PLSA

Engineering & Surveying

REMEDIAL INVESTIGATION REPORT

Tidrick's Quality Transmission
1802 South 1st Street
Yakima, Washington 98903

FS ID No. 543; CU ID No. 6497

May 26, 2015
PLSA Project No. 14006

Prepared for:

Washington State Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, WA 98902

Table of Contents

INTRODUCTION

The objective of this Remedial Investigation (RI) is the evaluation of the nature and extent of contamination related to past land use practices and is based on evidence of chemical releases at the Tidrick's Quality Transmission Site. These practices were associated with automotive repair and service facilities and included the use of two drywells, one waste oil underground storage tank (UST), and two gasoline UST's.

1 PROPERTY LOCATION & DESCRIPTION

1.1 Site Location and Legal Description

Address: The subject property consists of a single tax parcel, located at 1802 South 1st Street Yakima, Washington, 98903. See Figure 1 for vicinity map.

Yakima County Tax Parcel's: 191331-11012

Latitude: 46° 34' 46 38.3988" N; **Longitude:** 120° 29' 32.0352" W

Legal Description: That portion of the Northwest ¼ of the Northwest ¼ of the Northeast ¼ of the Northeast ¼ of Section 31, Township 13 North, Range 19, E.W.M., described as follows: Beginning at the point of intersection of the South line of Mead Avenue and the Westerly line of State Road No. 3; thence Southeasterly along said Westerly line 300 feet; thence West parallel with the South line of Mead Avenue 249.2 feet; thence North 183.6 feet; thence West 1 foot; thence North to the South line of said Mead Avenue; thence East to the Point of Beginning.

1.1.1 Topography

The land surface on the property is nearly flat but was modified after demolition of building structures and the asphalt parking lot so that the average grade across the property is 1 to 2 feet below the adjacent intersection. Two commercial structures and a paved asphalt parking lot formerly existed on the property. Assessor records document that a building was constructed in 1935, presumably the main building, and the associated smaller building was built in 1940. In December 2013 and January 2014, the two buildings and the asphalt pavement were demolished and removed from the property. Previous to demolition, the land surface was generally level.

1.1.2 Hydrology

Groundwater - The Yakima Valley, being a part of the Columbia Basin Plateau, also contains several productive aquifers in the interbeds between the various basalt flows that make up the Columbia River Basalt Group. The average groundwater gradient of the various aquifers varies in direction and distance below ground surface, and with respect to irrigation seasons; but is generally toward the Yakima River which is located several miles southeast. Contamination plumes, should they exist in the groundwater, would likely migrate in that direction. Depth to groundwater in the unconfined aquifer is relatively shallow.

Surface Water -The Yakima River is located greater than a mile east of the property.

1.1.3 Geology & Soil

General and specific information regarding surface and subsurface conditions at the site are available from several sources. General soils data is given in the U.S. Soil Conservation Service (SCS) publication entitled Soil Survey of Yakima County Area, Washington. These sources present generally consistent findings regarding subsurface conditions. The site consists of up to a 3 foot thick surface layer of silty sand overlying a deep stratum of native sand and gravel that extends to groundwater that can be observed at a depth of 12 to 14 feet below the ground surface. The Unified Soil Classification System (USCS) of the native topsoil is GW.

100 0 100 FEET

SCALE: 1" = 100'

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FIGURE 1 - VICINITY MAP
1802 SOUTH 1st STREET
YAKIMA, WASHINGTON

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2 SITE BACKGROUND

The following narrative is derived from records stored at the Washington State Department of Ecology (Ecology) and personal recollection of Brad Card, Senior Engineer for PLSA: From early 1960's to 1978 it was the location of the Al Lundgren Volkswagen/Porsche dealership. In 1979 it was the location of a Kubota tractor dealership. At the time of Ecology's first initial investigation, the site was identified as Carlos Motors, Inc., a used car dealership specializing in detailing older model cars.

On July 21, 1992, Ecology received a complaint of oil dumping on the site. Upon completing its preliminary investigation, Ecology concluded that a release had occurred and notified the property owner of a further action determination. Prior to the performance of a site hazard assessment, Carlos Motors was replaced by Tidrick's Quality Transmission as the business entity operating at this address. According to local telephone directories, Tidrick's Quality Transmission was listed at this address beginning about November 1993. Two drywells and three USTs existed on the property in conjunction with these businesses. The length of time the drywells and USTs were in use is unknown; however, the drywells were active for at least 20 years. The Site Hazard Assessment completed in 1994 yielded a site ranking of "1".

In May 1994, limited soil sampling performed during the site hazard assessment confirmed releases in the vicinity of the two drywells and the waste oil UST (Figure 2). In September of that year, Cayuse Environmental (Cayuse), an environmental consulting company hired by the former property owner, decommissioned the three USTs on the site. Cayuse also initiated an independent remedial action in association with the removal of one of the two drywells (south drywell) and the release from the waste oil UST. The interim action consisted of petroleum-contaminated soil removal.

In October and November 1994, the scope of the interim action was expanded in the areas surrounding the waste oil UST and the south drywell. The scope of work also included remedial action to address soil contamination in the north drywell. Approximately 700 tons of petroleum contaminated soils (PCS) were reported to have been removed and disposed at the former Rabanco landfill in Roosevelt. No receipts or other supporting documentation are known to exist to verify the removal and proper disposal of the PCS.

Ecology review of the remedial action report concluded that the site characterization was incomplete due to the lack of sufficient (characterization and confirmation) analysis for the type and nature of the known contamination. Analyses of the soil initially excavated in the vicinity of the waste oil UST and the north drywell exhibited concentrations of chlorinated solvents including tetrachloroethene (PCE) and trichloroethene (TCE) above Model Toxics Control Act (MTCA) Method "A" soil cleanup levels (CUL). Although soil had been over excavated in the vicinity of the waste oil UST and the two drywells, no analyses for chlorinated solvents were performed on the soil confirmational samples. Additionally, an undetermined quantity of PCS was reportedly left intact under the former garage/paint shop building (west building) during removal of the north drywell.

In March 2007, the site underwent a second Toxics Cleanup Program (TCP) initial investigation in conjunction with a Dangerous Waste Compliance inspection by the Hazardous Waste and Toxics Reduction Program. The joint investigations were prompted by visible evidence of improper storage and handling of generated waste streams. Numerous examples of releases to the ground were documented with photographic evidence that showed impact to the environment including conveyance to the stormwater drain. The business operating on the site at that time was Tidrick's Quality Transmission.

During the TCP initial investigation, limited soil sampling was performed in the shallow subsurface. Two grab samples were collected and analysis of both samples showed heavy oil and lead concentrations that exceeded their respective MTCA Method A soil cleanup levels.

3 PRIOR SITE INVESTIGATION

3.1 Soil Investigation

In September 1994, Cayuse performed a site assessment with the removal of three USTs and initiated the removal of contaminated soils from releases at the waste oil UST and the south drywell. In October and November of that year, Cayuse expanded the scope of work to assess the north drywell and to excavate contaminated soils from the waste oil UST area and the two drywells. No other remedial actions were conducted on the Site with the exclusion of the limited soil sampling during the second initial investigation by Ecology.

3.1.1 Sampling Deficiencies

The site assessment and interim soil removal action presented many deficiencies in site characterization and post-removal soil confirmational sampling.

3.1.1.1 Gasoline UST Removal

The two USTs located at the north portion of the site were listed as gasoline USTs but little or no detail is known concerning whether the tanks had contained other chemicals such as heating oil. Upon removal of these two tanks, Cayuse reported there were no obvious signs of release based on the appearance of the tanks. Three confirmational soil samples were obtained from each tank cavity, two from the sidewalls and one at the bottom of the excavation at a maximum depth of five feet below ground surface (bgs). The soil samples were analyzed for gasoline-range organics by WTPH-G and lead by EPA Method 6010. Based on these analyses there were no signs of gasoline releases from the USTs; however, the required UST site assessment testing should have routinely included analysis for volatile organic compounds (benzene, ethylbenzene, toluene, and xylenes or BTEX).

3.1.1.2 Fuel Distribution Lines

The report did not describe any removal of piping system or associated dispensers. The report also did not document investigation of the fuel distribution piping system associated with both gasoline USTs. According to the *Guidance on Site Checks and Site Assessments for Underground Storage Tanks* (February 1991), soil samples should have been obtained to assess the dispenser and piping areas for all required analyses.

3.1.1.3 Waste Oil UST

The initial soil samples obtained from the waste oil UST area and two drywells were analyzed by WTPH-418.1. The shortcoming of this analytical method is that it does not identify the type of petroleum hydrocarbon in the sample but yields only a total recoverable petroleum hydrocarbon value. Analyses should have been performed to identify the specific types of petroleum hydrocarbons potentially present in the waste oil mixture or possibly disposed through the drywell system. The confirmational samples are compliant for petroleum hydrocarbons if the contamination was diesel-range or heavy oil-range hydrocarbons. If gasoline-range organics were present, the confirmational samples were not in compliance. The appropriate analyses would have included WTPH-HCID and where petroleum hydrocarbons were identified as present, quantified through WTPH-Gx or WTPH-Dx, respectively. The soil excavation depths for cleanup at each of the drywells and the waste oil UST area should have been dictated by the type and nature of the contamination.

3.1.2 Analysis Deficiencies

3.1.2.1 Chlorinated Solvents and other Volatile Organic Compounds

The site characterization in 1994 was inadequate since the required testing was not performed or only a portion of the analytical results were reported to Ecology. A limited number of initial soil samples from the waste oil UST area and the south drywell area were analyzed by EPA Method 8260 but the laboratory report only shows the analysis as a chlorinated solvent scan and does not list detections or concentrations of benzene, toluene, ethylbenzene, or xylenes as constituents that were assessed. The samples from these two areas should have been screened for BTEX with the analytical results listed in the laboratory report. Detections of these constituents would have yielded information potentially indicative of a release containing fresh or less weathered gasoline to supplement hydrocarbon identification analysis if it had been conducted.

Other appropriate soil analysis should have included EPA Method 8270 to assess semi-volatile organics including such possible contaminants as naphthalene and carcinogenic polyaromatic hydrocarbons (cPAHs). Only one sample from the waste oil UST (#9422-09) and one sample from the south drywell (9422-12) were assessed via Method 8270. Analysis of both samples showed values of naphthalene near the compliance level for protection of groundwater for drinking water purposes; however, the values were flagged as estimates.

Soil samples taken from the north drywell area were only analyzed for petroleum hydrocarbons by WTPH-418.1 Modified. Other analytical methods to screen for potential constituents in a waste mixture were not performed on these samples. According to the notes associated with MTCA Table 830-1, the waste oil category applies to unknown petroleum products and mixtures of petroleum and nonpetroleum substances. As such, testing is required in a sufficient number of samples to determine whether a possibly associated chemical is present at concentrations of concern.

In 2007, an additional but very limited investigation was performed to assess surface contamination due to poor business housekeeping practices associated with the historical land use. Two grab samples of soil were collected from the shallow subsurface at a depth of three to six inches bgs. One soil sample was collected near the south fence line in the vicinity of the southwest corner of the property. This sample exhibited a concentration of lube oil at 2,200 mg/kg. Analysis for chlorinated solvents was also conducted but the results were reported as estimates or as non-detections. Metals analyses were not performed on this sample. The other grab sample of soil is described in the next section (Metals).

The confirmational analyses for the areas where soil was removed also did not account for chlorinated solvents and possibly other contaminants although the initial sampling showed concentrations of several chlorinated solvents in soil above Method A compliance levels. Subsequent analysis for chlorinated solvents following soil removal was not conducted nor were required screening analyses under MTCA Table 830-1 performed. Analyses including EPA Method 8260 and 8270 will be performed to screen for possible constituents that have the potential to migrate due to high solubility.

3.1.2.2 Metals

The initial soil samples obtained from the waste oil UST as well as two samples from the south drywell were analyzed for metals; however, the soil samples were prepared by a leaching method typically used with waste profiling for disposal purposes. The laboratory analytical sheets indicated that EPA Method 1311 (TCLP) was used prior to analysis of the samples by EPA Method 6010. MTCA does allow for the derivation of soil concentrations protective of groundwater based on a leaching test. Per WAC 173-340-747(7), these analytical results are appropriate when determining

the leachability of contaminants from a soil sample and to evaluate the soil leaching to groundwater pathway. For the soil concentrations to be protective of groundwater, the leaching test effluent concentrations shall be less than or equal to ten (10) times the applicable groundwater cleanup level established under WAC 173-3470-720. The analytical results showed that three of the soil samples failed the leaching test (Sample Nos. 9422-7, 9422-8 and 9422-12) for lead.

The direct contact exposure pathway should also have been evaluated at that time by performing EPA Method 6000 or 7000 series to determine contaminant concentrations in comparison to MTCA Method A or Method B CUL. Assessment of the direct contact exposure pathway would not include EPA Method 1311 as a sample preparatory method prior to analysis.

During the limited site investigation in 2007, only one of the two grab samples of soil was analyzed for metals along with NWTPH-Dx. Analytical results showed that the sample obtained along the east wall near the southeast corner of the garage/paint shop (west building) had exceedances of lead (480 mg/kg) and lube oil (6,300 mg/kg).

In any event, the soil sampling for characterization and cleanup confirmational sampling were insufficient to determine if the soil concentrations were protective of human health for either of the two applicable exposure pathways for metals. Consequently, confirmational sampling and analysis for metals is required at the following areas: near the former waste oil UST, the north and south drywells, and the area where the PCS was left intact under the building.

4 SCOPE OF CURRENT INVESTIGATION

4.1 Conceptual Site Model

All structures and paving were removed from the site prior to this investigation. To identify areas of the site that had the highest probability of the presence of residual contamination, PLSA reviewed sketches and narratives from previous investigations, and mapped past remedial activities on an aerial photograph of the site where structures and other benchmarks were visible. Soil sampling locations and depths are illustrated in Figure 2. Once sampling locations were identified, PLSA surveyors staked the locations in the field.

A similar methodology was used to assess and locate appropriate locations to install groundwater monitoring wells. Figure 3 shows the location of three monitoring wells relative to former site features and provides specific horizontal and vertical data for each well. Groundwater from the wells was sampled on June 6, 2014 when groundwater flow would potentially be affected by recharge from regional irrigation and then sampled again on November 20, 2014 well after regional irrigation practices had been suspended.

The investigation described above was established to address data gaps in the previous investigation. Based on previous investigation elements deemed reliable, current field observations, field screening, and analytical data, PLSA developed a revised Conceptual Site Model (CSM).

4.2 Cleanup Levels

Typically, the appropriate cleanup levels for a site are determined by the nature and extent of contamination which includes fate and transport of the contaminants, media impacted, and exposure pathways. Soil and groundwater samples at this site were generally evaluated using Method A cleanup levels for unrestricted land use. The Method A cleanup levels for many contaminants is generally established on protection of groundwater for drinking water uses. Consequently, the Method A cleanup levels for many contaminants tend to be more stringent than cleanup levels based solely on the direct contact exposure pathway.

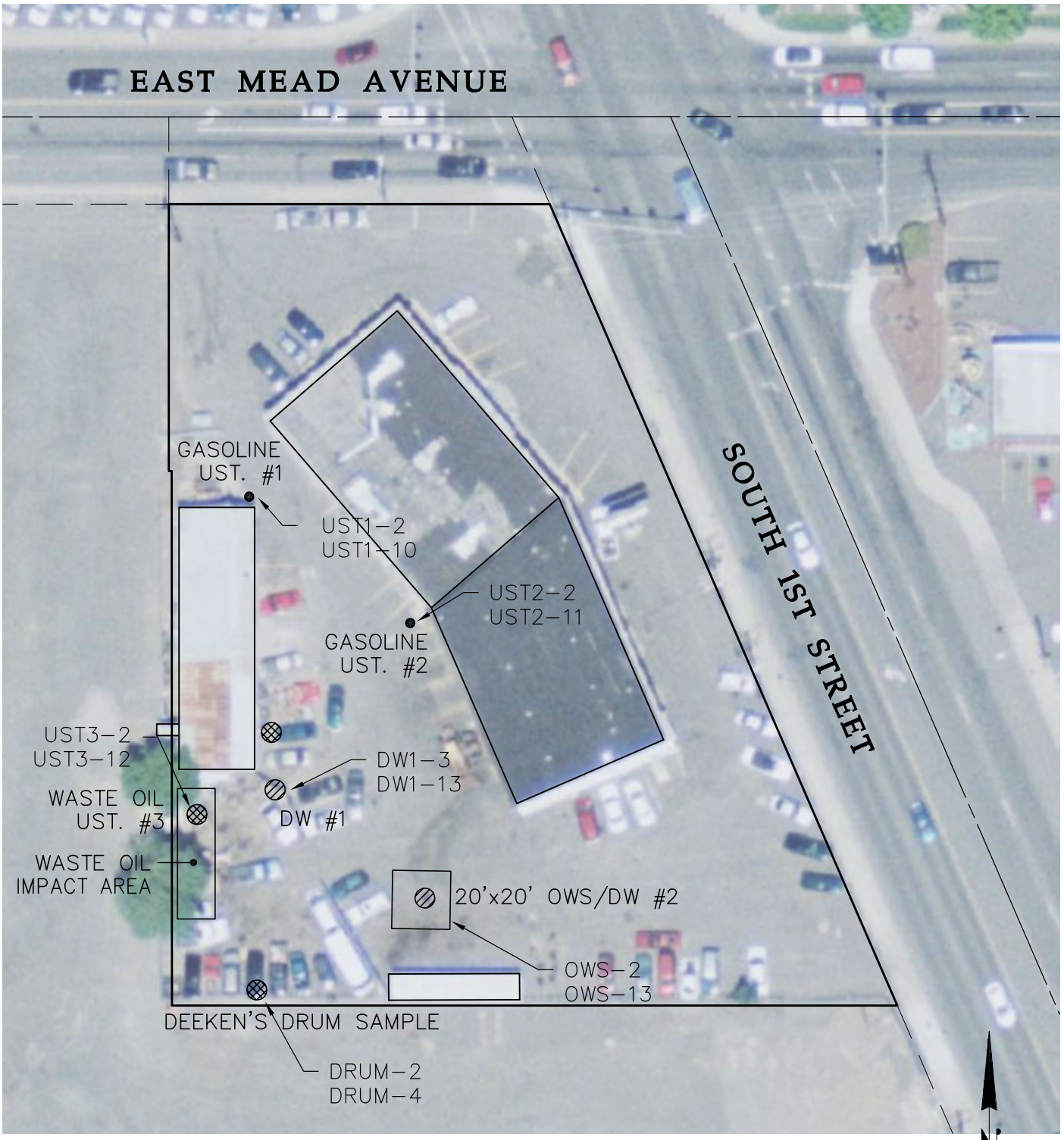
4.3 Field Investigation and Sampling

The site characterization consisted of soil sampling at six test pit locations (two soil samples taken from each location at varying depths) and groundwater sampling while groundwater flow was influenced by regional irrigation and again after regional irrigation was suspended for several weeks. In lieu of extensive soil sampling, installation of groundwater monitoring wells and limited soil sampling was approved to assess the site for current contamination. See Appendix “B” for a copy of Remedial Action Plan.

4.3.1 Soil

Soil was sampled July 8, 2014, at 6 key locations on the site. See Figure 2. Table 1 below summarizes sample descriptions, sample identification, and sample depth below the existing ground surface (bgs). An open pit was excavated at each of the mapped locations. Soil logs can be found in Appendix “A”. Soil was sampled at two depths in each excavation; one below but near the surface and the second at significant depth near the anticipated high groundwater depth.

Soil samples were analyzed for BTEX, Ethylene Dibromide (EDB), 1, 2-Dichloroethane (EDC), MTBE, Carcinogenic Polycyclic Aromatic Hydrocarbons, Naphthalene’s, PCB’s, Halogenated



TYPICAL SAMPLE ID UST1 -2

LOCATION

DEPTH BELOW GRADE IN FEET

50 0 50 FEET

SCALE: 1" = 50'

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FIGURE 2 - SOIL SAMPLE LOCATION MAP
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YAKIMA, WASHINGTON

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Volatile Organic Compounds, Cadmium, Chromium, Nickel, and Zinc. Tables 2A thru 2B found in the following pages summarize the analytical results.

Cayuse Environmental reported that petroleum contaminated soil was left in place near the south end of the west building; however the Cayuse report contained several inconsistencies and was deficient in site characterization.

During the current field investigation PLSA did not find visual, olfactory or other field evidence of remaining petroleum contamination. Soil observed, throughout the entire depth of each excavation, was free of discoloration and odor. Field screening, during the investigation, with a PID did not identify petroleum contamination in any of the locations investigated.

4.3.2 Groundwater

Three monitoring wells were installed by air rotary drilling. Locations of the monitoring wells are indicated on the site diagram (See Figure 3) and are based, in part, on the former source areas. The up-gradient well is located at the northwest corner of the property and down gradient wells were located near the location of suspected releases, at the south end of the site. The up-gradient well was installed to assess potential off-site contribution of chlorinated solvents and associated daughter products.

4.3.2.1 Well Construction

Construction and specifications of the monitoring wells followed the requirements as stated in Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Wells) and the commonly accepted industry standards for installation of wells that produce representative groundwater samples. The well casing consists of 2-inch diameter Schedule 40 polyvinyl chloride (PVC). The screen consists of a five foot section having 10 slot (0.010 inch) openings flush threaded with riser. The filter pack consists of *10/20* silica sand deposited from the bottom of the screen to one foot above the top of the screen. The remainder of the annulus space is filled with *3/8* inch bentonite chips to the bottom of a steel casing that has a flush-mounted well monument set in a finished concrete base.

The project schedule for monitoring well compliance sampling was based on the completion of well development. The wells were developed by surge block and pumping until the fines had dissipated (water is clear). Well construction was monitored continuously by engineers from PLSA. Soil samples were not obtained due to the gravelly/cobbly nature of the substrate resulting from the air rotary drilling process. There were no visual or olfactory indications of contamination noted during the construction process. Drill cuttings did not display unusual odor or discoloration.

4.3.2.2 Groundwater (General Hydrology)

Depth to groundwater in the area is variable depending on the information source: Measured depth to groundwater in the three monitoring wells ranged from 14 to 15.5 feet below the ground surface (bgs). Based on the Yakima Railroad Area study, the groundwater fluctuation may be as much as two feet between low and high water. The same study shows groundwater in the shallow aquifer generally flows easterly or southeasterly, which was confirmed by our calculations.

4.3.2.3 Survey of Monitoring Well Location and Elevation

All monitoring wells were surveyed by PLSA, a licensed surveying firm. The horizontal locations of monitoring wells are measured to within 0.1 foot. See Figure 3 for "Monitoring Well Location Map". Monitoring well elevation measurements were measured to a reference point marked at the top of the PVC well casing to the nearest 0.01 foot relative to the North American Vertical Datum of 1988

PLSA PT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION		LATITUDE	LONGITUDE
				TOP COVER	TOP CASING		
500	MW1	453734.7605	1642285.7298	1022.54	1022.31	N46°34'39.31628"	W120°29'33.24233"
501	MW2	453572.2072	1642319.0019	1021.43	1021.12	N46°34'37.71155"	W120°29'32.76622"
502	MW3	453512.5178	1642383.6653	1020.33	1019.93	N46°34'37.12225"	W120°29'31.84059"

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FIGURE 3 - MONITORING WELL LOCATION MAP
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(NAVD88). Water levels are measured to within 0.01 foot from this reference point on the casing. Horizontal datum conforms to the North American Datum of 1983, updated in 1991 (NAD83 (1991)).

4.3.2.4 Monitoring Well Sampling & Analysis

Groundwater was found at approximately 15 feet bgs. Groundwater static level was measured and recorded and groundwater samples were collected for the required analyses. The entire suite of analyses for waste oil was performed on these samples to determine if impact had occurred.

Initially, groundwater sampling of the monitoring wells was to conform to the guidelines set forth in the *Guidance on Remediation of Petroleum Contaminated Sites* where the initial groundwater sampling results dictate the required frequency of sampling (Stage 1, 2 or 3). However, since this site exists within the Yakima Railroad Area, provision was allowed for deviation from the guidance with regard to frequency of groundwater sampling and with focus on the source and downgradient wells.

Prior to sampling, the field personnel coordinated with the laboratory to ensure sampling protocols including recommended sample volume, holding times, and proper storage.

Groundwater elevation measurements were recorded from each well prior to sampling. The groundwater levels were measured to within 0.01 foot from the reference point on the casing. Based on groundwater elevations and surveyed coordinates of the wells groundwater flow was calculated to be south-southeast. Flow direction did not change appreciably from the influence to groundwater recharge from irrigation.

Groundwater was collected using a low-flow submersible pump and was unfiltered as recommended, to facilitate analysis for organic compounds. Samples were observed to be clear and had no discernable turbidity. The samples were odorless and exhibited no other evidence of contamination.

Per the work plan, groundwater samples were to be collected and analyzed for the following: petroleum hydrocarbons, volatile petroleum compounds (BTEX), fuel additives and blending compounds (MTBE, EDB, EDC), carcinogenic PAHs, naphthalene, metals (cadmium, chromium, nickel, zinc, and lead), PCBs, and halogenated VOCs.

Groundwater samples analyzed for petroleum hydrocarbons were initially analyzed with NWTPH-HCID, and then quantified by NWTPH-Gx, NWTPH-Dx as necessary. Although, NWTPH-HCID is a qualitative and semi-quantitative procedure the Department of Ecology Publication ECY 97-602 **Analytical Methods for Petroleum Hydrocarbons** states that "it can be used to eliminate the need for further analysis for those samples which demonstrate TPH levels significantly below regulatory limits". Analytical results may be found in **Appendix C.**

4.3.2.5 Hydraulic Gradient

Groundwater depths at the wells were measured, prior to purging and sampling, for the determination of the direction of groundwater flow. Measurements were made in June during peak potential for groundwater to be influenced by seasonal irrigation and again in late November well after irrigation systems had been turned off. Calculations showed that in both cases flow was consistently to the south-southeast. In June 2014 groundwater flow direction was calculated to be on a bearing of 174 degrees at an average elevation of 1006.79 feet above mean sea level (MSL). In November the direction of flow was calculated to be 170 degrees at an average depth of 1007.01. Groundwater flow did not show significant deviation due to recharge from seasonal irrigation.

4.3.2.6 Management of Investigative Wastes

Regulated investigation derived wastes (IDW) such as soil cuttings generated during drilling and sampling activities were containerized in 55-gallon, US Department of Transportation (DOT)

approved drums. Decontamination water and purge water from the groundwater monitoring wells was stored in the same 55-gallon DOT-approved drums. Subsequent groundwater analytical results found that groundwater removed from wells contained concentrations of PCE that exceed permissible levels for on-site disposal. PLSA will coordinate IDW disposal and provide supporting documentation of appropriate disposal within 90 days of acceptance of the R.I. Report.

4.3.2.7 Groundwater Monitoring Well Decommissioning

The groundwater monitoring wells will be decommissioned per Chapter 173-160 **WAC (Minimum Standards for Construction and Maintenance of Wells)** only after receiving written approval from Ecology

4.3.3 Air

Several organic chemicals were detected in the groundwater samples obtained for the monitoring wells. The dissolved concentration of these chemicals is one criterion on whether these chemicals pose a concern for vapor intrusion. The concentrations of tetrachloroethene (PCE) quantified in the groundwater samples were within vapor intrusion screening levels since the groundwater screening level for tetrachloroethene is 22.9 µg/L. Although the concentration of Cis-1,2-Dichloroethylene in groundwater was quantified, this chemical was removed from the vapor intrusion screening list because there are no toxicity values as part of the Cleanup Levels and Risk Calculations (CLARC) under the Model Toxics Control Act.

Chloroform was also detected. Chloroform is widespread throughout the Yakima Railroad Area (YRRA). However, the source of the chloroform is unknown. Chloroform is known to be a disinfection by-product commonly produced during chlorination of water supplies and wastewater (Ivahnenko and Zororski, 2006).

Although Cis-1,2-Dichloroethylene and chloroform may present a potential vapor intrusion hazard, the evaluation of these chemicals is beyond the scope of this investigation.

5 ANALYTICAL RESULTS SUMMARY

5.1 Soil

Analytical results for analytes with concentration exceeding MTCA Method "A" level are limited to total chromium. Results are summarized in Tables 2A – 2D on the following pages. Complete Laboratory Analytical Results may be found in Appendix D.

Chromium concentrations exceed the MCTA Method "A" cleanup level of 19 mg/kg for hexavalent chromium. Follow up analysis to determine chromium speciation was not performed to identify if any of the concentration of the total chromium is hexavalent chromium. For comparison, Method "B" cleanup levels are shown. Table 3 lists Method "B" CUL.

Exposure Type	Chromium III Method "B" Soil Clean Limit (mg/kg)	Chromium VI Method "B" Soil Clean Limit (mg/kg)
Ingestion Only	120,000	240
Ingestion +Dermal	45,000	128

Table 3: Method B CUL for Chromium.

The reported concentrations of total chromium, found in the soil samples, are below the MTCA Method "B" soil cleanup level for either form of chromium; however, these values are applicable to non-carcinogenic effects. Information for carcinogenic effects was not available.

Given that some of the soil samples were obtained from what is considered fill material, e.g., near the former gasoline UST areas, then it is reasonable to assume the values for total chromium are representative of chromium III. As reported in the Ecology publication, "Natural Background Soil Metals Concentrations in Washington State", the concentration of chromium in the soil samples is approximately one-half of the background concentration (38 mg/kg) for Yakima. These multiple lines of evidence suggest that hexavalent chromium is not a chemical of concern at this site. However, only additional chemical analysis will conclusively show that hexavalent chromium is not present as explained in the footnotes to Table 740-1 (Method A Soil Cleanup Levels for Unrestricted Land Uses), Model Toxics Control Act.

For the carcinogenic polyaromatic hydrocarbons (cPAHs), the total toxicity equivalence (TTEC) concentration was calculated to obtain the equivalent concentration of benzo(a)pyrene. The soil sample showing the highest concentrations of cPAHs was used to calculate the TTEC. The result demonstrates that the soil concentration of cPAHs is within the regulatory compliance levels for MTCA. See Appendix E for calculations.

Analytical results, field screening, and field observations did not indicate the presence of other soil contaminants above regulatory levels.

Table 2A
Soil Analytical Result Summary
Tidrick's
1802 South 1st Street
Yakima Washington

			Total Petroleum Hydrocarbons			Volatile Petroleum Hydrocarbons				
Sample ID.	Depth (ft.)	Sample Date	TPH-GRO	TPH-DRO	TPH-HRO	Benzene	Touene	Ethyl-benzene	Total Xylenes	Total Naphthalene
OWS-2	2	7/8/2014	--	--	--	ND	ND	ND	ND	ND
OWS-13	13	7/8/2014	--	--	--	ND	ND	ND	ND	ND
UST1-2	2	7/8/2014	--	--	--	ND	ND	ND	ND	ND
UST1-10	10	7/8/2014	--	--	--	ND	ND	ND	ND	ND
UST2-2	2	7/8/2014	--	--	--	ND	ND	ND	ND	ND
UST2-11	11	7/8/2014	--	--	--	ND	ND	ND	ND	ND
UST3-2	2	7/8/2014	--	--	--	ND	0.0333	ND	0.032	0.0389
UST3-12	12	7/8/2014	--	--	--	ND	ND	ND	ND	ND
DRUM-2	2	7/8/2014	--	--	--	ND	ND	ND	ND	ND
DRUM-14	14	7/8/2014	--	--	--	ND	ND	ND	ND	ND
DWI-3	3	7/8/2014	--	--	--	ND	ND	ND	ND	ND
DWI-13	13	7/8/2014	--	--	--	ND	ND	ND	ND	ND
MTCA Method A Cleanup Levels			30/100	2,000	2,000	0.03	7	6	9	5
Analytical Method			NWTPH-Gx	NWTPH-Dx		EPA 8260B				EPA 8270D

All data and CUL reported in mg/kg
GRO = Gasoline Range Oraganics DRO = Diesel Range Organics HRO = Heavy Oil Range Organics
GRO MTCA Method A cleanup levels are 30 mg/kg if benzene is present and 100mg/kg if benzene is not present.
(-)= No Analysis Performed ND = Not Detected

Table 2B
Soil Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

			Chloronated Compounds:								
Sample ID.	Depth (ft.)	Sample Date	Tetrachloro-ethene	Trichloro-ethene	1,1,1-trichloro-ethane	Methylene chloride	Vinyl chloride	Chloroform	Cis-1,2-dichloro thene	Acetone	Trans-1,2-dichloro-ethene
OWS-2	2	7/8/2014	0.0130	ND	ND	ND	ND	ND	ND	ND	ND
OWS-13	13	7/8/2014	0.0156	ND	ND	ND	ND	ND	ND	ND	ND
UST1-2	2	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST1-10	10	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST2-2	2	7/8/2014	0.00647	ND	ND	ND	ND	ND	ND	ND	ND
UST2-11	11	7/8/2014	0.00567	ND	ND	ND	ND	ND	ND	ND	ND
UST3-2	2	7/8/2014	0.0427	ND	ND	ND	ND	ND	ND	ND	ND
UST3-12	12	7/8/2014	0.00783	ND	ND	ND	ND	ND	ND	ND	ND
DRUM-2	2	7/8/2014	0.0104	ND	ND	ND	ND	ND	ND	ND	ND
DRUM-14	14	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWI-3	3	7/8/2014	0.00574	ND	ND	ND	ND	ND	ND	ND	ND
DWI-13	13	7/8/2014	0.00674	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Method A Cleanup Levels:			0.05	0.03	2	0.02	-	-	-		
Analytical Method			EPA 8260B								

All data and CUL reported in mg/kg

Table 2C
Soil Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

			Metals				
Sample ID.	**Depth (ft.)**	**Sample Date**	**Cadmium**	**Zinc**	**Nickel**	**Lead**	**Chromium**
OWS-2	2	7/8/2014	0.8900	151	21.6	123	**21.7**
OWS-13	13	7/8/2014	ND	48.6	13.9	3.31	17
UST1-2	2	7/8/2014	ND	49.6	13.4	3.51	14.7
UST1-10	10	7/8/2014	ND	45.4	14.2	16.7	17.5
UST2-2	2	7/8/2014	ND	68	17.6	5.01	18.9
UST2-11	11	7/8/2014	ND	52.6	16.1	3.16	**21**
UST3-2	2	7/8/2014	0.5950	138	18.6	153	**21**
UST3-12	12	7/8/2014	ND	56	17.4	19.2	**19.1**
DRUM-2	2	7/8/2014	ND	72	19.2	5.67	**20.6**
DRUM-14	14	7/8/2014	ND	62	14.1	25.8	16.1
DWI-3	3	7/8/2014	ND	62.2	17.2	4.97	**19.9**
DWI-13	13	7/8/2014	ND	68.7	18.7	49.3	**20**
MTCA Method A Cleanup Levels:			2	-	-	250	19/2,000
Analytical Method			EPA 8260B				

Chromium MTCA Method A CUL = 19 mg/kg if Chromium VI, if Chromium III CUL is 2,000 mg/kg
See Table 3 for Method B CUL Values.
All data and CUL reported in mg/kg

Table 2D
Soil Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

			Carcinogenic Polyaromatic Hydrocarbons (cPAHs)								
Sample ID.	**Depth (ft.)**	**Sample Date**	**Benzo(a) pyrene**	**Benzo(a) anthracene**	**Benzo(b) fluoranthene**	**Benzo(k) fluoranthene**	**Chrysene**	**Dibenzo(a,h) anthracene**	**Indeno (1,2,3cd) pyrene**	**Total cPAHs**	**Total Polychlorinated biphenyl (PCB)**
OWS-2	2	7/8/2014	ND	0.0186	0.0122	ND	ND	ND	0.0124	0.0432	ND
OWS-13	13	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST1-2	2	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST1-10	10	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST2-2	2	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST2-11	11	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
UST3-2	2	7/8/2014	ND	0.0237	ND	ND	0.0106	ND	ND	0.0343	ND
UST3-12	12	7/8/2014	ND	ND	ND	ND	0.0112	ND	ND	0.0112	ND
DRUM-2	2	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
DRUM-14	14	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWI-3	3	7/8/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND
DWI-13	13	7/8/2014	ND	0.0139	ND	ND	ND	ND	ND	0.0139	ND
MTCA Method A Cleanup Levels:			**See Total cPAHs**							**0.1**	**1**
Analytical Method			EPA 8270D								EPA 8082

All data and CUL reported in mg/kg

5.2 Groundwater

Based on the recommended analytical procedure (See 5.3.2.4), NWTPH-HCID was used to substantiate or eliminate the need for further analysis. Petroleum hydrocarbons were not detected in any of the groundwater samples. No further analysis for petroleum hydrocarbons is warranted. No other contaminants of concern were found to exceed MTCA Method "A" Values for groundwater.

Tables 4A thru 4D on the following pages summarize the groundwater analytical results. Complete Laboratory Analytical Results may be found in Appendix D.

Table 4A
Grounwater Analytical Result Summary
Tidrick's
1802 South 1st Street
Yakima Washington

				Total Petroleum Hydrocarbons			Volatile Petroleum Hydrocarbons				
Well ID./Date	TOC (ft.)	DTW (ft.)	GWE (ft.)	WATPH-HCID GASOLINE	WATPH-HCID DIESEL	WATPH-HCID LUBE OIL	Benzene	Touene	Ethyl-benzene	Total Xylenes	Total Naphth-alene
MW-1											
6/23/2014	1022.31	15.15	1007.16	--	--	--	--	ND	ND	ND	ND
11/20/2015	1022.31	14.95	1007.36	--	--	--	--	--	--	--	--
MW-2											
6/23/2014	1021.12	14.46	1006.66	--	--	--	ND	ND	ND	ND	ND
11/20/2014	1021.12	14.22	1006.90	< 250	< 630	< 630	ND	ND	ND	ND	ND
MW-3											
6/23/2014	1019.93	13.40	1006.53	--	--	--	ND	ND	ND	ND	ND
11/20/2014	1019.93	13.15	1006.78	< 250	< 630	< 630	ND	ND	ND	ND	ND
MTCA Method A Cleanup Levels				800/1,000	500	500	5	1,000	700	1,000	160
Analytical Method				NWTPH-Gx	NWTPH-Dx		EPA 8260B				8270C

All data and CUL reported in µg/L
GRO MTCA Method A cleanup levels are 800 µg/kg if benzene is present and 1,000 µg/kg if benzene is not present.
(-)= No Analysis Performed ND = Not Detected

Table 4B
Groundwater Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

				Chloronated Compounds:								
Well ID./Date	**TOC (ft.)**	**DTW (ft.)**	**GWE (ft.)**	**Tetrachloro-ethene (PCE)**	**Trichloro-ethene (TCE)**	**1,1,1-trichloro-ethane (1,1,1-TCA)**	**Methylene chloride**	**Vinyl chloride**	**Chloroform**	**Cis-1,2-dichloro-ethene**	**Acetone**	**Trans-1,2-dichloro-ethene**
MW-1												
6/23/2014	1022.31	15.15	1007.16	1.02	ND	ND	ND	ND	2.70	ND	ND	ND
11/20/2014	1022.31	14.95	1007.36	--	--	--	--	--	--	--	--	--
MW-2												
6/23/2014	1021.12	14.46	1006.66	2.00	ND	ND	ND	ND	2.74	ND	ND	ND
11/20/2014	1021.12	14.22	1006.90	2.46	ND	ND	ND	ND	3.00	1.10	ND	ND
MW-3												
6/23/2014	1019.93	13.40	1006.53	1.73	ND	ND	ND	ND	2.57	ND	ND	ND
11/20/2014	1019.93	13.15	1006.78	2.23	ND	ND	ND	ND	2.79	ND	ND	ND
MTCA Method A Cleanup Levels:				5	5	200	5	0.2	-	-	-	-
Analytical Method				EPA 8260B								

All data and CUL reported in µg/L

Table 4C
Groundwater Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

				Metals				
Well ID./Date	**TOC (ft.)**	**DTW (ft.)**	**GWE**	**Cadmium**	**Zinc**	**Nickel**	**Lead**	**Chromium**
MW-1								
6/23/2014	1022.31	15.15	1007.16	ND	ND	ND	ND	ND
11/20/2014	1022.31	14.95	1007.36	--	--	--	--	--
MW-2								
6/23/2014	1021.12	14.46	1006.66	ND	ND	ND	ND	ND
11/20/2014	1021.12	14.22	1006.90	--	--	--	--	--
MW-3								
6/23/2014	1019.93	13.40	1006.53	ND	1.16	1.53	ND	ND
11/20/2014	1019.93	13.15	1006.78	--	--	--	--	--
MTCA Method A Cleanup Levels:				5	-	-	15	50
Analytical Method				EPA 6020A				

All data and CUL reported in µg/L

Table 4D
Groundwater Analytical Results Summary
Tidrick's
1802 South 1st Street
Yakima Washington

				Carcinogenic Polyaromatic Hydrocarbons (cPAHs)								
Well ID./Date	**TOC (ft.)**	**DTW (ft.)**	**GWE (ft.)**	**Benzo(a) pyrene**	**Benzo(a) anthracene**	**Benzo(b) fluor anthene**	**Benzo(k) fluor anthene**	**Chrysene**	**Dibenzo(a,h) anthracene**	**Indeno (1,2,3cd) pyrene**	**Total cPAHs**	**Total Polychlorinated biphenyl (PCB)**
MW-1												
6/23/2014	1022.31	15.15	1007.16	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/20/2014	1022.31	14.95	1007.36	-	-	-	-	-	-	-	-	-
MW-2												
6/23/2014	1021.12	14.46	1006.66	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/20/2014	1021.12	14.22	1006.90	-	-	-	-	-	-	-	-	-
MW-3												
6/23/2014	1019.93	13.40	1006.53	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/20/2014	1019.93	13.15	1006.78	-	-	-	-	-	-	-	-	-
MTCA Method A Cleanup Levels:				**See Total cPAHs**							**0.1**	**1**
Analytical Method				EPA 8270C SIM								EPA 8082

All data and CUL reported in µg/L

6 CONCLUSIONS

This investigation was performed by the PLP's agent, PLSA, to be consistent with the work plan. Soil and groundwater was sampled at locations with the high likelihood of residual contamination from past activities. Analytical results identified chromium concentrations in the soil that exceeded Method "A" values; however were well below Method "B" values and also below documented background concentrations for the area. Chromium was not found in the groundwater, demonstrating that the soil leaching to groundwater pathway is incomplete.

The Tidrick site resides within the Yakima Railroad Service Area (YRRA) which includes approximately 6 square miles known to have groundwater impacted by concentrations of tetrachloroethylene (PCE) exceeding MTCA method "A" CUL. PCE concentrations found in groundwater samples on the Tidrick site are below Method "A" CUL and were observed to be consistently present in all three wells, including the up gradient well. Offsite contribution appears to be occurring based on the groundwater concentrations observed in the upgradient well. This investigation did not yield evidence of current contamination although past contribution of contaminants to the environment from onsite activities was indicated by evidence from previous investigations.

7 REFERENCES

State of Washington Department of Ecology, *Guidance for Remediation of Petroleum Contaminated Sites,* Publication No. 10-09-057, September 2011.

State of Washington Department of Ecology, *Analytical Methods for Petroleum Hydrocarbons,* Publication No. ECY 97-602, June 1997.

State of Washington Department of Ecology, *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, Draft* Publication No. 09-09-047, October 2009.

(Ivahnenko and Zoroski, 2006, *Sources and Occurrence of Chloroform and Other Trihalomethanes in Drinking-Water Supply Wells in the United States, 1986-2001*. USGS Scientific Investigations Report 2006-5015,)

APPENDIX “A”

Test Pit Soil Logs & Photographs

PLSA ENGINEERING & SURVEYING
1120 WEST LINCOLN AVENUE
YAKIMA, WA 98902
509-575-6990

EXCAVATION LOG NO.: ***TP1***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Gasoline UST #2*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*SM*	*Silty Sand*	*Dry*
2			*			
3						
4						
5						
6				*GW*	*Sand & Gravel*	*Dry*
7						
8						
9						
10						*Moist at 10 ft.*
11			*		*Excavation Terminated at 11 ft. Due to Caving*	
12						
13						
14						
15						
16						

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YAKIMA, WA 98902
509-575-6990

EXCAVATION LOG NO.: ***TP2***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Drywell DW#1/ Deeken's Bldg Sammple*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*GW*	*8" Depth Crushed Gravel*	*Dry*
2 3 4 5 6 7 8 9 10			*	*GW/ GM*	*Silty Sand & Gravel*	*Dry / Fill*
11 12 13			 *	GW	*Sand & Gravel* *Excavation Terminated at 13 ft. Due to Caving*	*Moist at 12 ft.*
14 15 16						

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EXCAVATION LOG NO.: ***TP3***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Waste Oil UST #3*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*GW*	*8" Depth Crushed Gravel*	*Dry*
2 3 4 5 6			*	*GW/ GM*	*Silty Sand & Gravel*	*Fill / Dry*
7 8 9 10 11				*GW*	*Sand & Gravel*	*Dry*
12			*		*Excavation Terminated at 12 ft. Due to Caving*	*Moist @ 12 ft.*
13 14 15 16						

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YAKIMA, WA 98902
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EXCAVATION LOG NO.: ***TP4***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Deeken's Drum Sample Area*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*GW*	*8" Crushed Gravel*	*Dry*
2			*			
3				SM	Silty Sand	Dry Firm
4						
5						
6						
7						
8				*GW*	*Sand,Gravel, & Cobbles*	Gray Sand Dry
9						
10						
11						
12						
13						
14			*		Excavation Terminated at 14 ft. Due to Caving	Groundwater @ 14 ft.
15						
16						

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EXCAVATION LOG NO.: ***TP5***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Oil Water Separator /DW #2*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*SM*	*Silty Sand*	*Dry*
2 3			*	GW/ GM	Silty Sand & Gravel	Dry
4 5 6 7 8 9 10 11 12 13			 *	 *GW* 	 *Sand & Gravel* *Excavation Terminated at 13 ft. Due to Caving*	 *Dry* *Moist at 12 ft.*
14 15 16						

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EXCAVATION LOG NO.: ***TP6***

By: *SDG* **Date:** *7/8/2014*
Project No.: *14006* **Elevation:** *≈1026*
Location: *Gasoline UST #1*
Surface Conditions: *Weedy Gravel*

Depth (ft)	Moisture Content %	Unit Weight	Sample	UCS Symbol	Desription	Remarks
1				*GW/ GM*	*Silty Sand & Gravel*	*Dry*
2			*			
3						
4						
5						
6				*GW*	*Sand & Gravel*	*Dry*
7						
8						
9						
10			*		*Excavation Terminated at 10 ft. Due to Caving*	*Moist at 10 ft.*
11						
12						
13						
14						
15						
16						

Excavation at Oil Release area.

Soil cross section at DRUM sampling excavation.

Soil sampling at North Drywell/PCS area.

Excavation at North Drywell/PCS area.

Construction of upgradient monitoring well. (MW-1)

APPENDIX “B”

Field Reports

PLSA

ENGINEERING & SURVEYING

ENGINEERING FIELD REPORT

DATE:	6/18/14	**TIME:**		**PROJECT #:**	PLSA #14006
WEATHER:	SUNNY/WARM			**PROJECT DISC:**	MONITORING WELLS
LOCATION:	1802 SO. 1ST ST.., YAKIMA				
OWNER:	DEREK			**CONTRACTOR:**	MIKE ROBINSON
PRESENT:	BRAD CARD, DRILLING CREW				
WORK IN PROGRESS: WELL DRILLING, SOIL SAMPLING					

OBSERVATIONS:

Over the past two days, three monitoring wells were drilled and developed at the former Tidrick property located at 1802 South 1st Street, Yakima. Horizontal and vertical geographic locations are in the process of determination. Depth from the surface to groundwater is as follows: All depths are from the top of casing:

Well No. 1 -15.5 feet
Well No. 2 -15.0 feet
Well No. 3 -14.0 feet

Collection of ground water samples is scheduled for Monday, June 23, 2014.

Copies To: _____ Signed: Scott D. Sauland

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PLSA

ENGINEERING & SURVEYING

ENGINEERING FIELD REPORT

OWNER:	Derek & Associates	**FIELD REPORT:**	NA
PROJECT:	Mead & South 1st Sampling	**PROJECT #:**	PLSA # 14006
DATE:	06-23-2014	**WEATHER:**	Sunny 89 deg.
PRESENT:	Scott Garland, P.E.		
WORK IN PROGRESS:	Groundwater Monitoring Well Sampling.		

LOCATION:
Mead Avenue & South 1st Street, Southwest Corner.

OBSERVATIONS:
Groundwater from monitoring wells MW-1, MW-2, and MW-3 was sampled. Samples from MW-2 and MW-3 were delivered directly to Valley Environmental Lab for analysis by methods HCID an EPA 8260B. Sampling from MW-1 was optional. Sample will be save for future analysis if needed. Follow up analysis was specified should results of HCID require. Depth to groundwater was measured from the top of casing (TOC) at each well. The results of groundwater elevation determination is summarized in the table below.

Well ID.	Casing Elev. (Ft)	GW Depth Below TOC	GW Elev.
MW-1	1022.31	15.15	1007.16
MW-2	1021.12	14.46	1006.66
MW-3	1019.93	13.40	1006.53

Groundwater temperature was measured during purging. Initial groundwater temperatures were measured at 62° F. Water temperature stabilized at 60° F for 5 minutes prior to sampling. There was no visible turbidity, discoloration, and no odor.

By: Scott D Garland

PLSA

ENGINEERING & SURVEYING

ENGINEERING FIELD REPORT

DATE:	7/8/14	**TIME:**		**PROJECT #:**	PLSA #14006
WEATHER:	SUNNY/WARM			**PROJECT DISC:**	SOIL SAMPLING
LOCATION:	1802 SO. 1ST ST.., YAKIMA				
OWNER:	DEREK			**CONTRACTOR:**	TRI-VALLEY CONSTRUCTION
PRESENT:	SCOTT GARLAND, BRAD CARD, GREG HUYLAR				
WORK IN PROGRESS: SOIL SAMPLE EXCAVATION AND COLLECTION					

OBSERVATIONS:

Six locations identified in the Work Plan were excavated and sampled in accordance with the Plan. There was no visual or olfactory evidence of contamination in any of the excavations. Soil samples were collected in accordance with the Work Plan and submitted to Valley Environmental Laboratory for the analyses specified in the Work Plan.

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PLSA

ENGINEERING & SURVEYING

ENGINEERING FIELD REPORT

DATE:	7/29/14	**TIME:**		**PROJECT #:**	PLSA #14006
WEATHER:	SUNNY/WARM			**PROJECT DISC:**	SOIL SAMPLING
LOCATION:	1802 SO. 1ST ST.., YAKIMA				
OWNER:	DEREK			**CONTRACTOR:**	
PRESENT:	SCOTT GARLAND, JOHN MEFFORD, GREG HUYLAR				
WORK IN PROGRESS: SOIL SAMPLING RESULTS					

OBSERVATIONS:

On July 8, 2014, 12 soil samples were collected from test pits excavated on the premises and delivered to Valley Environmental Lab for analysis in accordance with the Work Plan. This is a continuation of the July 8 report for the purpose of including the analytical results which are attached.

Review of the analyses finds that of the parameters found in WAC 173-340 Table 720-1 were exceeded in only a five minor instances. In each case the cleanup level for chromium (19 mg/kg) was slightly exceeded. The Washington State Department of Ecology publication "Natural Background Soil Metals Concentrations in Washington State" reports that the 90 percentile background concentration for chromium in Yakima is 38 mg/kg. The highest concentrations of chromium found were approximately one half that of the background level for Yakima.

The sample number and chromium content of those samples exceeding cleanup level are listed as follows:

TP NO.	**Cr mg/kg**
UST2-11	21.
OWS-2	21.7
DRUM-2	20.6
UST3-12	19.1
DWI-13	20.0

The number suffix on the sample identification indicates sample depth in feet. All other analytical results were below Table 720-1 cleanup values.

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PLSA

ENGINEERING & SURVEYING

ENGINEERING FIELD REPORT

OWNER:	Derek & Associates	**FIELD REPORT:**	NA
PROJECT:	Mead & South 1st Sampling	**PROJECT #:**	PLSA # 14006
DATE:	11-20-2014	**WEATHER:**	Cloudy 34 deg.
PRESENT:	Scott Garland, P.E.		
WORK IN PROGRESS:	Groundwater Monitoring Well Sampling.		

LOCATION:
Mead Avenue & South 1st Street, Southwest Corner.

OBSERVATIONS:
Groundwater from monitoring wells MW-1, MW-2, and MW-3 was sampled. Samples from MW-2 and MW-3 were delivered directly to Valley Environmental Lab for analysis by methods HCID an EPA 8260B. Sampling from MW-1 was optional. Sample will be save for future analysis if needed. Follow up analysis was specified should results of HCID require. Depth to groundwater was measured from the top of casing (TOC) at each well. The results of groundwater elevation determination is summarized in the table below.

Well ID.	Casing Elev. (Ft)	GW Depth Below TOC	GW Elev.
MW-1	1022.31	14.95	1007.36
MW-2	1021.12	14.22	1006.90
MW-3	1019.93	13.15	1006.78

Groundwater temperature was measured during purging. Initial groundwater temperatures were measured at 58° F. Water temperature remained stable at 58° F for 5 minutes prior to sampling. There was no visible turbidity, discoloration, and no odor.

By: Scott D. Garland

APPENDIX “C”

Remedial Action Work Plan including SAP/QAPP/HASP

REMEDIAL INVESTIGATION WORK PLAN

TIDRICK'S QUALITY TRANSMISSION
1802 South 1st Street, Yakima, WA
(FS ID No. 543, CU ID No. 6497)

Prepared For:
Washington State Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, WA 98902

February 2014
Job No. 14006
Prepared by

PLSA Engineering & Surveying
1120 West Lincoln Avenue
Yakima, Washington 98902
(509) 575-6990

Table of Contents

List of Figures and Tables

Figures

Tables

1.0 INTRODUCTION

The objective of this Remedial Investigation (RI) is to evaluate the current nature and extent of contamination related to past land use practices at the Tidrick's Quality Transmission Site. These practices were associated with automotive repair and service facilities and included the use of two drywells, one waste oil underground storage tank (UST), and two gasoline USTs.

2.0 SITE BACKGROUND

2.1 Description and History of Site

The Tidrick's Quality Transmission Site is located at 1802 South 1st Street near its intersection with West Mead Avenue, Yakima, Washington. The Site is identified by geographic coordinates: Latitude 46° 34' 38.3988", Longitude -120° 29' 32.0352" or by Public Land Survey: South half of Section 30, T. 13 N., R 19 E, Willamette Meridian (Figure 1).

The history of this Site is not well known. The following narrative is derived from records stored at the Washington State Department of Ecology (Ecology): At the time of Ecology's first initial investigation, the site was identified as Carlos Motors, Inc., a used car dealership specializing in detailing older model cars. This business operated at this location from approximately 1967 until about 1993. Two drywells and three USTs existed on the property in conjunction with this business. The length of time the drywells and USTs were in use is unknown; however, the drywells were active for at least 20 years.

On July 21, 1992, Ecology received a complaint of oil dumping on the site. Upon completing its preliminary investigation, Ecology concluded that a release had occurred and notified the property owner of a further action determination. Prior to the performance of a site hazard assessment, Carlos Motors was replaced by Tidrick's Quality Transmission as the business entity operating at this address. According to local telephone directories, Tidrick's Quality Transmission was listed at this address beginning approximately November 1993.

In May 1994, limited soil sampling was performed during the site hazard assessment and releases were confirmed in the vicinity of the two drywells and the waste oil UST (Figure 2). In September of that year, Cayuse Environmental (Cayuse), an environmental consulting company hired by the former property owner, decommissioned three USTs on the site. Cayuse also initiated an independent remedial action in association with the removal of one of the two drywells (south drywell) and the release from the waste oil UST. The interim action consisted of soil removal.

In October and November 1994, the scope of the interim action was expanded in the areas surrounding the waste oil UST and the south drywell. The scope of work also included remedial action to address soil contamination in the north drywell. Approximately 700 tons of petroleum

contaminated soils (PCS) were reported to have been removed and disposed at the former Rabanco landfill in Roosevelt. However, no receipts or other supporting documentation are known to exist to verify the removal and proper disposal of the PCS.

Ecology review of the remedial action report concluded that the site characterization was incomplete due to the type and nature of the contamination. Analyses of the soil initially excavated in the vicinity of the waste oil UST and the north drywell exhibited concentrations of chlorinated solvents including tetrachloroethene (PCE) and trichloroethene (TCE) above Model Toxics Control Act (MTCA) Method A soil cleanup levels. Although soil had been over excavated in the vicinity of the waste oil UST and the two drywells, no analyses for chlorinated solvents were performed on the soil confirmational samples. Additionally, an undetermined quantity of PCS was left intact under the former garage/paint shop building (west building) during removal of the north drywell.

In March 2007, the site underwent a second Toxics Cleanup Program (TCP) initial investigation in conjunction with a Dangerous Waste Compliance inspection by the Hazardous Waste and Toxics Reduction Program. The joint investigations were prompted by visible evidence of improper storage and handling of generated waste streams. Numerous examples of releases to the ground with resultant contamination of the soil and conveyance to the stormwater drain were documented during the investigations. The business operating on the site at that time was Tidrick's Quality Transmission.

During the TCP initial investigation, limited soil sampling was performed in the shallow subsurface. Two grab samples were collected and analysis of both samples showed contaminant concentrations that exceeded the MTCA Method A soil cleanup level for heavy oil range organics. Other contaminants detected in the soil above compliance levels included lead and arsenic.

3.0 PROPERTY LOCATION AND DESCRIPTION

3.1 Property Location

The site is listed as assessor Parcel Number 191331-11012 located at 1802 South 1st Street Yakima, Washington, 98903. The property is approximately 1.57 acres in size. The north and east properties boundaries are defined by Mead Avenue and South 1st Street, respectively (Figure 1). The west and south property lines are bounded by land currently leased to the Yakima County Sheriff s Department. See Figure 1

3.2 Property Description

The legal description of the property is listed as: That portion of the Northwest ¼ of the Northwest ¼ of the Northeast ¼ of the Northeast ¼ of Section 31, Township 13 North, Range 19, E.W.M., described as follows: Beginning at the point of intersection of the South line of

Mead Avenue and the Westerly line of State Road No. 3; thence Southeasterly along said Westerly line 300 feet; thence West parallel with the South line of Mead Avenue 249.2 feet; thence North 183.6 feet; thence West 1 foot; thence North to the South line of said Mead Avenue; thence East to the point of beginning. (Parcel No. 191331-11012).

Two commercial structures and a paved parking lot formerly existed on the property. Assessor records documented that a building was constructed in 1935, presumably the main one, and the associated building was built in 1940. In December 2013 and January 2014, the two buildings and the asphalt pavement were demolished and removed from the site.

4.0 PRIOR SITE INVESTIGATION SUMMARY

4.1 Soil Investigation

In September 1994, Cayuse performed a site assessment with the removal of three USTs and initiated the removal of contaminated soils from releases at the waste oil UST and the south drywell. In October and November of that year, Cayuse expanded the scope of work to assess the north drywell and to excavate contaminated soils from the waste oil UST area and the two drywells (Figure 2).

Sampling and Analysis Deficiencies
The site assessment and interim soil removal action presented many deficiencies in site characterization and post-removal soil confirmational sampling.

The two USTs located at the north portion of the site were listed as gasoline USTs but little or no detail is known concerning whether the tanks had contained other chemicals such as heating oil. Upon removal of these two tanks, Cayuse reported there were no obvious signs of release. Three confirmational soil samples were obtained from each tank cavity, two from the sidewalls and one at the bottom of the excavation at a maximum depth of five feet below ground surface (bgs). The soil samples were analyzed for gasoline-range organics by WTPH-G and lead by EPA Method 6010. Based on these analyses there were no signs of gasoline releases from the USTs; however, the required testing should have additionally included analysis for volatile organic compounds (benzene, ethylbenzene, toluene, xylenes or BTEX).

The report also did not document investigation of the fuel distribution piping system associated with both gasoline USTs. The report did not describe any removal of the piping system or associated dispensers. According to the *Guidance on Site Checks and Site Assessments for Underground Storage Tanks* (February 1991), soil samples should have been obtained to assess the dispenser and piping areas for all required analyses.

In contrast, the initial soil samples obtained from the waste oil UST area and two drywells were analyzed by WTPH-418.1. Also, the soil excavation depths for cleanup at each of the drywells and the waste oil UST area were dictated by petroleum contamination as determined from

samples analyzed by that method. The shortcoming of this analytical method is that it does not identify the type of petroleum hydrocarbon in the sample but yields only a total recoverable petroleum hydrocarbon value. Analyses should have been performed to identify the specific types of petroleum hydrocarbons potentially present in the waste oil mixture or possibly disposed through the drywell system. The confirmational samples are compliant for petroleum hydrocarbons if the contamination was diesel-range or heavy oil-range hydrocarbons. If gasoline-range organics were present, the confirmational samples were not in compliance. The appropriate analyses would have included WTPH-HCID and where petroleum hydrocarbons were identified as present, quantified through WTPH-Gx or WTPH-Dx, respectively.

Chlorinated solvents and other volatile organic compounds

The characterization analysis in 1994 was inadequate since all of the required testing was not performed or only a portion of the analytical results were reported. A limited number of initial soil samples from the waste oil UST area and the south drywell area were analyzed by EPA Method 8260 but the laboratory report only shows the analysis as a chlorinated solvent scan and does not list detections or concentrations of benzene, toluene, ethylbenzene, or xylenes as constituents that were assessed. The samples from these two areas should have been screened for BTEX with the analytical results listed in the laboratory report. Detections of these constituents would have yielded information potentially indicative of a release containing fresh or less weathered gasoline to supplement hydrocarbon identification analysis if it had been conducted.

Other appropriate soil analysis should have included EPA Method 8270 to assess semi-volatile organics including such possible contaminants as naphthalene and carcinogenic polyaromatic hydrocarbons (cPAHs). Only one sample from the waste oil UST (#9422-09) and one sample from the south drywell (9422-12) were assessed via Method 8270. Analysis of both samples showed values of naphthalene near the compliance level for protection of groundwater for drinking water purposes; however, the values were flagged as estimates since the values were detected above the method detection limit but below the reporting limits.

Soil samples taken from the north drywell area were only analyzed for petroleum hydrocarbons by WTPH-418.1 Modified. Other analytical methods to screen for potential constituents were not performed on these samples. According to the notes associated with MTCA Table 830-1, the waste oil category applies to unknown petroleum products and mixtures of petroleum and nonpetroleum substances. As such, testing is required in a sufficient number of samples to determine whether a possibly associated chemical is present at concentrations of concern.

In 2007, an additional but very limited investigation was performed to assess surface contamination due to poor business housekeeping practices associated with the historical land use. Two grab samples of soil were collected from the shallow subsurface at a depth of three to six inches bgs. One soil sample was collected near the south fenceline in the vicinity of the southwest corner of the property. This sample exhibited a concentration of lube oil at 2,200 mg/kg. Analysis for chlorinated solvents was also conducted but the results were reported as estimates or as non-detections. Metals analyses were not performed on this sample.

The confirmational analyses for these areas following soil removal also did not account for chlorinated solvents and possibly other contaminants although the initial sampling results showed several chlorinated solvents present in soil concentrations above compliance levels. Subsequent analysis for chlorinated solvents following soil removal was not conducted nor were required screening analyses under MTCA Table 830-1 performed. Analyses including EPA Method 8260 and 8270 should have been performed to screen for possible constituents that have the potential to migrate due to high solubility as opposed to focusing specifically on heavy oil or total recoverable petroleum hydrocarbons.

Metals

The initial soil samples obtained from the waste oil UST as well as two samples from the south drywell were analyzed for metals; however, the soil samples were prepared by a leaching method typically used with waste profiling for disposal purposes. The laboratory analytical sheets indicated that EPA Method 1311 (TCLP) was used prior to analysis of the samples by EPA Method 6010. MTCA does allow for the derivation of soil concentrations protective of groundwater based on a leaching test. Per WAC 173-340-747(7), these analytical results are appropriate when determining the leachability of contaminants from a soil sample and to evaluate the soil leaching to groundwater pathway. For the soil concentrations to be protective of groundwater, the leaching test effluent concentrations shall be less than or equal to ten (10) times the applicable groundwater cleanup level established under WAC 173-3470-720. The analytical results showed that three of the soil samples failed the leaching test (sample nos. 9422-7, 9422-8 and 9422-12) for lead.

The direct contact exposure pathway should also have been evaluated at that time by performing EPA Method 6000 or 7000 series to determine contaminant concentrations in comparison to MTCA Method A or Method B cleanup levels. Assessment of the direct contact exposure pathway would not include EPA Method 1311 as a sample preparatory method prior to analysis.

During the limited site investigation in 2007, only one of the two grab samples of soil was analyzed for metals along with NWTPH-Dx. Analytical results showed that the sample obtained along the east wall near the southeast corner of the garage/paint shop (west building) had exceedances of lead (480 mg/kg) and lube oil (6,300 mg/kg).

In any event, the soil sampling for characterization and cleanup confirmational sampling were insufficient to determine if the soil concentrations were protective of human health for either of the two applicable exposure pathways for metals. Consequently, confirmational sampling and analysis for metals is required at the following areas: near the former waste oil UST, the north drywell and the area where the PCS was left intact under the building.

4.2 Groundwater Investigation

The maximum depth of soil excavation was 14 feet bgs during the interim action in 1994. Groundwater was not assessed since it was not encountered; however, the field work was performed in late October and early November after the area-wide irrigation had been shut down

and groundwater is expected to be near its low level. However, information from various sources indicates that groundwater in the area can be relatively shallow and the estimated depth to groundwater is variable:

- The USGS National Water Information System website records the shallow groundwater table ranging from 6 feet to 28 feet bgs (average = ~17.5 feet bgs, Sec. 30, T.13N., R.19E.)
- Information from the Ecology well log database indicates that the static water level varies

- from 8 feet to 30 feet bgs.
- The nearest Yakima Railroad Area (YRRA) shallow screened monitoring wells show groundwater levels from 8 to 10 feet bgs.
- A site adjacent to the south, Crop King/Woods Industries, has two monitoring wells that indicate that the static groundwater level is 7 feet bgs.

Additional groundwater characteristics can be inferred from the Yakima Railroad Area study. The study shows groundwater fluctuation is generally two feet between low and high water base with groundwater flow in the shallow aquifer easterly to southeasterly.

During the independent remedial action, PCS was left intact under the southeast corner of the garage/paint shop (west building). The analytical values in the adjacent excavation were below the default residual saturation values for petroleum. However, the PCS appears to be closely associated with the north drywell as shown on the remedial action site diagram. Consequently, there is the likely presence of a mixture of petroleum hydrocarbons and other contaminants including chlorinated solvents. Also, there may have been commingling of the impacted areas associated with the waste oil release and the north drywell. This supports additional inquiry for possible impact to groundwater.

Further investigation of groundwater is recommended due to the former use of the dry wells and the known releases from the waste oil UST. Additional support for assessment is provided by the unknown length of time that the dry wells were in use and duration of the waste oil releases.

5.0 SCOPE OF INVESTIGATION

The primary objective of the soil sampling and analysis is the determination of the nature and extent of contamination from releases to the environment in the areas of concern. The main areas of concern are the source areas that include the former locations of the two drywells and the waste oil UST. Additional but minor areas of concern include the two gasoline USTs and near-surface contamination as determined during the limited soil sampling associated with the second initial investigation performed by Ecology.

5.1 Data Quality Objectives

The objective for the soil sampling is to obtain discrete, representative soil samples that will include the collection of "worst case" samples determined by field screening as well as confirmational samples. This additional sampling will allow the conceptual site model to be updated and refined based on current site conditions.

The objective for the groundwater sampling is the collection of representative groundwater samples and associated groundwater data to screen and characterize the site for all the chemicals of concern that exist or potentially exist on the site. If monitoring wells are required, groundwater samples will be obtained during low and high water conditions to characterize groundwater for seasonal variations in flow and contaminant concentrations.

5.2 Utility Locates and Other Required Notifications

At least three days prior to subsurface investigations, the Northwest Utility Notification Center (1-800-424-5555 or 811) will be contacted so that the locations of public utilities will be marked. If as-built diagrams are available, these will also be consulted to assist in placement of proposed boring or trenching locations. Additionally, a private utility locating service will scan all tentative boring locations to verify clearance.

Start cards (Notice of Intent) will be submitted to the Water Resources Section of the Department of Ecology 72 hours prior to drilling for all proposed soil borings 10 feet or deeper below ground surface.

5.3 Sampling and Analysis Plan

The purpose of the Sampling and Analysis Plan is to establish the methodology for the collection of data that meets the Data Quality Objectives of this project.

The site characterization will consist of two components. The first component will be characterization of the soil to be performed in the former source areas and other areas where soil contamination is likely to be found. The second component will be assessment of groundwater characteristics such as groundwater levels and analytical results including groundwater screening and compliance data. If sufficient information is derived from the soil investigation then detailed groundwater analytical information may not be required with the exception of groundwater static level.

The soil assessment component will include characterization to determine the vertical and lateral extent of contamination, if existing, and assess the likelihood of impact to groundwater. The soil sampling will include screening to determine the presence or absence of contaminants not originally assessed in the subsurface in the areas of concern. The sampling will also include confirmational sampling over the extent of soil excavation as performed in the original

assessment. Additionally, the vertical extent of sampling may yield sufficient information to determine if impact to groundwater was likely to have occurred.

The necessity for installation of monitoring wells to assess possible groundwater impacts will be gauged through evaluation of site characteristics to include the following:

- Lack of verifiable records that only a small quantity of petroleum products were released;
- Lack of thorough soil testing showing the soil contamination has not significantly migrated;
- Lack of predominantly fine-textured soils in the area of soil contamination (dominated by silt or clay;
- Lack of considerable depth to groundwater (more than 50 feet from the ground surface);
- Release of products less prone to migration (diesel or heavy oil).

The groundwater assessment component, if required, will directly evaluate for the existence of a contaminant

5.3.1 Field Screening and Sampling of Soil

Surface or shallow subsurface soil sampling will be conducted to address the areas of concern determined during the limited site investigation in 2007. Additional soil sampling will be performed to assess the effectiveness of the interim action in the former source areas that occurred during 1994 (Figure 1).

The two surface areas of concern may have been disturbed by demolition activities in 2013 and 2014. Consequently, a grid will be established over an area measuring approximately 30 feet by 90 feet with boundaries at each 10 feet east to west and at each 18 feet north to south. This area represents that portion of the site historically lacking an impervious or semi-impervious surface cover. The area is visible in the aerial photograph as south of the west building to the south fenceline. The grid will be field screened using a field portable x-ray fluorescence (XRF) unit with one sample point within the center of each grid square unit. This will result in 15 sample locations. OR, lay out grid and visually assess for hydrocarbon staining. Sample each grid square with staining and assess for HRO and metals.

In the two surface areas of concern, soil samples for laboratory analyses will be obtained from the surface (0-1 "), then 1" to 6" below ground surface; thereafter depending on field observations. In the event that surface soils have been disturbed, then provision is allowed to field screen the two surface areas with a field portable x-ray fluorescence (XRF) unit.

A minimum of seven excavations will be advanced in former source areas (5 excavations) and additional areas (1 excavation each) upgradient and downgradient of the former source areas (Figure 3). Of the five borings in the former source areas, one boring will be advanced in the vicinity of the north drywell in the area where PCS exists and as close to the southeast corner of the garage as possible.

Trenching and test pits may be performed as an alternative means to characterize the soil profile and to collect samples. If this method is used, appropriate safety measures will be taken as described in the site-specific HASP. A minimum of three to four trenches are proposed.

The areas of investigation include a trench to characterize the waste oil UST area near the west fenceline (north-south) and a trench that transects the north drywell (north-south). Another trench will define the north boundary of the waste oil area, PCS area and north drywell (east-west).

Test pits will be excavated in the vicinity of the two gasoline USTs.

Continuous soil sampling will be attempted at the proposed excavation locations to characterize the soil profile throughout the site to a depth of approximately 20 feet or to groundwater or to a sufficient depth determined by field conditions and in consultation with Ecology. However, the continuous sampling does not have to begin at the surface but can begin at the designated depth:

- North drywell area: 8 to 14 feet bgs
- South drywell area: 9 feet bgs
- Waste oil UST excavation area: 6 to 9 feet bgs
- Gasoline UST areas: 5 feet bgs

Sufficient depth of sampling may be determined by bracketing the boundary where the soil contamination is above the MTCA Method A cleanup level to a depth where contamination is undetected or below compliance levels. This depth shall, at a minimum, extend 5 feet below where contamination was last encountered. An exception to this would exist if the contamination is minor, e.g., surficial, and fine grained soils predominate.

The substrate characteristics may require the use of drilling to recover soil samples and, if necessary, to install groundwater monitoring wells. If soil characteristics prevent the collection of a continuous profile, then another method may be used to obtain soil samples. The site investigation will have a contingency to allow for other methods other than drilling, for instance, a backhoe or excavator may be used to collect soil samples. If adequate soil samples cannot be obtained through this contingency, then an alternate sampling method may be used to assess the soil leaching to groundwater pathway through the collection of groundwater samples.

If drilling refusal is encountered or other circumstances prevent the advancement of the boring then another borehole may be attempted within the area cleared from the utility locate. During

drilling or open excavation, detailed logs of subsurface conditions will be recorded. Initially, all soil will be field screened visually for staining and by other field methods including but not limited to the sheen test, headspace readings (vapor analysis) using a photoionization detector (PID) or a flame ionization detector (FID).

If groundwater is encountered during advancement of a soil boring, a soil sample will be obtained from the soil core near the soil/water interface and another sample should be collected at the deepest portion of the last sampling interval.

5.4 Groundwater Sampling

Depth to groundwater in the area is variable depending on the information source:

- The USGS National Water Information System website records the shallow groundwater table ranging from 6 feet to 28 feet bgs (average = ~17.5 feet bgs, Sec. 30, T.13N., R.19E.)
- Information from the Ecology well log database indicates that the static water level varies from 8 feet to 30 feet bgs.
- The nearest Yakima Railroad Area (YRRA) shallow screened monitoring wells show groundwater levels from 8 to 10 feet bgs.
- A site adjacent to the south, Crop King/Woods Industries, has two monitoring wells that indicate that the static groundwater level is 7 feet bgs.

Based on the Yakima Railroad Area study, the groundwater fluctuation is generally two feet between low and high water. The same study shows groundwater in the shallow aquifer generally flows easterly or southeasterly.

5.4.1 Temporary Well Groundwater Sampling

If groundwater is encountered in any boring within 20 feet bgs, the initial groundwater static level will be measured and in-situ grab samples from temporary well points will be collected for the required analyses. This information will be evaluated to assist in determining where groundwater monitoring wells shall be installed.

If groundwater is not encountered within 20 feet bgs, at a minimum, one boring in the vicinity of the drywell/waste oil UST area but on the downgradient side will be advanced deep enough to assess groundwater level by a temporary well point.

Groundwater samples will be collected at this location for screening purposes and the entire suite of analyses for waste oil will be performed on these samples to determine if impact had occurred. If subsequent analysis indicates contamination in the groundwater at the downgradient temporary well, then an upgradient monitoring well is proposed to assess groundwater level and background contaminant concentrations, if present, in groundwater.

5.4.2 Monitoring Well Construction and Development

Based on the analyses of the soil and grab groundwater samples, monitoring wells may be installed for continued groundwater sampling. If the findings during the site investigation indicate that groundwater is likely to be impacted, then a minimum of three monitoring wells will be installed. Proposed locations for the monitoring wells are indicated on the site diagram and are based, in part, on the former source areas.

Construction and specifications of the monitoring wells will follow the requirements as stated in Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Wells) and the commonly accepted industry standards for installation of wells that will produce representative groundwater samples. The well casing will consist of 2-inch diameter Schedule 40 polyvinyl chloride (PVC). The screen will consist of a five foot section having 10 slot (0.010 inch) openings flush threaded with riser. The filter pack will consist of *10/20* silica sand deposited from the bottom of the screen to one foot above the top of the screen. The remainder of the annulus space will be filled with *3/8* inch bentonite chips to the bottom of a steel, flush-mounted well monument and finished with concrete.

The project schedule for monitoring well compliance sampling will be based on the completion of well development. The wells will be developed by surge block and pumping until the fines have dissipated (water is clear).

5.4.3 Survey of Monitoring Well Location and Elevation

All monitoring wells will be surveyed by a licensed surveying firm. For each monitoring well, the vertical elevation of the reference point marked on the top of the PVC casing for water levels should be measured to within 0.01 foot relative to the North American Vertical Datum of 1988 (NAVD88). The horizontal location of borings and monitoring wells will be measured to within 1.0 foot.

Monitoring well elevation measurements will be measured to a reference point marked at the top of the PVC well casing to the nearest 0.01 foot relative to the North American Vertical Datum of 1988 (NAVD88). Water levels should be measured to within 0.01 foot from this reference point on the casing.

If a property boundary survey is required, the horizontal datum will conform to the North American Datum of 1983, updated in 1991 (NAD83 (1991)).

Other methods of determining horizontal and vertical coordinates may be used, provided that the same level of precision is achievable. The method used to establish coordinates and other site measurements should be described as well as the accuracy of the method (closure or GPS equivalent).

5.4.4 Monitoring Well Sampling

Groundwater sampling of the monitoring wells will conform to the guidelines set forth in the *Guidance on Remediation of Petroleum Contaminated Sites.* The initial groundwater sampling results from the monitoring wells will dictate the frequency of sampling. Prior to sampling, the field personnel will coordinate with the laboratory to ensure sampling protocols including recommended sample volume, holding times, storage, etc.

Groundwater elevation measurements will be recorded from each well prior to sampling. The ground water levels will be measured to within 0.01 foot from the reference point on the casing. Samples will be collected by the low-flow purge and sampling method.

Groundwater samples will generally be collected unfiltered. The possible exception is the collection of samples for metals analysis. If turbidity is high, collect both unfiltered (for total metals analysis) and field filtered (for dissolved metals analysis). Once filtered, the sample should be preserved as per laboratory instructions.

Samples for organic contaminants will be unfiltered during collection

Groundwater samples will be screened for petroleum hydrocarbons, volatile petroleum compounds (BTEX), fuel additives and blending compounds (MTBE, EDB, EDC), carcinogenic PAHs, Naphthalenes, metals (cadmium, chromium, nickel, zinc, and lead), PCBs, and halogenated VOCs.

Groundwater samples will be initially analyzed with NWTPH-HCID, then quantified by NWTPH-Gx, NWTPH-Dx as necessary.

5.4.5 Groundwater Monitoring Well Decommissioning

The groundwater monitoring wells will be decommissioned per Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Wells) only after receiving written approval from Ecology.

5.5 Management of Investigative Wastes

Regulated investigation derived wastes (IDW) such as soil cuttings generated during drilling and sampling activities will be containerized in 55-gallon, US Department of Transportation (DOT) approved drums. Decontamination water and purge water from the groundwater monitoring wells will be stored in additional 16 or 55-gallon DOT-approved drums.

The onsite storage of regulated IDW shall not exceed 90 days. All regulated IDW will be temporarily staged onsite until profiling analyses are performed. Representative samples will be collected to profile the soil/drill cuttings and any groundwater. The drums will be labeled with the date, type and source of the materials contained. Non-regulated IDW including nitrile gloves,

visqueen sheeting, Teflon lined polyethylene tubing may be disposed as standard municipal waste.

Management of IDW will be documented in the Remedial Investigation report. The documentation will include disposal arrangements and laboratory analytical results for waste profiling.

For soil, the requirements in Chapter 173-350-300 WAC (Collection and Transportation Standards for Solid Waste) shall apply. Receipts documenting off-site disposal should be retained by the property owner.

5.6 Laboratory Analyses

Soil and groundwater samples will be submitted to a laboratory accredited for the required analyses. If the laboratory is not accredited for a particular analysis, the analysis can be performed by another laboratory that is accredited for that method. A chain-of-custody shall be completed to document the transfer. The receiving laboratory shall note sample conditions and anomalies in the samples, e.g., if air bubbles are present in the 40-ml VOA groundwater vials.

Final documentation shall indicate the preservation and storage of samples, if the samples were analyzed within their respective holding times for particular analyses, and any discrepancies noted that may affect the quality of the samples.

The soil and groundwater samples taken in the vicinity of the waste oil UST should be analyzed for volatile organic compounds (BTEX), fuel additives and blending compounds (MTBE, EDB, EDC), carcinogenic PAHs, metals, PCBs, and halogenated VOCs. The required analyses for waste oil releases are outlined in Table 1 below. Since the same contaminants may be expected to potentially exist in the drywell area, the drywell soils and groundwater shall also be assessed by the listed analyses.

The analyses for fuel additives including BTEX, EDB, EDC, MTBE are not required on all soil and groundwater samples; however, sufficient analyses should be performed to cover each area of concern.

For soil:

- NWTPH-HCID, if detections then quantification by NWTPH-Gx and NWTPH-Dx;
- EPA Method 8260 to assess VOCs, MTBE, EDC, EDB, and halogenated VOCs (chlorinated VOCs);
- EPA Method 8270 for carcinogenic PAHs, naphthalene;
- EPA Method 8082 for PCBs;
- EPA Method 6000 or 7000 Series for metals (cadmium, chromium, nickel, lead and zinc).

- EPA Method 5035 for collection of soils for volatile organic compounds analysis (This is the preferred method for collection of VOC samples but it is understood that this method may be difficult depending on grain size, etc. Difficulties in sample recovery and collection should be noted in field notebook.)

TCLP will only be used for waste profiling as a preparatory procedure prior to the appropriate analytical method for metals.

For groundwater:

- NWTPH-HCID, if detections then quantification by NWTPH-Gx and NWTPH-Dx;
- EPA Method 8260 to assess VOCs, MTBE, EDC, and halogenated VOCs (chlorinated VOCs);
- EPA Method 504.1 for EDB;
- EPA Method 8270 for carcinogenic PAHs, naphthalene;
- EPA Method 8082 for PCBs;
- EPA Method 6000 or 7000 Series for metals (cadmium, chromium, nickel, lead and zinc).

Table 1. Required Analyses for Waste Oil Release (Table 830-1, Chapter 173-340 WAC)

Chemical	Analytical Method	
	Soil	Groundwater
Volatile Petroleum Compounds		
Benzene	EPA Method 8260	EPA Method 8260
Toluene	EPA Method 8260	EPA Method 8260
Ethylbenzene	EPA Method 8260	EPA Method 8260
Xylenes	EPA Method 8260	EPA Method 8260
Fuel Additives & Blending Compounds		
EDB	EPA Method 8260	EPA Method 504.1
EDC	EPA Method 8260	EPA Method 8260
MTBE	EPA Method 8260	EPA Method 8260
Total lead & other additives	EPA 6000 or 7000 Series	EPA 6000 or 7000 Series
Other Petroleum Components		
Carcinogenic PAHs	EPA Method 8270 SIM	EPA Method 8270 SIM
Naphthalenes	EPA Method 8270	EPA Method 8270
Other Compounds		
PCBs	EPA Method 8082	EPA Method 8082
Halogenated Volatile Organic Compounds	EPA Method 8260	EPA Method 8260
Metals (lead included as additive)		
Cadmium	EPA 6000 or 7000 Series	EPA Method SW 7131
Chromium (Total)	EPA 6000 or 7000 Series	EPA 6000 or 7000 Series
Nickel	EPA 6000 or 7000 Series	EPA 6000 or 7000 Series

Chemical	Analytical Method	
Zinc	EPA 6000 or 7000 Series	EPA 6000 or 7000 Series

6.0 QUALITY ASSURANCE PROJECT PLAN

The primary objective of the QAPP is to assure that a sufficient number of samples are collected to gain quality analytical information for the Tidrick Quality Transmission site, to evaluate the various environmental media of concern, and to determine whether there is a risk of offsite contamination transport.

6.1 Personnel

The site manager for Ecology is John Mefford, who is responsible for defining the scope and objectives of this project.

PLSA co-project managers and principal sampling personnel, Brad Card P.E. and Scott Garland P.E., are responsible for assuring that all on-site personnel are trained to properly carry out information included in this SAP and QAPP and that all resources are made available to meet the investigation objectives.

The PLSA health and safety officer is Scott Garland P.E., who is responsible for identifying and mitigating potential hazards while field work is being performed and insuring health and safety procedures are implemented and followed.

6.2 Documentation

A complete record of field activities will be maintained. Documentation necessary to meet quality assurance (QA) objectives for this project includes field notes and field forms, borehole logs, sample container labels, and chain-of-custody (COC) forms. The field documentation will provide descriptions of all sampling activities, sampling personnel, and weather conditions. All modifications, decisions, and/or corrective actions to the study design and procedures identified in the SAP will be recorded in the field documents with a signature and date.

Daily activities will be recorded. Information recorded will include the following:

- Date, time, place, and location of sampling
- Onsite personnel and visitors
- Daily safety discussion and any safety issues
- Quality control samples (i.e., duplicate samples, trip blanks, etc.)
- Field measurements and their units
- Observations about site, location, and samples (weather, current, odors, appearance, etc.)
- Equipment decontamination verification

FEBRUARY 21, 2014
JOB NO. 14006

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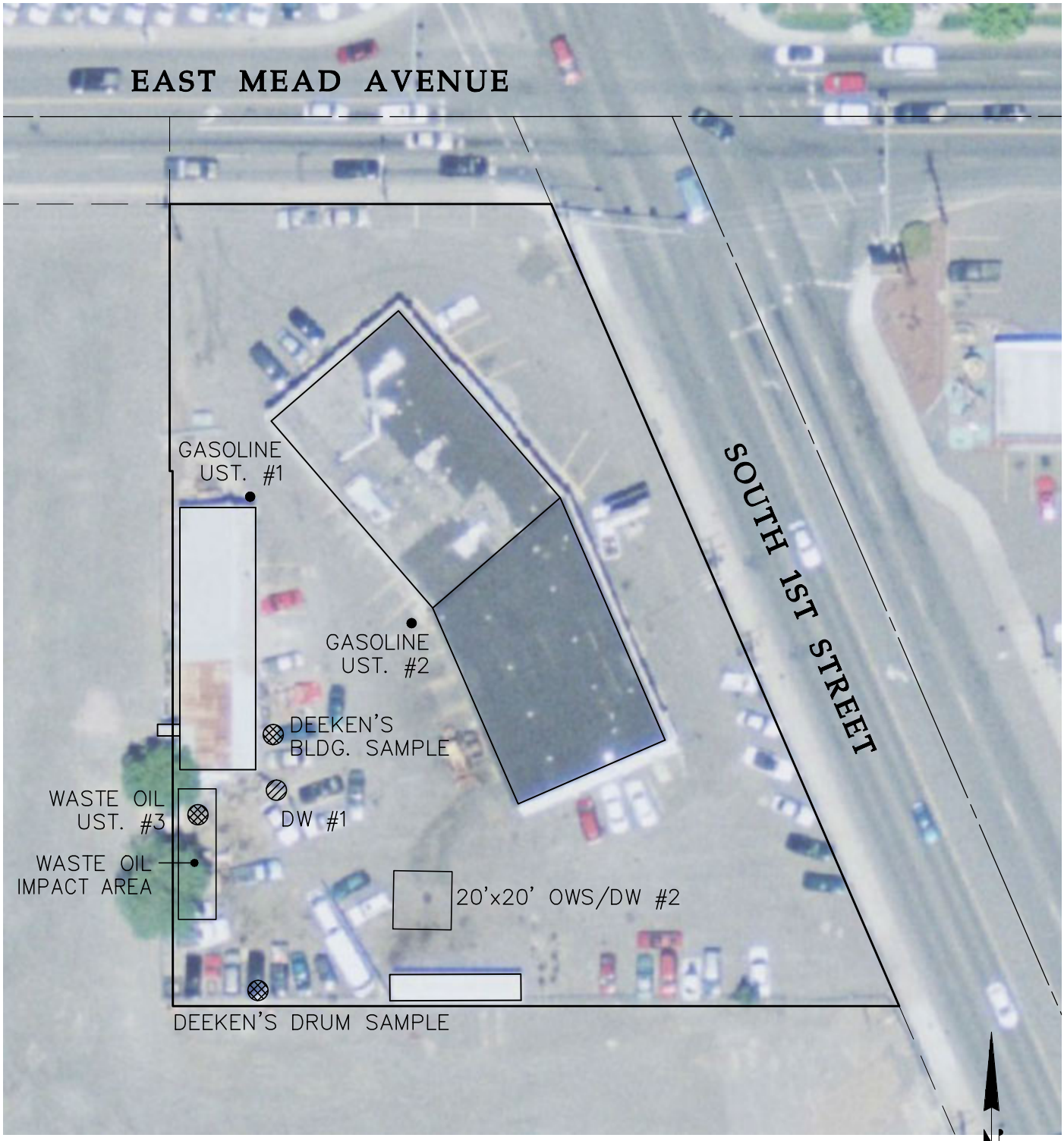
FIGURE 1 - GENERAL SITE DIAGRAM
1802 SOUTH 1st STREET
YAKIMA, WASHINGTON

PREPARED FOR
DEREK & ASSOCIATES



50 0 50 FEET

SCALE: 1" = 50'

FEBRUARY 21, 2014
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FIGURE 2 - SITE DIAGRAM AREA OF CONCERN
1802 SOUTH 1st STREET
YAKIMA, WASHINGTON
PREPARED FOR
DEREK & ASSOCIATES

50 0 50 FEET

SCALE: 1" = 50'

MARCH 31, 2014
JOB NO. 14006

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FIGURE 3 - MONITORING WELL LOCATIONS
1802 SOUTH 1st STREET
YAKIMA, WASHINGTON

PREPARED FOR
DEREK & ASSOCIATES

Field logbooks are intended to provide sufficient data and observations to enable participants to reconstruct events that occur during project field activities. Entries should be factual, detailed, and objective. If an error is made, the individual responsible may make corrections simply by crossing out the error and entering the correct information. The erroneous information should not be obliterated. All corrections must be initialed and dated. All documentation, including voided entries, must be maintained within project files. Photocopies or electronic scans of the field logbooks will be made at the end of each field event and maintained in the project file. Boring logs will be used to record geological and well installation observations and data. Soil sampling information (sample ID, depth, time) will also be recorded on these logs.

Sample collection data sheets will be completed for each groundwater sample location. Sample data sheets will contain date and time of sample collection, sample number, sample location, field measurements (e.g., pH, conductivity, temperature), and analyses collected. Sample labels will be attached to each sample container. Labels will contain the sample number, date and time of sample collection, analyses requested, and information on sample preservation. Chain-of-custody forms will accompany all samples shipped to the analytical laboratory. In addition to containing a record of sample information, chain-of-custody forms will contain the signature of the sample shipper and will document the date and time that samples were shipped. Upon receipt at the laboratory, the chain-of-custody record will be compared with the samples received, any discrepancies will be noted, and the form will be signed and dated by an authorized laboratory representative and a copy returned to the sender.

6.3 Analytical Methods

Analytical methods may be found in Section 5.6 of this Plan.

6.4 Laboratory QA/QC and Data Submittals

Laboratory quality control (QC) samples will include the following, as relevant to each analytical method:

- Method blanks
- Method blank spikes
- Laboratory control samples
- Surrogates
- Matrix spikes/matrix spike duplicates
- Laboratory duplicates

Laboratory data will be provided in both, hard copy and electronic file to PLSA and will consist of laboratory narratives, chain-of-custody documentation, quality control documentation containing method blank results, and QA summary forms. The narrative should note any deviations from the sample handling protocols as previously established by the laboratory. The

sample handling protocols should note conformance to preservation methods such as storage in a cooler with blue ice to a temperature of 4 degrees Celcius. Also, the presence of air bubbles in groundwater VOA vials should be noted.

Laboratory deliverables will include electronic data formatted to meet the submittal requirements of Ecology's Environmental Information Management database.

6.5 Field QA/QC Measures

Samples will be considered acceptable to the field manager if sufficient quantity of material is recovered to adequately and appropriately represent the target material and depth interval. Examples of unacceptable samples or sample locations include soil samples with largely coarse-grained material (coarser than sand), refusal before extending below major contaminant depths, and water samples that are extremely turbid. For cases of poor recovery or refusal or lack of physical access, the PLSA field manager or project manager will discuss with the Ecology site manager to decide whether data completeness has been affected significantly enough to require moving boring locations or resampling.

Field QC samples will also be collected to gauge the quality of samples being collected; these include the following:

Field duplicates will be collected to assess natural variability in the sampled soil and groundwater matrix. One soil and one groundwater field duplicate will be collected per 20 samples or one for each field sampling day of this investigation, whichever is greater. This sample will allow the relative percent difference to be calculated, to gauge the variability in the sampling and analysis processes.

Trip blanks will be submitted with every sample shipment in which samples are being analyzed for volatile organics including BTEX + MTBE, EDB, EDC and NWTPH-Gx. One trip blank, consisting of laboratory-supplied organic-free water, will be included in each cooler and analyzed upon receipt for the same constituents as the environmental samples.

6.6 Containers, Preservatives, and Holding Times

Sample containers will be certified clean from the laboratory. Sufficient volume of soil and groundwater will be collected to perform all required analyses as listed in Table 1. Also, sufficient volume will be collected if additional analyses are needed, for instance, when screening for hydrocarbon type by NWTPH-HCID and, if present, quantify by NWTPH-Gx and NWTPH-Dx.

Note that the sample preservation and storage, desired sample volume, and the minimum sample volume may vary between laboratories. Check with the laboratories prior to sampling and document if deviating from this table. Also, if the samples are chilled to the required storage temperature but are not preserved by acid then the holding time will be shorter.

Table 2. Recommended Bottle Type, Preservation, and Holding Times for Samples

Analysis	Medium	Container	Preservation	Holding Time
NWTPH-HCID	groundwater	1-500 ml amber; 2-40 ml glass VOA vials	Cool to 4^0 C	7 days
	soil	2-4 oz clear wide mount jar	Cool to 4^0 C	14 days
NWTPH-Gx	groundwater	2-40 ml VOA glass vials with HCl	Cool to 4^0 C	14 days
	soil	2-40 ml VOA glass vials with methanol	Cool to 4^0 C	14 days
NWTPH-Dx	groundwater	2-500 ml amber	Cool to 4^0 C	14 days
	soil	2-40 oz clear wide mouth jar	Cool to 4^0 C	14 days
BTEX	groundwater	3-40 ml VOA glass vials with HCl	Cool to 4^0 C	14 days
	soil	3-40 ml VOA glass vials with methanol	Cool to 4^0 C	14 days
	groundwater			
	soil			
	groundwater			
	soil			

6.7 Sample Numbering

Each soil and groundwater sample will be clearly labeled using unique sample identifiers as follows:

Subsurface soils (SB)
The sample numbering for the soil samples will be the generic alpha-numeric designation, SB-xx-yy, where "xx" is the boring number and "yy" is the depth of the top of the sampled interval measured in feet below ground surface, for example, SB-01-05.

Note that the general convention on sample numbering for each dash-separated segment is a two digit number with a "0" as a placeholder if the number is less than 10. This applies to all of the types of sample numbers as shown in the examples.

Groundwater grab sample from temporary well points (TW)
The sample numbering for the groundwater samples from temporary well points will be the generic alpha-numeric designation, TW-xx-mmddyy, where "xx" is the boring number and "mmddyy" is the date of collection, for example, TW-04-051809.

Groundwater sample from monitoring well (MW)
The sample numbering for the groundwater samples from monitoring wells will be the generic alpha-numeric designation, MW-xx-mmddyy, where "xx" is the monitoring well number and "mmddyy" is the date of collection, for example, MW-12-051809.

Trip blanks: *TB-mmddyy-x (*for example, TB-0521809-2*)*
Where "mmddyy" is the date and "x" is the sequential number of this type of sample prepared on the same day.

6.8 Field Equipment Calibration

Field instruments, including a photo-ionization detector (PID) and a field portable x-ray fluorescent (XRF) unit will be calibrated prior to use each day according to the manufacturer's recommended procedure using the appropriate calibration standards. Recalibration may be needed during the day after a significant gap of time, or if the instrument does not give reliable readings (such as does not zero out). All calibration of such instruments will be recorded in the field log book. Any instrument issues should be recorded in field book.

6.9 Sample Storage and Delivery Procedures

At a minimum, all samples will be stored in insulated coolers and preserved by cooling with ice to a temperature of 4^0 to 6^0 Celsius. During receipt of samples, the receiving laboratory shall note any discrepancies in its narrative. This narrative should form part of the record in addition to the chain-of-custody.

Maximum sample holding and extraction times for the required analyses will be adhered to by field personnel and the analytical laboratories. Sample preservatives such as HCl or methanol shall be used for any samples if extraction or analysis cannot be performed within the proper holding time and as appropriate for that particular analysis.

6.10 Chain-of-Custody Procedures

Chain of custody (COC) forms will ensure that all collected samples are properly documented and traceable through storage, transport, and analysis. When all line items on the form are completed or when the samples are relinquished, the person with custody will sign and date the form, list the time, and confirm the completeness of all descriptive information and required analyses.

Samples will be retained in the field crew's custody until samples are delivered or shipped to the appropriate laboratory by PLSA personnel. The field COC terminates when the laboratory receives the samples. The field sample custodian should retain a copy of the completed, signed COC form(s) for the project files. If the laboratory sends samples for additional analyses then another chain of custody should record the subsequent transfers. Each laboratory should complete a narrative describing the condition of the samples received.

7.0 REFERENCES

Cayuse Environmental (1994), *Removal of two gasoline storage tanks and one used oil tank located at the corner of 1st Ave. and Mead in Yakima, WA*. Underground storage tank closure report.

U.S. Environmental Protection Agency (2008), *Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods SW-846*.

Contents of site file including notes describing the 1992 and 2007 initial investigations to include the Manchester Laboratory report and the Site Hazard Assessment report.

APPENDIX A

PLSA HEALTH AND SAFETY PLAN
TIDRICK'S QUALITY TRANSMISSION

GENERAL INFORMATION
CLIENT: Dereck & Associates
PROJECT MANAGER: John Mefford, Washington State Department of Ecology, Brad Card P.E. and Scott Garland P.E., PLSA Engineering & Surveying
SITE NAME: Tidrick's Quality Transmission
SITE LOCATION: 1802 South 1st Street, Yakima, WA
PURPOSE OF FIELD VISIT(S): Collect groundwater samples and soil samples
DATE OF VISIT(S): First Quarter 2014
Article I. Site Characteristics

AREA DESCRIPTION

The site is located at 1802 South 1st Street, Yakima, WA. The site is a former automotive repair facility that is bordered by Mead Avenue (runs east-west) and South 1st Street on the east. Commercial property borders on the south and east/

Possible Contaminate Characteristics

a) Waste Type(s)

Liquid X Solid X Sludge Gas Dust X__

b) Characteristics

Corrosive Ignitable Radioactive Volatile _
Toxic Reactive Unknown x_ Other __
Article II. Hazard Evaluation
CHEMICAL HAZARDS
Based upon review of the previous assessments, potential chemical hazards on the site include petroleum products from historic underground storage tanks (USTs).
Site personnel are trained in hazard recognition and will use personal protective equipment (PPE) appropriate to the potential hazards.

a) Air Monitoring

Direct read air monitoring equipment may be employed to screen for contaminants and toxic or flammable atmospheres prior to collecting samples if the project manager, or site supervisor, deems it appropriate.

b) General Safety Hazards

Sampling at the proposed sites will be unlikely to pose any unanticipated safety hazard to workers. The proposed scheme involves subsurface water and soil sampling.
If sampling will be performed along roads and alleys, personnel will don "OSHA Orange" vests and traffic control measures will be initiated. The site supervisor will identify any site-specific hazards during pre-job safety meetings. The site supervisor will update employees if site hazards change.

The most likely hazards to be encountered are those commonly encountered on many work-sites (heat stress, working around machinery, noise, etc.). All PLSA employees performing field work on this project will comply with the most current Health and Safety Manual and Health and Safety Standard Operating Procedures for PLSA. Each employee has been provided access to this manual.

Article III. Work Practices

Workers will comply with all PLSA Health and Safety Manual rules. Workers will comply with all state and federal regulations.

PERSONAL PROTECTIVE EQUIPMENT

Section 100.5 of the most current Health and Safety Manual and Health and Safety Standard Operating Procedures for PLSA addresses PPE selection:

- A Class A, B, or C hard hat as appropriate to the site,
- Steel-toed, steel shank work boots,
- Hearing protection, and
- Safety Glasses.

DECONTAMINATION PROCEDURES

a) Personnel

Before leaving the sample area, thoroughly wash hands and face with soap and water before eating, drinking, or smoking. If water is not available use pre-moistened towelettes to wash face and hands.

Do not track contaminated soils and dust off-site.

b) Samples

After the sample containers are filled they will be sealed shut, marked with indelible marker, and any excess dirt will be wiped from the outside of the sample containers before they are stored. Sample containers will be transported in suitable sealed containers placed in stable containers that can be securely closed.

c) Disposal of Materials Generated On-Site

Collect trash and non-hazardous waste and place it in appropriate trash receptacles for municipal trash pick up. Potentially contaminated materials will be separated, sealed in chemically compatible containers, and labeled for appropriate off-site disposal.

d) Safety Equipment and Materials

Each sampling team will have access to a first aid kit, clean water, paper cups, and premoistened towelettes. Site supervisors will ensure appropriate safety gear is available for site operations. The site supervisor will also be equipped with a cell phone in case of an emergency requiring outside assistance.

Article IV. Emergency Procedures

If an injury occurs, take the following steps:

- Prevent further injury and notify the site supervisor.
- Initiate first aid and get medical attention for the injured person immediately.
- Depending on the type and severity of the injury, call for medical attention.
- Prepare an incident report.
- The crew chief / site safety officer will assume charge during a medical emergency.

a) Local Emergency Phone Numbers

Ambulance: 911
Hospital:
Yakima Regional Medical & Cardiac Center (509) 575-5000 (non-emergency) 911 (emergency department)
110 South 9th Avenue
Yakima, WA 98944
Poison Control Center: 800-222-1222
Sheriff/Police: 911
(509) 575-6200 (City of Yakima
Police Dept. non-emergency)

Fire Department: 911
(509) 837-3999 (non-emergency)

b) Emergency Contacts

8 am to 5 pm: PLSA office (509) 575-6990

Article V. Site Organization

Map/Sketch Attached YES Site Secured NO
Perimeter Identified YES

EMERGENCY ROUTE

Driving directions to Yakima Regional Medical & Cardiac Center (Hospital)
Total Travel Estimates: about 15 minute / 0.48 miles

1. Start out going WEST on **E Mead Avenue** toward **S 10th Avenue**.
2. Take the 1st LEFT onto **S 10th Avenue.**
3. Turn SLIGHT RIGHT onto **Walnut Street**.
4. **Enter Yakima Regional Parking Lot**.

APPENDIX “D”

Laboratory Analytical Reports

JULY 2014
SOIL ANALYTICAL RESULTS

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-001
Client Sample ID 70813
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 8:34 AM
Sample Location

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	0.890	mg/Kg	0.507	7/23/2014	ETL	EPA 6020A	
Chromium	21.7	mg/Kg	0.507	7/23/2014	ETL	EPA 6020A	
Nickel	21.6	mg/Kg	0.507	7/23/2014	ETL	EPA 6020A	
Zinc	151	mg/Kg	0.507	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-002
Client Sample ID 70814
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 8:29 AM
Sample Location

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.472	7/23/2014	ETL	EPA 6020A	
Chromium	17.0	mg/Kg	0.472	7/23/2014	ETL	EPA 6020A	
Nickel	13.9	mg/Kg	0.472	7/23/2014	ETL	EPA 6020A	
Zinc	48.6	mg/Kg	0.472	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-003 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70815 **Sampling Time** 9:10 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.557	7/23/2014	ETL	EPA 6020A	
Chromium	20.6	mg/Kg	0.557	7/23/2014	ETL	EPA 6020A	
Nickel	19.2	mg/Kg	0.557	7/23/2014	ETL	EPA 6020A	
Zinc	72.0	mg/Kg	0.557	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-004 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70816 **Sampling Time** 8:59 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.54	7/23/2014	ETL	EPA 6020A	
Chromium	16.1	mg/Kg	0.54	7/23/2014	ETL	EPA 6020A	
Nickel	14.1	mg/Kg	0.54	7/23/2014	ETL	EPA 6020A	
Zinc	62.0	mg/Kg	0.54	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-005 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70817 **Sampling Time** 9:53 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	0.595	mg/Kg	0.531	7/23/2014	ETL	EPA 6020A	
Chromium	21.0	mg/Kg	0.531	7/23/2014	ETL	EPA 6020A	
Nickel	18.6	mg/Kg	0.531	7/23/2014	ETL	EPA 6020A	
Zinc	138	mg/Kg	0.531	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-006 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70818 **Sampling Time** 9:40 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.477	7/23/2014	ETL	EPA 6020A	
Chromium	19.1	mg/Kg	0.477	7/23/2014	ETL	EPA 6020A	
Nickel	17.4	mg/Kg	0.477	7/23/2014	ETL	EPA 6020A	
Zinc	56.0	mg/Kg	0.477	7/23/2014	ETL	EPA 6020A	

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YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-007 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70819 **Sampling Time** 10:32 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.511	7/23/2014	ETL	EPA 6020A	
Chromium	19.9	mg/Kg	0.511	7/23/2014	ETL	EPA 6020A	
Nickel	17.2	mg/Kg	0.511	7/23/2014	ETL	EPA 6020A	
Zinc	62.2	mg/Kg	0.511	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-008 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70820 **Sampling Time** 10:15 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.535	7/23/2014	ETL	EPA 6020A	
Chromium	20.0	mg/Kg	0.535	7/23/2014	ETL	EPA 6020A	
Nickel	18.7	mg/Kg	0.535	7/23/2014	ETL	EPA 6020A	
Zinc	68.7	mg/Kg	0.535	7/23/2014	ETL	EPA 6020A	

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YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-009 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70821 **Sampling Time** 11:16 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.525	7/23/2014	ETL	EPA 6020A	
Chromium	18.9	mg/Kg	0.525	7/23/2014	ETL	EPA 6020A	
Nickel	17.6	mg/Kg	0.525	7/23/2014	ETL	EPA 6020A	
Zinc	68.0	mg/Kg	0.525	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-010 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70822 **Sampling Time** 11:07 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.503	7/23/2014	ETL	EPA 6020A	
Chromium	21.0	mg/Kg	0.503	7/23/2014	ETL	EPA 6020A	
Nickel	16.1	mg/Kg	0.503	7/23/2014	ETL	EPA 6020A	
Zinc	52.6	mg/Kg	0.503	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-011 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70823 **Sampling Time** 11:42 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.46	7/23/2014	ETL	EPA 6020A	
Chromium	14.7	mg/Kg	0.46	7/23/2014	ETL	EPA 6020A	
Nickel	13.4	mg/Kg	0.46	7/23/2014	ETL	EPA 6020A	
Zinc	49.6	mg/Kg	0.46	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-012 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70824 **Sampling Time** 11:31 AM
Matrix Soil **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/Kg	0.441	7/23/2014	ETL	EPA 6020A	
Chromium	17.5	mg/Kg	0.441	7/23/2014	ETL	EPA 6020A	
Nickel	14.2	mg/Kg	0.441	7/23/2014	ETL	EPA 6020A	
Zinc	45.4	mg/Kg	0.441	7/23/2014	ETL	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70813	**County: YAKIMA**
Sample Location: OWS2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70813-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: OWS2**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 8:34 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample #	227-70813				
	Sample ID	OWS2				
	Units	ppm	Limits			
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4		90.4%	(70-130)			
4-Bromofluorobenzene		95.2%	(70-130)			
Toluene-d8		98.8%	(70-130)			
Dichlorodifluoromethane		ND	0.005			
Chloromethane		ND	0.005			
Vinyl chloride		ND	0.005			
Bromomethane		ND	0.005			
Chloroethane		ND	0.005			
Acetone		ND	0.025			
Acrolein		ND	0.005			
1,1-Dichloroethylene		ND	0.005			
Methylene chloride		ND	0.025			
Acrylonitrile		ND	0.005			
trans-1,2-Dichloroethylene		ND	0.005			
1,1-Dichloroethane		ND	0.005			
Methyl ethyl ketone (MEK)		ND	0.025			
cis-1,2-Dichloroethylene		ND	0.005			
2,2-Dichloropropane		ND	0.005			
Chloroform		ND	0.005			
Bromochloromethane		ND	0.005			
1,1,1-Trichloroethane		ND	0.005			
1,2-Dichloroethane		ND	0.005			
1,1-Dichloropropene		ND	0.005			
Carbon tetrachloride		ND	0.005			
Benzene		ND	0.005			
Trichloroethylene		ND	0.005			
Date Analyzed:		7/17/2014				
Analyst:		125				

ND = None Detected

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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70813				
Sample ID	OWS2				
Units	ppm	Limts			
1,2-Dichloropropane	ND	0.005			
Dibromomethane	ND	0.005			
Bromodichloromethane	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Toluene	ND	0.005			
trans-1,3-Dichloropropene	ND	0.005			
1,1,2-Trichloroethane	ND	0.005			
1,3-Dichloropropane	ND	0.005			
Dibromochloromethane	ND	0.005			
Tetrachloroethylene	ND	0.005			
1,2-Dibromoethane	ND	0.001			
Chlorobenzene	ND	0.005			
1,1,1,2-Tetrachloroethane	ND	0.005			
Ethylbenzene	ND	0.005			
m,p-Xylene	ND	0.005			
Styrene	ND	0.005			
o-Xylene	ND	0.005			
Bromoform	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,2,3-Trichloropropane	ND	0.005			
Bromobenzene	ND	0.005			
n-Propylbenzene	ND	0.005			
2-Chlorotoluene	ND	0.005			
4-Chlorotoluene	ND	0.005			
1,3,5-Trimethylbenzene	ND	0.005			
tert-Butylbenzene	ND	0.005			
1,2,4-Trimethylbenzene	ND	0.005			
sec-Butylbenzene	ND	0.005			
1,3-Dichlorobenzene	ND	0.005			
1,4-Dichlorobenzene	ND	0.005			
4-Isopropyltoluene	ND	0.005			
1,2-Dichlorobenzene	ND	0.005			
n-Butylbenzene	ND	0.005			
1,2-Dibromo-3-chloropropane	ND	0.005			
1,2,4-Trichlorobenzene	ND	0.005			
Naphthalene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70813				
Sample ID	OWS2				
Units	ppm	Limits			
1,1,1-Trichloroethane	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,1-Dichloroethene	ND	0.005			
1,2,3-Trichlorobenzene	ND	0.005			
1,2-Dichloroethane	ND	0.005			
2-hexanone	ND	0.025			
Bromoform	ND	0.005			
Carbon disulfide	ND	0.005			
Chlorobenzene	ND	0.005			
cis-1,2-dichloroethene	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Hexachlorobutadiene	ND	0.005			
Isopropylbenzene	ND	0.005			
Methyl Isobutyl ketone (MIBK)	ND	0.025			
methyl-t-butyl ether (MTBE)	ND	0.005			
p-siopropyltoluene	ND	0.005			
tert-Butylbenzene	ND	0.005			
trans-1,2-Dichloroethene	ND	0.005			
Trichlorofluoromethane	ND	0.005			
Tetrachloroethene	0.0130	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70813	**County: YAKIMA**
Sample Location: OWS2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**102.0**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70813-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70813	**County: YAKIMA**
Sample Location: OWS2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**0.890**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Chromium	**21.7**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Nickel	**21.6**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Zinc	**151**	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70813-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-001	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM	
Client Sample ID	70813	**Sampling Time**	8:34 AM				
Matrix	Soil	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-001	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70813	**Sampling Time**	8:34 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-001	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70813	**Sampling Time**	8:34 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.0130	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	10.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.4	70-130
4-Bromofluorobenzene	EPA 8260B	95.2	70-130
Toluene-d8	EPA 8260B	98.8	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-001	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70813	**Sampling Time**	8:34 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	0.0221	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	0.0206	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	0.0186	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	0.0122	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	0.0124	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	0.0159	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	10.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-001

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	90.3	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-001	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70813	**Sampling Time**	8:34 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	10.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	102.0	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70814	**County: YAKIMA**
Sample Location: OWS13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70814-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, St 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: OWS13**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 8:29 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	**227-70814**					
Sample ID	**OWS13**					
Units	**ppm**	**Limits**				
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4	88.0%	(70-130)				
4-Bromofluorobenzene	94.0%	(70-130)				
Toluene-d8	99.6%	(70-130)				
Dichlorodifluoromethane	ND	0.005				
Chloromethane	ND	0.005				
Vinyl chloride	ND	0.005				
Bromomethane	ND	0.005				
Chloroethane	ND	0.005				
Acetone	ND	0.025				
Acrolein	ND	0.005				
1,1-Dichloroethylene	ND	0.005				
Methylene chloride	ND	0.025				
Acrylonitrile	ND	0.005				
trans-1,2-Dichloroethylene	ND	0.005				
1,1-Dichloroethane	ND	0.005				
Methyl ethyl ketone (MEK)	ND	0.025				
cis-1,2-Dichloroethylene	ND	0.005				
2,2-Dichloropropane	ND	0.005				
Chloroform	ND	0.005				
Bromochloromethane	ND	0.005				
1,1,1-Trichloroethane	ND	0.005				
1,2-Dichloroethane	ND	0.005				
1,1-Dichloropropene	ND	0.005				
Carbon tetrachloride	ND	0.005				
Benzene	ND	0.005				
Trichloroethylene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

ND = None Detected

VALLEY Environmental Laboratory
15 W. Yakima Ave, St 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70814					
Sample ID	OWS13					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory
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Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70814					
Sample ID	OWS13					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	0.0156	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70814	**County: YAKIMA**
Sample Location: OWS-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**93.3**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70814-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70814	**County: YAKIMA**
Sample Location: OWS13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.472			EPA 6020A	07/23/14	125
	Chromium	**17.0**	mg/kg	0.472			EPA 6020A	07/23/14	125
	Nickel	**13.9**	mg/kg	0.472			EPA 6020A	07/23/14	125
	Zinc	**48.6**	mg/kg	0.472			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70814-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-002	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70814	**Sampling Time**	8:29 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-002	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70814	**Sampling Time**	8:29 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-002	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70814	**Sampling Time**	8:29 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.0156	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	4.5	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.0	70-130
4-Bromofluorobenzene	EPA 8260B	94.0	70-130
Toluene-d8	EPA 8260B	99.6	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-002	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70814	**Sampling Time**	8:29 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	4.5	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-002

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	94.6	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-002	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70814	**Sampling Time**	8:29 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	4.5	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	93.3	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70815	County: YAKIMA
Sample Location: DRUM2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70815-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: DRUM2**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 9:10 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	227-70815				
Sample ID	DRUM2				
Units	ppm	Limits			
Check Standards - Ave.Recovery:					
1,2-Dichlorobenzene-d4	89.6%	(70-130)			
4-Bromofluorobenzene	95.6%	(70-130)			
Toluene-d8	98.4%	(70-130)			
Dichlorodifluoromethane	ND	0.005			
Chloromethane	ND	0.005			
Vinyl chloride	ND	0.005			
Bromomethane	ND	0.005			
Chloroethane	ND	0.005			
Acetone	ND	0.025			
Acrolein	ND	0.005			
1,1-Dichloroethylene	ND	0.005			
Methylene chloride	ND	0.025			
Acrylonitrile	ND	0.005			
trans-1,2-Dichloroethylene	ND	0.005			
1,1-Dichloroethane	ND	0.005			
Methyl ethyl ketone (MEK)	ND	0.025			
cis-1,2-Dichloroethylene	ND	0.005			
2,2-Dichloropropane	ND	0.005			
Chloroform	ND	0.005			
Bromochloromethane	ND	0.005			
1,1,1-Trichloroethane	ND	0.005			
1,2-Dichloroethane	ND	0.005			
1,1-Dichloropropene	ND	0.005			
Carbon tetrachloride	ND	0.005			
Benzene	ND	0.005			
Trichloroethylene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

ND = None Detected

VALLEY Environmental Laboratory
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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70815				
Sample ID	DRUM2				
Units	ppm	Limts			
1,2-Dichloropropane	ND	0.005			
Dibromomethane	ND	0.005			
Bromodichloromethane	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Toluene	ND	0.005			
trans-1,3-Dichloropropene	ND	0.005			
1,1,2-Trichloroethane	ND	0.005			
1,3-Dichloropropane	ND	0.005			
Dibromochloromethane	ND	0.005			
Tetrachloroethylene	ND	0.005			
1,2-Dibromoethane	ND	0.001			
Chlorobenzene	ND	0.005			
1,1,1,2-Tetrachloroethane	ND	0.005			
Ethylbenzene	ND	0.005			
m,p-Xylene	ND	0.005			
Styrene	ND	0.005			
o-Xylene	ND	0.005			
Bromoform	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,2,3-Trichloropropane	ND	0.005			
Bromobenzene	ND	0.005			
n-Propylbenzene	ND	0.005			
2-Chlorotoluene	ND	0.005			
4-Chlorotoluene	ND	0.005			
1,3,5-Trimethylbenzene	ND	0.005			
tert-Butylbenzene	ND	0.005			
1,2,4-Trimethylbenzene	ND	0.005			
sec-Butylbenzene	ND	0.005			
1,3-Dichlorobenzene	ND	0.005			
1,4-Dichlorobenzene	ND	0.005			
4-Isopropyltoluene	ND	0.005			
1,2-Dichlorobenzene	ND	0.005			
n-Butylbenzene	ND	0.005			
1,2-Dibromo-3-chloropropane	ND	0.005			
1,2,4-Trichlorobenzene	ND	0.005			
Naphthalene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70815	County: YAKIMA
Sample Location: DRUM2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	**SAMPLE COMMENTS** Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	93.9	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70815-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70815	**County: YAKIMA**
Sample Location: DRUM-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**103.0**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70815-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70815	County: YAKIMA
Sample Location: DRUM2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.557			EPA 6020A	07/23/14	125
	Chromium	20.6	mg/kg	0.557			EPA 6020A	07/23/14	125
	Nickel	19.2	mg/kg	0.557			EPA 6020A	07/23/14	125
	Zinc	72.0	mg/kg	0.577			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70815-cdcrni

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-003	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70815	**Sampling Time**	9:10 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-003	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70815	**Sampling Time**	9:10 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-003	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70815	**Sampling Time**	9:10 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.0104	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	13.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	89.6	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	98.4	70-130

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-003	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70815	**Sampling Time**	9:10 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	13.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-003

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	93.9	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-003	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70815	**Sampling Time**	9:10 AM	**Extraction Date**	7/18/2014
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	13.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-003

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	103.0	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70816	**County: YAKIMA**
Sample Location: DRUM14	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70816-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: DRUM14**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 8:59 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	227-70816				
Sample ID	DRUM14				
Units	ppm	Limits			
Check Standards - Ave.Recovery:					
1,2-Dichlorobenzene-d4	88.4%	(70-130)			
4-Bromofluorobenzene	94.4%	(70-130)			
Toluene-d8	99.2%	(70-130)			
Dichlorodifluoromethane	ND	0.005			
Chloromethane	ND	0.005			
Vinyl chloride	ND	0.005			
Bromomethane	ND	0.005			
Chloroethane	ND	0.005			
Acetone	ND	0.025			
Acrolein	ND	0.005			
1,1-Dichloroethylene	ND	0.005			
Methylene chloride	ND	0.025			
Acrylonitrile	ND	0.005			
trans-1,2-Dichloroethylene	ND	0.005			
1,1-Dichloroethane	ND	0.005			
Methyl ethyl ketone (MEK)	ND	0.025			
cis-1,2-Dichloroethylene	ND	0.005			
2,2-Dichloropropane	ND	0.005			
Chloroform	ND	0.005			
Bromochloromethane	ND	0.005			
1,1,1-Trichloroethane	ND	0.005			
1,2-Dichloroethane	ND	0.005			
1,1-Dichloropropene	ND	0.005			
Carbon tetrachloride	ND	0.005			
Benzene	ND	0.005			
Trichloroethylene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

ND = None Detected

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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70816				
Sample ID	DRUM14				
Units	ppm	Limts			
1,2-Dichloropropane	ND	0.005			
Dibromomethane	ND	0.005			
Bromodichloromethane	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Toluene	ND	0.005			
trans-1,3-Dichloropropene	ND	0.005			
1,1,2-Trichloroethane	ND	0.005			
1,3-Dichloropropane	ND	0.005			
Dibromochloromethane	ND	0.005			
Tetrachloroethylene	ND	0.005			
1,2-Dibromoethane	ND	0.001			
Chlorobenzene	ND	0.005			
1,1,1,2-Tetrachloroethane	ND	0.005			
Ethylbenzene	ND	0.005			
m,p-Xylene	ND	0.005			
Styrene	ND	0.005			
o-Xylene	ND	0.005			
Bromoform	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,2,3-Trichloropropane	ND	0.005			
Bromobenzene	ND	0.005			
n-Propylbenzene	ND	0.005			
2-Chlorotoluene	ND	0.005			
4-Chlorotoluene	ND	0.005			
1,3,5-Trimethylbenzene	ND	0.005			
tert-Butylbenzene	ND	0.005			
1,2,4-Trimethylbenzene	ND	0.005			
sec-Butylbenzene	ND	0.005			
1,3-Dichlorobenzene	ND	0.005			
1,4-Dichlorobenzene	ND	0.005			
4-Isopropyltoluene	ND	0.005			
1,2-Dichlorobenzene	ND	0.005			
n-Butylbenzene	ND	0.005			
1,2-Dibromo-3-chloropropane	ND	0.005			
1,2,4-Trichlorobenzene	ND	0.005			
Naphthalene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70816					
Sample ID	DRUM14					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70816	**County: YAKIMA**
Sample Location: DRUM-14	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	**92.7**	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70816-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70816	**County: YAKIMA**
Sample Location: DRUM-14	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**110.0**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70816-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70816	**County: YAKIMA**
Sample Location: DRUM-14	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.54			EPA 6020A	07/23/14	125
	Chromium	**16.1**	mg/kg	0.54			EPA 6020A	07/23/14	125
	Nickel	**14.1**	mg/kg	0.54			EPA 6020A	07/23/14	125
	Zinc	**62.0**	mg/kg	0.54			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70816-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-004	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70816	**Sampling Time**	8:59 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-004	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70816	**Sampling Time**	8:59 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	8.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-004

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	110.0	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70817	**County: YAKIMA**
Sample Location: UST3-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	0.0333	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	0.032	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70817-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902

(509) 575-3999 Fax: (509) 575-3068
Washington State DOE Accredited Lab #C848

Sampled At: UST3-2

Date Reported: 07/29/14
Date Collected: 07/08/14
Time Collected: 9:53 AM
Sampled By: SDG

PLSA Engineering
Attn: Scott Garland
1120 West Lincoln Avenue
Yakima, WA 98902

Invoice# 27700

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	227-70817					
Sample ID	UST3-2					
Units	ppm	Limits				
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4	92.00%	(70-130)				
4-Bromofluorobenzene	95.60%	(70-130)				
Toluene-d8	98.80%	(70-130)				
Dichlorodifluoromethane	ND	0.005				
Chloromethane	ND	0.005				
Vinyl chloride	ND	0.005				
Bromomethane	ND	0.005				
Chloroethane	ND	0.005				
Acetone	ND	0.025				
Acrolein	ND	0.005				
1,1-Dichloroethylene	ND	0.005				
Methylene chloride	ND	0.025				
Acrylonitrile	ND	0.005				
trans-1,2-Dichloroethylene	ND	0.005				
1,1-Dichloroethane	ND	0.005				
Methyl ethyl ketone (MEK)	ND	0.025				
cis-1,2-Dichloroethylene	ND	0.005				
2,2-Dichloropropane	ND	0.005				
Chloroform	ND	0.005				
Bromochloromethane	ND	0.005				
1,1,1-Trichloroethane	ND	0.005				
1,2-Dichloroethane	ND	0.005				
1,1-Dichloropropene	ND	0.005				
Carbon tetrachloride	ND	0.005				
Benzene	ND	0.005				
Trichloroethylene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

ND = None Detected

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902

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Volatile Organic Compounds (Continued)

VEL Sample #	227-70817					
Sample ID	UST3-2					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	0.0333	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	0.0251	0.005				
Styrene	ND	0.005				
o-Xylene	0.00711	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	0.00568	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	0.0147	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	0.0235	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902

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Volatile Organic Compounds (Continued)

VEL Sample #	227-70817				
Sample ID	UST3-2				
Units	ppm	Limits			
1,1,1-Trichloroethane	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,1-Dichloroethene	ND	0.005			
1,2,3-Trichlorobenzene	ND	0.005			
1,2-Dichloroethane	ND	0.005			
2-hexanone	ND	0.025			
Bromoform	ND	0.005			
Carbon disulfide	ND	0.005			
Chlorobenzene	ND	0.005			
cis-1,2-dichloroethene	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Hexachlorobutadiene	ND	0.005			
Isopropylbenzene	ND	0.005			
Methyl Isobutyl ketone (MIBK)	ND	0.025			
methyl-t-butyl ether (MTBE)	ND	0.005			
p-siopropyltoluene	ND	0.005			
tert-Butylbenzene	ND	0.005			
trans-1,2-Dichloroethene	ND	0.005			
Trichlorofluoromethane	ND	0.005			
Tetrachloroethene	0.0427	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70817	**County: YAKIMA**
Sample Location: UST3-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	**0.0237**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	**0.0271**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	**0.0106**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	**0.0465**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	**0.0389**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	**0.0412**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	**0.0391**	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	**0.0545**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	**90.4**	%	18-137			EPA 8270D	07/17/14	125

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Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70817-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70817	**County: YAKIMA**
Sample Location: UST3-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**78.7**	%	30-130			EPA 8082	07/22/14	125

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Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70817-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70817	**County: YAKIMA**
Sample Location: UST3-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**0.595**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Chromium	**21.0**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Nickel	**18.6**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Zinc	**138**	mg/kg	0.531			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70817-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-005	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70817	**Sampling Time**	9:53 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	0.0147	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	0.00568	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-005	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70817	**Sampling Time**	9:53 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	0.0251	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	0.0235	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	0.00711	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-005	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70817	**Sampling Time**	9:53 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.0427	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	0.0333	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	9.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.0	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	98.8	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-005	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70817	**Sampling Time**	9:53 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	0.0545	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	0.0271	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	0.0237	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	0.0106	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	0.0465	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	0.0389	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	0.0412	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	0.0391	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	9.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-005

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	90.4	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-005	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70817	**Sampling Time**	9:53 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	9.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-005

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	78.7	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70818	County: YAKIMA
Sample Location: UST3-12	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70818-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: UST3-12**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 9:40 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample #	227-70818				
	Sample ID	UST3-12				
	Units	ppm	Limits			
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4		87.60%	(70-130)			
4-Bromofluorobenzene		95.20%	(70-130)			
Toluene-d8		98.80%	(70-130)			
Dichlorodifluoromethane		ND	0.005			
Chloromethane		ND	0.005			
Vinyl chloride		ND	0.005			
Bromomethane		ND	0.005			
Chloroethane		ND	0.005			
Acetone		ND	0.025			
Acrolein		ND	0.005			
1,1-Dichloroethylene		ND	0.005			
Methylene chloride		ND	0.025			
Acrylonitrile		ND	0.005			
trans-1,2-Dichloroethylene		ND	0.005			
1,1-Dichloroethane		ND	0.005			
Methyl ethyl ketone (MEK)		ND	0.025			
cis-1,2-Dichloroethylene		ND	0.005			
2,2-Dichloropropane		ND	0.005			
Chloroform		ND	0.005			
Bromochloromethane		ND	0.005			
1,1,1-Trichloroethane		ND	0.005			
1,2-Dichloroethane		ND	0.005			
1,1-Dichloropropene		ND	0.005			
Carbon tetrachloride		ND	0.005			
Benzene		ND	0.005			
Trichloroethylene		ND	0.005			
Date Analyzed:		7/17/2014				
Analyst:		125				

ND = None Detected

VALLEY Environmental Laboratory
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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70818					
Sample ID	UST3-12					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory
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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70818				
Sample ID	UST3-12				
Units	ppm	Limits			
1,1,1-Trichloroethane	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,1-Dichloroethene	ND	0.005			
1,2,3-Trichlorobenzene	ND	0.005			
1,2-Dichloroethane	ND	0.005			
2-hexanone	ND	0.025			
Bromoform	ND	0.005			
Carbon disulfide	ND	0.005			
Chlorobenzene	ND	0.005			
cis-1,2-dichloroethene	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Hexachlorobutadiene	ND	0.005			
Isopropylbenzene	ND	0.005			
Methyl Isobutyl ketone (MIBK)	ND	0.025			
methyl-t-butyl ether (MTBE)	ND	0.005			
p-siopropyltoluene	ND	0.005			
tert-Butylbenzene	ND	0.005			
trans-1,2-Dichloroethene	ND	0.005			
Trichlorofluoromethane	ND	0.005			
Tetrachloroethene	0.00783	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70818	**County: YAKIMA**
Sample Location: UST3-12	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	**0.0112**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	**92.2**	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70818-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70818	**County: YAKIMA**
Sample Location: UST3-12	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**97.4**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70818-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70818	**County: YAKIMA**
Sample Location: UST3-12	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Lead

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Chromium	**19.1**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Nickel	**17.4**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Zinc	**56.0**	mg/kg	0.531			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70818-cdcrni

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-006	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70818	**Sampling Time**	9:40 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-006	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70818	**Sampling Time**	9:40 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-006	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70818	**Sampling Time**	9:40 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.00783	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	4.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	87.6	70-130
4-Bromofluorobenzene	EPA 8260B	95.2	70-130
Toluene-d8	EPA 8260B	98.8	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-006	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70818	**Sampling Time**	9:40 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	0.0112	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	4.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-006

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	92.2	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-006	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70818	**Sampling Time**	9:40 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	4.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-006

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	97.4	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70819	County: YAKIMA
Sample Location: DWI-3	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70819-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, St 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: DWI-3**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 10:32 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	227-70819				
Sample ID	DWI-3				
Units	ppm	Limits			
Check Standards - Ave.Recovery:					
1,2-Dichlorobenzene-d4	88.00%	(70-130)			
4-Bromofluorobenzene	94.00%	(70-130)			
Toluene-d8	98.80%	(70-130)			
Dichlorodifluoromethane	ND	0.005			
Chloromethane	ND	0.005			
Vinyl chloride	ND	0.005			
Bromomethane	ND	0.005			
Chloroethane	ND	0.005			
Acetone	ND	0.025			
Acrolein	ND	0.005			
1,1-Dichloroethylene	ND	0.005			
Methylene chloride	ND	0.025			
Acrylonitrile	ND	0.005			
trans-1,2-Dichloroethylene	ND	0.005			
1,1-Dichloroethane	ND	0.005			
Methyl ethyl ketone (MEK)	ND	0.025			
cis-1,2-Dichloroethylene	ND	0.005			
2,2-Dichloropropane	ND	0.005			
Chloroform	ND	0.005			
Bromochloromethane	ND	0.005			
1,1,1-Trichloroethane	ND	0.005			
1,2-Dichloroethane	ND	0.005			
1,1-Dichloropropene	ND	0.005			
Carbon tetrachloride	ND	0.005			
Benzene	ND	0.005			
Trichloroethylene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

ND = None Detected

VALLEY Environmental Laboratory
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	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70819				
Sample ID	DWI-3				
Units	ppm	Limts			
1,2-Dichloropropane	ND	0.005			
Dibromomethane	ND	0.005			
Bromodichloromethane	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Toluene	ND	0.005			
trans-1,3-Dichloropropene	ND	0.005			
1,1,2-Trichloroethane	ND	0.005			
1,3-Dichloropropane	ND	0.005			
Dibromochloromethane	ND	0.005			
Tetrachloroethylene	ND	0.005			
1,2-Dibromoethane	ND	0.001			
Chlorobenzene	ND	0.005			
1,1,1,2-Tetrachloroethane	ND	0.005			
Ethylbenzene	ND	0.005			
m,p-Xylene	ND	0.005			
Styrene	ND	0.005			
o-Xylene	ND	0.005			
Bromoform	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,2,3-Trichloropropane	ND	0.005			
Bromobenzene	ND	0.005			
n-Propylbenzene	ND	0.005			
2-Chlorotoluene	ND	0.005			
4-Chlorotoluene	ND	0.005			
1,3,5-Trimethylbenzene	ND	0.005			
tert-Butylbenzene	ND	0.005			
1,2,4-Trimethylbenzene	ND	0.005			
sec-Butylbenzene	ND	0.005			
1,3-Dichlorobenzene	ND	0.005			
1,4-Dichlorobenzene	ND	0.005			
4-Isopropyltoluene	ND	0.005			
1,2-Dichlorobenzene	ND	0.005			
n-Butylbenzene	ND	0.005			
1,2-Dibromo-3-chloropropane	ND	0.005			
1,2,4-Trichlorobenzene	ND	0.005			
Naphthalene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70819					
Sample ID	DWI-3					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	0.00574	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-7019	**County: YAKIMA**
Sample Location: DWI-3	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	91.0	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70819-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70819	**County: YAKIMA**
Sample Location: DWI-3	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.511			EPA 6020A	07/23/14	125
	Chromium	**19.9**	mg/kg	0.511			EPA 6020A	07/23/14	125
	Nickel	**17.2**	mg/kg	0.511			EPA 6020A	07/23/14	125
	Zinc	**62.2**	mg/kg	0.511			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70819-cdcrni

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-007	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70819	**Sampling Time**	10:32 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-007	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70819	**Sampling Time**	10:32 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-007	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70819	**Sampling Time**	10:32 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.00574	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	6.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.0	70-130
4-Bromofluorobenzene	EPA 8260B	94.0	70-130
Toluene-d8	EPA 8260B	98.8	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-007	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70819	**Sampling Time**	10:32 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	6.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-007

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	91.0	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-007	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70819	**Sampling Time**	10:32 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	6.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-007

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	92.8	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70820	**County: YAKIMA**
Sample Location: DWI-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70820-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: DWI-13**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 10:15 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample #	227-70820				
	Sample ID	DWI-13				
	Units	ppm	Limits			
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4		88.00%	(70-130)			
4-Bromofluorobenzene		94.40%	(70-130)			
Toluene-d8		99.20%	(70-130)			
Dichlorodifluoromethane		ND	0.005			
Chloromethane		ND	0.005			
Vinyl chloride		ND	0.005			
Bromomethane		ND	0.005			
Chloroethane		ND	0.005			
Acetone		ND	0.025			
Acrolein		ND	0.005			
1,1-Dichloroethylene		ND	0.005			
Methylene chloride		ND	0.025			
Acrylonitrile		ND	0.005			
trans-1,2-Dichloroethylene		ND	0.005			
1,1-Dichloroethane		ND	0.005			
Methyl ethyl ketone (MEK)		ND	0.025			
cis-1,2-Dichloroethylene		ND	0.005			
2,2-Dichloropropane		ND	0.005			
Chloroform		ND	0.005			
Bromochloromethane		ND	0.005			
1,1,1-Trichloroethane		ND	0.005			
1,2-Dichloroethane		ND	0.005			
1,1-Dichloropropene		ND	0.005			
Carbon tetrachloride		ND	0.005			
Benzene		ND	0.005			
Trichloroethylene		ND	0.005			
Date Analyzed:		7/17/2014				
Analyst:		125				

ND = None Detected

VALLEY Environmental Laboratory
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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70820					
Sample ID	DWI-13					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory
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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70820					
Sample ID	DWI-13					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	0.00674	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70820	**County: YAKIMA**
Sample Location: DWI-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	**0.0139**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	**0.0119**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	**88.8**	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70820-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70820	**County: YAKIMA**
Sample Location: DWI-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**93.9**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70820-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70820	**County: YAKIMA**
Sample Location: DWI-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**20.0**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**18.7**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**68.7**	mg/kg	0.535			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70820-cdcrni

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-008	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70820	**Sampling Time**	10:15 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-008
Client Sample ID 70820
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 10:15 AM
Sample Location

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-008	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70820	**Sampling Time**	10:15 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.00674	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	9.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.0	70-130
4-Bromofluorobenzene	EPA 8260B	94.4	70-130
Toluene-d8	EPA 8260B	99.2	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-008	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70820	**Sampling Time**	10:15 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	0.0139	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	0.0119	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	9.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-008

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	88.8	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-008	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70820	**Sampling Time**	10:15 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	9.7	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-008

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	93.9	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70821	County: YAKIMA
Sample Location: UST2-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70821-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: UST2-2**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 11:16 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample #	227-70821				
	Sample ID	UST2-2				
	Units	ppm	Limits			
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4		87.60%	(70-130)			
4-Bromofluorobenzene		94.40%	(70-130)			
Toluene-d8		99.20%	(70-130)			
Dichlorodifluoromethane		ND	0.005			
Chloromethane		ND	0.005			
Vinyl chloride		ND	0.005			
Bromomethane		ND	0.005			
Chloroethane		ND	0.005			
Acetone		ND	0.025			
Acrolein		ND	0.005			
1,1-Dichloroethylene		ND	0.005			
Methylene chloride		ND	0.025			
Acrylonitrile		ND	0.005			
trans-1,2-Dichloroethylene		ND	0.005			
1,1-Dichloroethane		ND	0.005			
Methyl ethyl ketone (MEK)		ND	0.025			
cis-1,2-Dichloroethylene		ND	0.005			
2,2-Dichloropropane		ND	0.005			
Chloroform		ND	0.005			
Bromochloromethane		ND	0.005			
1,1,1-Trichloroethane		ND	0.005			
1,2-Dichloroethane		ND	0.005			
1,1-Dichloropropene		ND	0.005			
Carbon tetrachloride		ND	0.005			
Benzene		ND	0.005			
Trichloroethylene		ND	0.005			
Date Analyzed:		7/17/2014				
Analyst:		125				

ND = None Detected

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	70821					
Sample ID	UST2-2					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70821					
Sample ID	UST2-2					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	0.00647	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70821	County: YAKIMA
Sample Location: UST2-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	92.9	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70821-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70821	**County: YAKIMA**
Sample Location: UST2-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**84.4**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70821-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70821	**County: YAKIMA**
Sample Location: UST2-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**18.9**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**17.6**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**68.0**	mg/kg	0.535			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70821-cdcrni

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-009	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM	
Client Sample ID	70821	**Sampling Time**	11:16 AM				
Matrix	Soil	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-009	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70821	**Sampling Time**	11:16 AM			
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-009	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70821	**Sampling Time**	11:16 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.00647	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	7.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	87.6	70-130
4-Bromofluorobenzene	EPA 8260B	94.4	70-130
Toluene-d8	EPA 8260B	99.2	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-009	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70821	**Sampling Time**	11:16 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	7.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-009

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	92.9	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-009	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70821	**Sampling Time**	11:16 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	7.3	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-009

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	84.4	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70822	County: YAKIMA
Sample Location: UST2-11	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70822-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: UST2-11**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 11:07 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

VEL Sample #	**227-70822**					
Sample ID	**UST2-11**					
Units	**ppm**	**Limits**				
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4	88.40%	(70-130)				
4-Bromofluorobenzene	95.60%	(70-130)				
Toluene-d8	99.60%	(70-130)				
Dichlorodifluoromethane	ND	0.005				
Chloromethane	ND	0.005				
Vinyl chloride	ND	0.005				
Bromomethane	ND	0.005				
Chloroethane	ND	0.005				
Acetone	ND	0.025				
Acrolein	ND	0.005				
1,1-Dichloroethylene	ND	0.005				
Methylene chloride	ND	0.025				
Acrylonitrile	ND	0.005				
trans-1,2-Dichloroethylene	ND	0.005				
1,1-Dichloroethane	ND	0.005				
Methyl ethyl ketone (MEK)	ND	0.025				
cis-1,2-Dichloroethylene	ND	0.005				
2,2-Dichloropropane	ND	0.005				
Chloroform	ND	0.005				
Bromochloromethane	ND	0.005				
1,1,1-Trichloroethane	ND	0.005				
1,2-Dichloroethane	ND	0.005				
1,1-Dichloropropene	ND	0.005				
Carbon tetrachloride	ND	0.005				
Benzene	ND	0.005				
Trichloroethylene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

ND = None Detected

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)				
VEL Sample #	227-70822				
Sample ID	UST2-11				
Units	ppm	Limts			
1,2-Dichloropropane	ND	0.005			
Dibromomethane	ND	0.005			
Bromodichloromethane	ND	0.005			
cis-1,3-Dichloropropene	ND	0.005			
Toluene	ND	0.005			
trans-1,3-Dichloropropene	ND	0.005			
1,1,2-Trichloroethane	ND	0.005			
1,3-Dichloropropane	ND	0.005			
Dibromochloromethane	ND	0.005			
Tetrachloroethylene	ND	0.005			
1,2-Dibromoethane	ND	0.001			
Chlorobenzene	ND	0.005			
1,1,1,2-Tetrachloroethane	ND	0.005			
Ethylbenzene	ND	0.005			
m,p-Xylene	ND	0.005			
Styrene	ND	0.005			
o-Xylene	ND	0.005			
Bromoform	ND	0.005			
1,1,2,2-Tetrachloroethane	ND	0.005			
1,2,3-Trichloropropane	ND	0.005			
Bromobenzene	ND	0.005			
n-Propylbenzene	ND	0.005			
2-Chlorotoluene	ND	0.005			
4-Chlorotoluene	ND	0.005			
1,3,5-Trimethylbenzene	ND	0.005			
tert-Butylbenzene	ND	0.005			
1,2,4-Trimethylbenzene	ND	0.005			
sec-Butylbenzene	ND	0.005			
1,3-Dichlorobenzene	ND	0.005			
1,4-Dichlorobenzene	ND	0.005			
4-Isopropyltoluene	ND	0.005			
1,2-Dichlorobenzene	ND	0.005			
n-Butylbenzene	ND	0.005			
1,2-Dibromo-3-chloropropane	ND	0.005			
1,2,4-Trichlorobenzene	ND	0.005			
Naphthalene	ND	0.005			
Date Analyzed:	7/17/2014				
Analyst:	125				

VALLEY Environmental Laboratory
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Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70822					
Sample ID	UST2-11					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	0.00567	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70822	**County: YAKIMA**
Sample Location: UST2-11	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:

PLSA Engineering
Attn: Scott Garland
1120 West Lincoln Avenue
Yakima, WA 98902

SAMPLE COMMENTS **Matrix: Soil**

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	94.0	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70822-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70822	**County: YAKIMA**
Sample Location: UST2-11	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**85.3**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70822-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70822	**County: YAKIMA**
Sample Location: UST2-11	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**21.0**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**16.1**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**52.6**	mg/kg	0.535			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70822-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-010	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70822	**Sampling Time**	11:07 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-010	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM	
Client Sample ID	70822	**Sampling Time**	11:07 AM				
Matrix	Soil	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-010	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70822	**Sampling Time**	11:07 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	0.00567	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	3.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.4	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	99.6	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-010	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70822	**Sampling Time**	11:07 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	3.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-010

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	94.0	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-010	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70822	**Sampling Time**	11:07 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	3.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-010

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	85.3	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70823	County: YAKIMA
Sample Location: UST1-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70823-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: UST1-2**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 11:42 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample #	227-70823				
	Sample ID	UST1-2				
	Units	ppm	Limits			
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4		88.40%	(70-130)			
4-Bromofluorobenzene		94.40%	(70-130)			
Toluene-d8		99.20%	(70-130)			
Dichlorodifluoromethane		ND	0.005			
Chloromethane		ND	0.005			
Vinyl chloride		ND	0.005			
Bromomethane		ND	0.005			
Chloroethane		ND	0.005			
Acetone		ND	0.025			
Acrolein		ND	0.005			
1,1-Dichloroethylene		ND	0.005			
Methylene chloride		ND	0.025			
Acrylonitrile		ND	0.005			
trans-1,2-Dichloroethylene		ND	0.005			
1,1-Dichloroethane		ND	0.005			
Methyl ethyl ketone (MEK)		ND	0.025			
cis-1,2-Dichloroethylene		ND	0.005			
2,2-Dichloropropane		ND	0.005			
Chloroform		ND	0.005			
Bromochloromethane		ND	0.005			
1,1,1-Trichloroethane		ND	0.005			
1,2-Dichloroethane		ND	0.005			
1,1-Dichloropropene		ND	0.005			
Carbon tetrachloride		ND	0.005			
Benzene		ND	0.005			
Trichloroethylene		ND	0.005			
Date Analyzed:		7/17/2014				
Analyst:		125				

ND = None Detected

VALLEY Environmental Laboratory
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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70823					
Sample ID	UST1-2					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

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	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70823					
Sample ID	UST1-2					
Units	ppm	Limits				
1,1,1-Trichloroethane	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,1-Dichloroethene	ND	0.005				
1,2,3-Trichlorobenzene	ND	0.005				
1,2-Dichloroethane	ND	0.005				
2-hexanone	ND	0.025				
Bromoform	ND	0.005				
Carbon disulfide	ND	0.005				
Chlorobenzene	ND	0.005				
cis-1,2-dichloroethene	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Hexachlorobutadiene	ND	0.005				
Isopropylbenzene	ND	0.005				
Methyl Isobutyl ketone (MIBK)	ND	0.025				
methyl-t-butyl ether (MTBE)	ND	0.005				
p-siopropyltoluene	ND	0.005				
tert-Butylbenzene	ND	0.005				
trans-1,2-Dichloroethene	ND	0.005				
Trichlorofluoromethane	ND	0.005				
Tetrachloroethene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70823	County: YAKIMA
Sample Location: UST1-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG

Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	ND	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	93.7	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70823-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70823	**County: YAKIMA**
Sample Location: UST1-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**55.8**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70823-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70823	**County: YAKIMA**
Sample Location: UST1-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	14.7	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	13.4	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	49.6	mg/kg	0.535			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70823-cdcrni

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-011	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70823	**Sampling Time**	11:42 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-011	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70823	**Sampling Time**	11:42 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	1.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-011

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.4	70-130
4-Bromofluorobenzene	EPA 8260B	94.4	70-130
Toluene-d8	EPA 8260B	99.2	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-011	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70823	**Sampling Time**	11:42 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	1.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-011

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	93.7	18-137

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-011	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70823	**Sampling Time**	11:42 AM	**Extraction Date**	7/18/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	1.9	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-011

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	55.8	30-130

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

BTEX by EPA 8260B

Date Collected: 07/08/14	
Lab/Sample No: 227-70824	**County: YAKIMA**
Sample Location: UST1-10	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

BTEX by EPA 8260B

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Benzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Toluene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Ethylbenzene	ND	ppm	0.005			EPA 8260B	07/17/14	125
	Xylenes (m,p,o)	ND	ppm	0.005			EPA 8260B	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70824-btex

VALLEY Environmental Laboratory
15 W. Yakima Ave, Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: UST1-10**	**Date Reported:** 07/29/14 **Date Collected:** 07/08/14 **Time Collected:** 11:31 AM **Sampled By:** SDG
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27700**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Soil

	VEL Sample # 227-70824					
	Sample ID: UST1-10					
	Units: ppm	Limits				
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4	88.80%	(70-130)				
4-Bromofluorobenzene	94.40%	(70-130)				
Toluene-d8	98.40%	(70-130)				
Dichlorodifluoromethane	ND	0.005				
Chloromethane	ND	0.005				
Vinyl chloride	ND	0.005				
Bromomethane	ND	0.005				
Chloroethane	ND	0.005				
Acetone	ND	0.025				
Acrolein	ND	0.005				
1,1-Dichloroethylene	ND	0.005				
Methylene chloride	ND	0.025				
Acrylonitrile	ND	0.005				
trans-1,2-Dichloroethylene	ND	0.005				
1,1-Dichloroethane	ND	0.005				
Methyl ethyl ketone (MEK)	ND	0.025				
cis-1,2-Dichloroethylene	ND	0.005				
2,2-Dichloropropane	ND	0.005				
Chloroform	ND	0.005				
Bromochloromethane	ND	0.005				
1,1,1-Trichloroethane	ND	0.005				
1,2-Dichloroethane	ND	0.005				
1,1-Dichloropropene	ND	0.005				
Carbon tetrachloride	ND	0.005				
Benzene	ND	0.005				
Trichloroethylene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

ND = None Detected

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Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	227-70824					
Sample ID	UST1-10					
Units	ppm	Limts				
1,2-Dichloropropane	ND	0.005				
Dibromomethane	ND	0.005				
Bromodichloromethane	ND	0.005				
cis-1,3-Dichloropropene	ND	0.005				
Toluene	ND	0.005				
trans-1,3-Dichloropropene	ND	0.005				
1,1,2-Trichloroethane	ND	0.005				
1,3-Dichloropropane	ND	0.005				
Dibromochloromethane	ND	0.005				
Tetrachloroethylene	ND	0.005				
1,2-Dibromoethane	ND	0.001				
Chlorobenzene	ND	0.005				
1,1,1,2-Tetrachloroethane	ND	0.005				
Ethylbenzene	ND	0.005				
m,p-Xylene	ND	0.005				
Styrene	ND	0.005				
o-Xylene	ND	0.005				
Bromoform	ND	0.005				
1,1,2,2-Tetrachloroethane	ND	0.005				
1,2,3-Trichloropropane	ND	0.005				
Bromobenzene	ND	0.005				
n-Propylbenzene	ND	0.005				
2-Chlorotoluene	ND	0.005				
4-Chlorotoluene	ND	0.005				
1,3,5-Trimethylbenzene	ND	0.005				
tert-Butylbenzene	ND	0.005				
1,2,4-Trimethylbenzene	ND	0.005				
sec-Butylbenzene	ND	0.005				
1,3-Dichlorobenzene	ND	0.005				
1,4-Dichlorobenzene	ND	0.005				
4-Isopropyltoluene	ND	0.005				
1,2-Dichlorobenzene	ND	0.005				
n-Butylbenzene	ND	0.005				
1,2-Dibromo-3-chloropropane	ND	0.005				
1,2,4-Trichlorobenzene	ND	0.005				
Naphthalene	ND	0.005				
Date Analyzed:	7/17/2014					
Analyst:	125					

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Polynuclear Aromatic Hydrocarbons

Date Collected: 07/08/14	
Lab/Sample No: 227-70824	**County: YAKIMA**
Sample Location: UST1-10	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Polynuclear Aromatic Hydrocarbons

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Acenaphthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Acenaphthylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(a)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(b)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(ghi)perylene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Benzo(k)fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Chrysene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Dibenzo(a,h)anthracene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluoranthene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Fluorene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Indeno(1,2,3-cd)pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Naphthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Phenanthrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Pyrene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	2-Methylnapthalene	**ND**	mg/kg	0.01			EPA 8270D	07/17/14	125
	Surrogate Std:								
	Terphenyl-d14	**92.4**	%	18-137			EPA 8270D	07/17/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70824-8270pah

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Soil)

Date Collected: 07/08/14	
Lab/Sample No: 227-70824	**County: YAKIMA**
Sample Location: UST1-10	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's (Soil)

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Aroclor 1016	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1221	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1232	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1242	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1248	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1254	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Aroclor 1260	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	PCB 8082 (total)	**ND**	mg/kg	0.1			EPA 8082	07/22/14	125
	Surrogate Std:								
	DCB	**85.9**	%	30-130			EPA 8082	07/22/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70824-pcbs

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70824	**County: YAKIMA**
Sample Location: UST1-10	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**17.5**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**14.2**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**45.4**	mg/kg	0.535			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70824-cdcrni

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-012	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM	
Client Sample ID	70824	**Sampling Time**	11:31 AM				
Matrix	Soil	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.001	7/17/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
2-hexanone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Acetone	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Acrylonitrile	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Benzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-012	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70824	**Sampling Time**	11:31 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromoform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Bromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloroform	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dibromomethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	7/17/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Naphthalene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Styrene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-012	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70824	**Sampling Time**	11:31 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Toluene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	mg/kg	0.005	7/17/2014	SAT	EPA 8260B	
%moisture	5.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	88.8	70-130
4-Bromofluorobenzene	EPA 8260B	94.4	70-130
Toluene-d8	EPA 8260B	98.4	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-012	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014	11:20 AM
Client Sample ID	70824	**Sampling Time**	11:31 AM	**Extraction Date**	7/17/2014	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Acenaphthylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Chrysene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluoranthene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Fluorene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Naphthalene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Phenanthrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
Pyrene	ND	mg/Kg	0.01	7/17/2014	EMP	EPA 8270D	
%moisture	5.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-012

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	92.4	18-137

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013, MT:CERT0028; NM: ID00013; OR:ID200001-002, WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number	140714014-012	**Sampling Date**	7/8/2014	**Date/Time Received**	7/11/2014 11:20 AM
Client Sample ID	70824	**Sampling Time**	11:31 AM	**Extraction Date**	7/18/2014
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	mg/Kg	0.1	7/22/2014	SAT	EPA 8082	
PCB 8082 (total)	ND	mg/kg	0.1	7/22/2014	SAT	EPA 8082	
%moisture	5.2	Percent		7/17/2014	SAT	%moisture	

Surrogate Data

Sample Number 140714014-012

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	85.9	30-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

JUNE 2014
GROUNDWATER
ANALYTICAL RESULTS

VALLEY Environmental Laboratory
15 W Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: W1**	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:22 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Water

VEL Sample #	**62315**				
Sample ID	**140623-W1**				
Units	**ug/L**	**Limits**			
Check Standards - Ave.Recovery:					
1,2-Dichlorobenzene-d4	107.6%	(70-130)			
4-Bromofluorobenzene	100.4%	(70-130)			
Toluene-d8	101.2%	(70-130)			
Dichlorodifluoromethane	ND	0.50			
Chloromethane	ND	0.50			
Vinyl chloride	ND	0.50			
Bromomethane	ND	0.50			
Chloroethane	ND	0.50			
Acetone	ND	5.00			
Acrolein	ND	0.50			
1,1-Dichloroethylene	ND	0.50			
Methylene chloride	ND	5.00			
Acrylonitrile	ND	0.50			
trans-1,2-Dichloroethylene	ND	0.50			
1,1-Dichloroethane	ND	0.50			
Methyl ethyl ketone (MEK)	ND	5.00			
cis-1,2-Dichloroethylene	ND	0.50			
2,2-Dichloropropane	ND	0.50			
Chloroform	2.70	0.50			
Bromochloromethane	ND	0.50			
1,1,1-Trichloroethane	ND	0.50			
1,2-Dichloroethane	ND	0.50			
1,1-Dichloropropene	ND	0.50			
Carbon tetrachloride	ND	0.50			
Benzene	ND	0.50			
Trichloroethylene	ND	0.50			
Date Analyzed:	6/30/2014				
Analyst:	AAL				

ND = None Detected

VALLEY Environmental Laboratory
15 W Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	62315					
Sample ID	140623-W1					
Units	ug/L	Limts				
1,2-Dichloropropane	ND	0.50				
Dibromomethane	ND	0.50				
Bromodichloromethane	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Toluene	ND	0.50				
trans-1,3-Dichloropropene	ND	0.50				
1,1,2-Trichloroethane	ND	0.50				
1,3-Dichloropropane	ND	0.50				
Dibromochloromethane	ND	0.50				
Tetrachloroethylene	1.02	0.50				
1,2-Dibromoethane	ND	0.50				
Chlorobenzene	ND	0.50				
1,1,1,2-Tetrachloroethane	ND	0.50				
Ethylbenzene	ND	0.50				
m,p-Xylene	ND	0.50				
Styrene	ND	0.50				
o-Xylene	ND	0.50				
Bromoform	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,2,3-Trichloropropane	ND	0.50				
Bromobenzene	ND	0.50				
n-Propylbenzene	ND	0.50				
2-Chlorotoluene	ND	0.50				
4-Chlorotoluene	ND	0.50				
1,3,5-Trimethylbenzene	ND	0.50				
tert-Butylbenzene	ND	0.50				
1,2,4-Trimethylbenzene	ND	0.50				
sec-Butylbenzene	ND	0.50				
1,3-Dichlorobenzene	ND	0.50				
1,4-Dichlorobenzene	ND	0.50				
4-Isopropyltoluene	ND	0.50				
1,2-Dichlorobenzene	ND	0.50				
n-Butylbenzene	ND	0.50				
1,2-Dibromo-3-chloropropane	ND	0.50				
1,2,4-Trichlorobenzene	ND	0.50				
Naphthalene	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

VALLEY Environmental Laboratory
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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)					
VEL Sample #	62315					
Sample ID	140623-W1					
Units	ug/L	Limits				
1,1,1-Trichloroethane	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,1-Dichloroethene	ND	0.50				
1,2,3-Trichlorobenzene	ND	0.50				
1,2-Dichloroethane	ND	0.50				
2-hexanone	ND	0.50				
Bromoform	ND	0.50				
Carbon disulfide	ND	0.50				
Chlorobenzene	ND	0.50				
cis-1,2-dichloroethene	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Hexachlorobutadiene	ND	0.50				
Isopropylbenzene	ND	0.50				
Methyl Isobutyl ketone (MIBK)	ND	5.00				
methyl-t-butyl ether (MTBE)	ND	0.50				
p-siopropyltoluene	ND	0.50				
tert-Butylbenzene	ND	0.50				
trans-1,2-Dichloroethene	ND	0.50				
Trichlorofluoromethane	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

VALLEY Environmental Laboratory
15 W. Yakima Ave Ste 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Sampled At: W1	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:22 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**

Priority pollutants-SOC's — **Method:** EPA 8270C — **Matrix:** Water

VEL Sample #	**62315**					
Sample ID	**140623-W1**					
Surrogate Standards	**Results**					
p-Terphenyl-d14	98%	10-125				
Acenaphthylene	ND@0.01	ug/L				
Acenaphthene	ND@0.01	ug/L				
Fluorene	ND@0.01	ug/L				
Phenanthrene	ND@0.01	ug/L				
Anthracene	ND@0.01	ug/L				
Fluoranthene	ND@0.01	ug/L				
Pyrene	ND@0.01	ug/L				
2-Methylphenol	ND@0.01	ug/L				
Benzo(a)anthracene	ND@0.01	ug/L				
Chrysene	ND@0.01	ug/L				
Benzo(b)fluoranthene	ND@0.01	ug/L				
Benzo(k)fluoranthene	ND@0.01	ug/L				
Benzo(a)pyrene	ND@0.01	ug/L				
Indeno(1,2,3-cd)pyrene	ND@0.01	ug/L				
Dibenzo(a,h)anthracene	ND@0.01	ug/L				
Benzo(ghi)perylene	ND@0.01	ug/L				
Naphthalene	ND@0.01	ug/L				
Date Analyzed:	7/14/2014					
Analyst:	125					

ND = None Detected

62315-8270

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 06/23/14	
Lab/Sample No: 227-62315	**County: YAKIMA**
Sample Location: W1	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garla
Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
9	Lead	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
24	Zinc	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
7	Chromium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
111	Nickel	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

62315-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's

Date Collected: 06/23/14	
Lab/Sample No: 227-62315	**County: YAKIMA**
Sample Location: W1	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garland
Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	PCB's	ND	ug/L	0.1			EPA 8082	07/09/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

62315-pcbs

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number 140630030-001
Client Sample ID 62315
Matrix Water
Comments

Sampling Date 6/23/2014
Sampling Time 2:22 PM
Sample Location

Date/Time Received 6/26/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.01	6/30/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Acetone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-001	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62315	**Sampling Time**	2:22 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroform	2.70	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number 140630030-001
Client Sample ID 62315
Matrix Water
Comments

Sampling Date 6/23/2014
Sampling Time 2:22 PM
Sample Location

Date/Time Received 6/26/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Styrene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Tetrachloroethene	1.02	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 140630030-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	107.6	70-130
4-Bromofluorobenzene	EPA 8260B	100.4	70-130
Toluene-d8	EPA 8260B	101.2	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-001	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62315	**Sampling Time**	2:22 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Chrysene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluorene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Naphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-001	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62315	**Sampling Time**	2:22 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Phenanthrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

Surrogate Data

Sample Number 140630030-001

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	98.4	10-125

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	VALLEY ENVIRONMENTAL LAB	**Batch #:**	140630030
Address:	15 W. YAKIMA AVE STE210 YAKIMA, WA 98901	**Project Name:**	MONITORING WELLS
Attn:	DARA OSBORNE		

Analytical Results Report

Sample Number	140630030-001	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62315	**Sampling Time**	2:22 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Chromium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Lead	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Nickel	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Zinc	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-001	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62315	**Sampling Time**	2:22 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1221 (PCB-1221)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1232 (PCB-1232)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1242 (PCB-1242)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1248 (PCB-1248)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1254 (PCB-1254)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1260 (PCB-1260)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
PCB (total)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4

Surrogate Data

Sample Number 140630030-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	147.2	30-130

VALLEY Environmental Laboratory
15 W. Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: W2**	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:30 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Water

VEL Sample #	**62316**					
Sample ID	**140623-W2**					
Units	**ug/L**	**Limits**				
Check Standards - Ave.Recovery:						
1,2-Dichlorobenzene-d4	104.8%	(70-130)				
4-Bromofluorobenzene	99.2%	(70-130)				
Toluene-d8	101.2%	(70-130)				
Dichlorodifluoromethane	ND	0.50				
Chloromethane	ND	0.50				
Vinyl chloride	ND	0.50				
Bromomethane	ND	0.50				
Chloroethane	ND	0.50				
Acetone	ND	5.00				
Acrolein	ND	0.50				
1,1-Dichloroethylene	ND	0.50				
Methylene chloride	ND	5.00				
Acrylonitrile	ND	0.50				
trans-1,2-Dichloroethylene	ND	0.50				
1,1-Dichloroethane	ND	0.50				
Methyl ethyl ketone (MEK)	ND	5.00				
cis-1,2-Dichloroethylene	ND	0.50				
2,2-Dichloropropane	ND	0.50				
Chloroform	2.74	0.50				
Bromochloromethane	ND	0.50				
1,1,1-Trichloroethane	ND	0.50				
1,2-Dichloroethane	ND	0.50				
1,1-Dichloropropene	ND	0.50				
Carbon tetrachloride	ND	0.50				
Benzene	ND	0.50				
Trichloroethylene	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

ND = None Detected

VALLEY Environmental Laboratory
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Yakima, WA 98902
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	Volatile Organic Compounds (Continued)					
VEL Sample #	62316					
Sample ID	140623-W2					
Units	ug/L	Limts				
1,2-Dichloropropane	ND	0.50				
Dibromomethane	ND	0.50				
Bromodichloromethane	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Toluene	ND	0.50				
trans-1,3-Dichloropropene	ND	0.50				
1,1,2-Trichloroethane	ND	0.50				
1,3-Dichloropropane	ND	0.50				
Dibromochloromethane	ND	0.50				
Tetrachloroethylene	2.0	0.50				
1,2-Dibromoethane	ND	0.50				
Chlorobenzene	ND	0.50				
1,1,1,2-Tetrachloroethane	ND	0.50				
Ethylbenzene	ND	0.50				
m,p-Xylene	ND	0.50				
Styrene	ND	0.50				
o-Xylene	ND	0.50				
Bromoform	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,2,3-Trichloropropane	ND	0.50				
Bromobenzene	ND	0.50				
n-Propylbenzene	ND	0.50				
2-Chlorotoluene	ND	0.50				
4-Chlorotoluene	ND	0.50				
1,3,5-Trimethylbenzene	ND	0.50				
tert-Butylbenzene	ND	0.50				
1,2,4-Trimethylbenzene	ND	0.50				
sec-Butylbenzene	ND	0.50				
1,3-Dichlorobenzene	ND	0.50				
1,4-Dichlorobenzene	ND	0.50				
4-Isopropyltoluene	ND	0.50				
1,2-Dichlorobenzene	ND	0.50				
n-Butylbenzene	ND	0.50				
1,2-Dibromo-3-chloropropane	ND	0.50				
1,2,4-Trichlorobenzene	ND	0.50				
Naphthalene	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

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	Volatile Organic Compounds (Continued)					
VEL Sample #	62316					
Sample ID	140623-W2					
Units	ug/L	Limits				
1,1,1-Trichloroethane	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,1-Dichloroethene	ND	0.50				
1,2,3-Trichlorobenzene	ND	0.50				
1,2-Dichloroethane	ND	0.50				
2-hexanone	ND	0.50				
Bromoform	ND	0.50				
Carbon disulfide	ND	0.50				
Chlorobenzene	ND	0.50				
cis-1,2-dichloroethene	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Hexachlorobutadiene	ND	0.50				
Isopropylbenzene	ND	0.50				
Methyl Isobutyl ketone (MIBK)	ND	5.00				
methyl-t-butyl ether (MTBE)	ND	0.50				
p-siopropyltoluene	ND	0.50				
tert-Butylbenzene	ND	0.50				
trans-1,2-Dichloroethene	ND	0.50				
Trichlorofluoromethane	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

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Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Sampled At: W2	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:30 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**
Priority pollutants-SOC's	**Method:** EPA 8270C **Matrix:** Water

VEL Sample #	**62316**					
Sample ID	**140623-W2**					
Surrogate Standards	**Results**					
p-Terphenyl-d14	98.2%	10-125				
Acenaphthylene	ND@0.01	ug/L				
Acenaphthene	ND@0.01	ug/L				
Fluorene	ND@0.01	ug/L				
Phenanthrene	ND@0.01	ug/L				
Anthracene	ND@0.01	ug/L				
Fluoranthene	ND@0.01	ug/L				
Pyrene	ND@0.01	ug/L				
2-Methylphenol	ND@0.01	ug/L				
Benzo(a)anthracene	ND@0.01	ug/L				
Chrysene	ND@0.01	ug/L				
Benzo(b)fluoranthene	ND@0.01	ug/L				
Benzo(k)fluoranthene	ND@0.01	ug/L				
Benzo(a)pyrene	ND@0.01	ug/L				
Indeno(1,2,3-cd)pyrene	ND@0.01	ug/L				
Dibenzo(a,h)anthracene	ND@0.01	ug/L				
Benzo(ghi)perylene	ND@0.01	ug/L				
Naphthalene	ND@0.01	ug/L				
Date Analyzed:	7/14/2014					
Analyst:	125					

ND = None Detected

62316-8270

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 06/23/14	
Lab/Sample No: 227-62316	**County: YAKIMA**
Sample Location: W2	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garla
Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
9	Lead	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
24	Zinc	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
7	Chromium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
111	Nickel	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

62316-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Water)

Date Collected: 06/23/14	
Lab/Sample No: 227-62316	**County: YAKIMA**
Sample Location: W2	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garland

Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

PCB's

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	PCB's	ND	ug/L	0.1			EPA 8082	07/09/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

62316-pcbs

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM			
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.01	6/30/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Acetone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroform	2.74	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Tetrachloroethene	1.98	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 140630030-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	104.8	70-130
4-Bromofluorobenzene	EPA 8260B	99.2	70-130
Toluene-d8	EPA 8260B	101.2	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Chrysene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluorene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Naphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Phenanthrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

Surrogate Data

Sample Number 140630030-002

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	98.2	10-125

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Client:	VALLEY ENVIRONMENTAL LAB	**Batch #:**	140630030
Address:	15 W. YAKIMA AVE STE210 YAKIMA, WA 98901	**Project Name:**	MONITORING WELLS
Attn:	DARA OSBORNE		

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Chromium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Lead	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Nickel	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Zinc	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-002	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62316	**Sampling Time**	2:30 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1221 (PCB-1221)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1232 (PCB-1232)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1242 (PCB-1242)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1248 (PCB-1248)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1254 (PCB-1254)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1260 (PCB-1260)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
PCB (total)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4

Surrogate Data

Sample Number 140630030-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	141.6	30-130

VALLEY Environmental Laboratory
15 W Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

Washington State DOE Accredited Lab #C345 **Sampled At: W3**	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:52 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**

Volatile Organic Chemicals — **Method:** EPA 8260B — **Matrix:** Water

	VEL Sample #	Sample ID	Units	Limits
	62317	**140623-W3**	**ug/L**	**Limits**
Check Standards - Ave.Recovery:				
1,2-Dichlorobenzene-d4	106.4%			(70-130)
4-Bromofluorobenzene	101.2%			(70-130)
Toluene-d8	100.8%			(70-130)
Dichlorodifluoromethane	ND			0.50
Chloromethane	ND			0.50
Vinyl chloride	ND			0.50
Bromomethane	ND			0.50
Chloroethane	ND			0.50
Acetone	ND			5.00
Acrolein	ND			0.50
1,1-Dichloroethylene	ND			0.50
Methylene chloride	ND			5.00
Acrylonitrile	ND			0.50
trans-1,2-Dichloroethylene	ND			0.50
1,1-Dichloroethane	ND			0.50
Methyl ethyl ketone (MEK)	ND			5.00
cis-1,2-Dichloroethylene	ND			0.50
2,2-Dichloropropane	ND			0.50
Chloroform	2.57			0.50
Bromochloromethane	ND			0.50
1,1,1-Trichloroethane	ND			0.50
1,2-Dichloroethane	ND			0.50
1,1-Dichloropropene	ND			0.50
Carbon tetrachloride	ND			0.50
Benzene	ND			0.50
Trichloroethylene	ND			0.50
Date Analyzed:	6/30/2014			
Analyst:	AAL			

ND = None Detected

VALLEY Environmental Laboratory
15 W Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	62317					
Sample ID	140623-W3					
Units	ug/L	Limts				
1,2-Dichloropropane	ND	0.50				
Dibromomethane	ND	0.50				
Bromodichloromethane	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Toluene	ND	0.50				
trans-1,3-Dichloropropene	ND	0.50				
1,1,2-Trichloroethane	ND	0.50				
1,3-Dichloropropane	ND	0.50				
Dibromochloromethane	ND	0.50				
Tetrachloroethylene	1.73	0.50				
1,2-Dibromoethane	ND	0.50				
Chlorobenzene	ND	0.50				
1,1,1,2-Tetrachloroethane	ND	0.50				
Ethylbenzene	ND	0.50				
m,p-Xylene	ND	0.50				
Styrene	ND	0.50				
o-Xylene	ND	0.50				
Bromoform	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,2,3-Trichloropropane	ND	0.50				
Bromobenzene	ND	0.50				
n-Propylbenzene	ND	0.50				
2-Chlorotoluene	ND	0.50				
4-Chlorotoluene	ND	0.50				
1,3,5-Trimethylbenzene	ND	0.50				
tert-Butylbenzene	ND	0.50				
1,2,4-Trimethylbenzene	ND	0.50				
sec-Butylbenzene	ND	0.50				
1,3-Dichlorobenzene	ND	0.50				
1,4-Dichlorobenzene	ND	0.50				
4-Isopropyltoluene	ND	0.50				
1,2-Dichlorobenzene	ND	0.50				
n-Butylbenzene	ND	0.50				
1,2-Dibromo-3-chloropropane	ND	0.50				
1,2,4-Trichlorobenzene	ND	0.50				
Naphthalene	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

VALLEY Environmental Laboratory
15 W Yakima Ave Ste. 210
Yakima, WA 98902
(509) 575 - 3999 Fax: (509) 575 - 3068

	Volatile Organic Compounds (Continued)					
VEL Sample #	62317					
Sample ID	140623-W3					
Units	ug/L	Limits				
1,1,1-Trichloroethane	ND	0.50				
1,1,2,2-Tetrachloroethane	ND	0.50				
1,1-Dichloroethene	ND	0.50				
1,2,3-Trichlorobenzene	ND	0.50				
1,2-Dichloroethane	ND	0.50				
2-hexanone	ND	0.50				
Bromoform	ND	0.50				
Carbon disulfide	ND	0.50				
Chlorobenzene	ND	0.50				
cis-1,2-dichloroethene	ND	0.50				
cis-1,3-Dichloropropene	ND	0.50				
Hexachlorobutadiene	ND	0.50				
Isopropylbenzene	ND	0.50				
Methyl Isobutyl ketone (MIBK)	ND	5.00				
methyl-t-butyl ether (MTBE)	ND	0.50				
p-siopropyltoluene	ND	0.50				
tert-Butylbenzene	ND	0.50				
trans-1,2-Dichloroethene	ND	0.50				
Trichlorofluoromethane	ND	0.50				
Date Analyzed:	6/30/2014					
Analyst:	AAL					

VALLEY Environmental Laboratory
201 East D Street
Yakima, WA 98901
(509) 575 - 3999 Fax: (509) 575 - 3068

Sampled At: W3	**Date Reported:** 07/15/14 **Date Collected:** 06/23/14 **Time Collected:** 2:52 PM **Sampled By:** Brad Card./Scott Garland
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	**Invoice#** **27607**
Priority pollutants-SOC's	**Method:** EPA 8270C **Matrix:** Water

VEL Sample #	**62317**					
Sample ID	**140623-W3**					
Surrogate Standards	**Results**					
p-Terphenyl-d14	101.7%	10-125				
Acenaphthylene	ND@0.01	ug/L				
Acenaphthene	ND@0.01	ug/L				
Fluorene	ND@0.01	ug/L				
Phenanthrene	ND@0.01	ug/L				
Anthracene	ND@0.01	ug/L				
Fluoranthene	ND@0.01	ug/L				
Pyrene	ND@0.01	ug/L				
2-Methylphenol	ND@0.01	ug/L				
Benzo(a)anthracene	ND@0.01	ug/L				
Chrysene	ND@0.01	ug/L				
Benzo(b)fluoranthene	ND@0.01	ug/L				
Benzo(k)fluoranthene	ND@0.01	ug/L				
Benzo(a)pyrene	ND@0.01	ug/L				
Indeno(1,2,3-cd)pyrene	ND@0.01	ug/L				
Dibenzo(a,h)anthracene	ND@0.01	ug/L				
Benzo(ghi)perylene	ND@0.01	ug/L				
Naphthalene	ND@0.01	ug/L				
Date Analyzed:	7/14/2014					
Analyst:	125					

ND = None Detected

62317-8270

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

IOC PP Metals

Date Collected: 06/23/14	
Lab/Sample No: 227-62317	**County: YAKIMA**
Sample Location: W3	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garland
Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

IOC PP Metals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
9	Lead	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
24	Zinc	**0.00116**	mg/L	0.001			EPA 6020A	07/07/14	AAL
6	Cadmium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
7	Chromium	**ND**	mg/L	0.001			EPA 6020A	07/07/14	AAL
111	Nickel	**0.00153**	mg/L	0.001			EPA 6020A	07/07/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

62317-ppmetals

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

PCB's (Water)

Date Collected: 06/23/14	
Lab/Sample No: 227-63217	County: YAKIMA
Sample Location: W3	
	Date Received: 06/23/14
	Date Reported: 07/15/14
	Sample Collected By: Brad Card./Scott Garland
Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

PCB's

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	PCB's	ND	ug/L	0.1			EPA 8082	07/09/14	AAL

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

62317-pcbs

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.01	6/30/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Acetone	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM	
Client Sample ID	62317	**Sampling Time**	2:52 PM				
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloroform	2.57	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	6/30/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
tert-Butylbenzene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Tetrachloroethene	1.73	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	6/30/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 140630030-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	106.4	70-130
4-Bromofluorobenzene	EPA 8260B	101.2	70-130
Toluene-d8	EPA 8260B	100.8	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-Methylnaphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Acenaphthylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo(ghi)perylene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[a]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[b]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Benzo[k]fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Chrysene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Dibenz[a,h]anthracene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluoranthene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Fluorene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Naphthalene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014	11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM	**Extraction Date**	6/30/2014	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Phenanthrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	
Pyrene	ND	ug/L	0.01	7/14/2014	EMP	EPA 8270D	

Surrogate Data

Sample Number 140630030-003

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	101.7	10-125

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	VALLEY ENVIRONMENTAL LAB	**Batch #:**	140630030
Address:	15 W. YAKIMA AVE STE210 YAKIMA, WA 98901	**Project Name:**	MONITORING WELLS
Attn:	DARA OSBORNE		

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cadmium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Chromium	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Lead	ND	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Nickel	0.00153	mg/L	0.001	7/7/2014	ETL	EPA 6020A	
Zinc	0.00116	mg/L	0.001	7/7/2014	ETL	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140630030
Project Name: MONITORING WELLS

Analytical Results Report

Sample Number	140630030-003	**Sampling Date**	6/23/2014	**Date/Time Received**	6/26/2014 11:50 AM
Client Sample ID	62317	**Sampling Time**	2:52 PM	**Extraction Date**	6/30/2014
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	7/9/2014	MAH	EPA 8082	S4
Aroclor 1221 (PCB-1221)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1232 (PCB-1232)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1242 (PCB-1242)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1248 (PCB-1248)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1254 (PCB-1254)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
Aroclor 1260 (PCB-1260)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4
PCB (total)	ND	ug/L	0.1	7/9/2014	MAH	EPA 8082	S4

Surrogate Data

Sample Number 140630030-003

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	152.8	30-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit
S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

CHAIN OF CUSTODY RECORD

201 East D Street
Yakima, WA 98901
(509) 575 – 3999
Fax: (509) 575 - 3068

THIS INFORMATION WILL BE FOR REPORTING/BILLING* (SEE BELOW)

CLIENT: PLSA
ADDRESS: 1120 W. Lincoln Ave., Yakima, WA 98902
ATTENTION: Brad Card
PROJECT NAME: 14006
PROJECT CONTACT: Brad Card
TELEPHONE: 509 575 6990 FAX: 575 6993
Sampled By: B. Card/S. Garland

WORK ORDER ID # ______
PAGE 1 OF 1

TESTS TO PERFORM

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: (WATER) SOIL OR SPECIFY	NO. OF CONTAINERS	BTEX EPA 8260	EDB EPA 504.1	EDC EPA 8260	MTBE EPA 8260	Total Lead EPA 6000 or 7000	PAH 8270SIM	Naphthalenes EPA 8270	PCB EPA 8082	Hal VOC EPA 8260	Cadmium EPA 6000 or 7000	Chromium Total	Nickel	Zinc				OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	140623-W1	6/23/14		W	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	140623-W2	↓		↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	140623-W3	↓		↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFORMATION IF DIFFERENT THAN ABOVE
NAME: PLSA Engineering + Surveying
ADDRESS: 1120 W. Lincoln Ave
ATTN: B. Card
CITY, STATE, ZIP: Yakima, WA 98902

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS

- [x] Std. 10-14 Business Days
- [ ] 24-48 Hrs. 100% Rush
- [ ] 3-Day Rush – 80%
- [ ] 1 week Rush – 50%

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME	RECEIVED BY (SIGN AND PRINT)	DATE / TIME
[signature]	6-23-14 3:55	[signature] Valley Lab	6/23/14 15:56

NOVEMBER 2014
GROUNDWATER
ANALYTICAL RESULTS

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

NWTPH-HCID

Date Collected: 11/20/14	
Lab/Sample No: 227-05205	**County: YAKIMA**
Sample Location: 141120-W2	
	Date Received: 11/21/14
	Date Reported: 12/15/14
	Sample Collected By: Scott
Send Report To:	**SAMPLE COMMENTS** **Matrix: Water**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	Tidrick

NWTPH-HCID

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Hydrocarbon ID	NONE					WATPH-HCID	12/09/14	125
	% Surrogate Recovery	108.8	%				(50 - 150)	12/09/14	125
	Diesel	<0.63	mg/L	0.63			WATPH-HCID	12/09/14	125
	Gasoline	<0.25	mg/L	0.25			WATPH-HCID	12/09/14	125
	Lube Oil	<0.63	mg/L	0.63			WATPH-HCID	12/09/14	125

QC ID	Units	Diesel Results	True Value	% Recovery	Limits	% RPD
LCS (lab Control Sample)	mg/L	0.276	0.5	55.2	50-150	
MB (method blank)	mg/L	ND	ND			
LCSD(Lab Control Sample Duplicate	mg/L	0.3	0.5	60.6	0-50	9.3

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

05205-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

VOLATILE ORGANIC CHEMICALS (VOCs) ANALYSIS REPORT

Lab/Sample No: 227-05205	Date Collected: 11/20/14	
Date Received: 11/21/14	Date Reported: 12/15/14	Supervisor: DCO
	Date Analyzed: 12/04/14	Analyst: 125
	Sampled By: Scott	
Sample Location: 141120-W2		Invoice#: 28371

Send Report To:	Sample Information Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Tidrick

Volatile Organic Chemicals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Exceeds?	
	EPA REGULATED						Trigger?	MCL?
45	Vinyl chloride	ND	µg/L	0.50	0.50	2.0	N	N
46	1,1-Dichloroethylene	ND	µg/L	0.50	0.50	7.0	N	N
47	1,1,1-Trichloroethane	ND	µg/L	0.50	0.50	200	N	N
48	Carbon tetrachloride	ND	µg/L	0.50	0.50	5.0	N	N
49	Benzene	ND	µg/L	0.50	0.50	5.0	N	N
50	1,2-Dichloroethane	ND	µg/L	0.50	0.50	5.0	N	N
51	Trichloroethylene	ND	µg/L	0.50	0.50	5.0	N	N
52	1,4-Dichlorobenzene	ND	µg/L	0.50	0.50	75	N	N
56	Dichloromethane	ND	µg/L	0.50	0.50	5.0	N	N
57	trans-1,2-Dichloroethylene	ND	µg/L	0.50	0.50	100	N	N
60	cis-1,2-Dichloroethylene	1.1	µg/L	0.50	0.50	70	N	N
63	1,2-Dichloropropane	ND	µg/L	0.50	0.50	5.0	N	N
66	Toluene	ND	µg/L	0.50	0.50	1000	N	N
67	1,1,2-Trichloroethane	ND	µg/L	0.50	0.50	5.0	N	N
68	Tetrachloroethene	2.46	µg/L	0.50	0.50	5.0	N	N
71	Chlorobenzene	ND	µg/L	0.50	0.50	100	N	N
73	Ethylbenzene	ND	µg/L	0.50	0.50	700	N	N
76	Styrene	ND	µg/L	0.50	0.50	100	N	N
84	1,2-Dichlorobenzene	ND	µg/L	0.50	0.50	600	N	N
95	1,2,4-Trichlorobenzene	ND	µg/L	0.50	0.50	70	N	N
160	Total Xylenes	ND	µg/L	0.50	0.50	10000	N	N
74	m,p-Xylenes (MCL for Total)	ND	µg/L	0.50	0.50		N	N
75	o-Xylene (MCL for Total)	ND	µg/L	0.50	0.50		N	N

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

MNa15 W Yakima Ave Ste 210 WA 98902 509-575-3999 Fax: 509-575-3068

05205-voc

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Lab Sample No: 22705205			VOC's Analysis Report - Page 2			
DOH#	Analytes	Results	Units	SRL	Trigger	MCL
	EPA UNREGULATED					
27	Chloroform	**3.00**	µg/L	0.50		
28	Bromodichloromethane	**ND**	µg/L	0.50		
29	Dibromochloromethane	**ND**	µg/L	0.50		
30	Bromoform	**ND**	µg/L	0.50		
53	Chloromethane	**ND**	µg/L	0.50	0.50	
54	Bromomethane	**ND**	µg/L	0.50	0.50	
55	Chloroethane	**ND**	µg/L	0.50	0.50	
58	1,1-Dichloroethane	**ND**	µg/L	0.50	0.50	
59	2,2-Dichloropropane	**ND**	µg/L	0.50	0.50	
62	1,1-Dichloropropene	**ND**	µg/L	0.50	0.50	
64	Dibromomethane	**ND**	µg/L	0.50	0.50	
70	1,3-Dichloropropane	**ND**	µg/L	0.50	0.50	
72	1,1,1,2-Tetrachloroethane	**ND**	µg/L	0.50	0.50	
78	Bromobenzene	**ND**	µg/L	0.50	0.50	
79	1,2,3-Trichloropropane	**ND**	µg/L	0.50	0.50	
80	1,1,2,2-Tetrachloroethane	**ND**	µg/L	0.50	0.50	
81	o-Chlorotoluene	**ND**	µg/L	0.50	0.50	
82	p-Chlorotoluene	**ND**	µg/L	0.50	0.50	
83	m-Dichlorobenzene	**ND**	µg/L	0.50	0.50	
104	Dichlorodifluoromethane	**ND**	µg/L	0.50	0.50	
	STATE UNREGULATED					
65	cis-1,3-Dichloropropene	**ND**	µg/L	0.50	0.50	
69	trans-1,3-Dichloropropene	**ND**	µg/L	0.50	0.50	
85	Fluorotrichloromethane	**ND**	µg/L	0.50	0.50	
86	Bromochloromethane	**ND**	µg/L	0.50	0.50	
87	Isopropylbenzene	**ND**	µg/L	0.50	0.50	
88	n-Propylbenzene	**ND**	µg/L	0.50	0.50	
89	1,3,5-Trimethylbenzene	**ND**	µg/L	0.50	0.50	
90	tert-Butylbenzene	**ND**	µg/L	0.50	0.50	
91	1,2,4-Trimethylbenzene	**ND**	µg/L	0.50	0.50	
92	sec-Butylbenzene	**ND**	µg/L	0.50	0.50	
93	p-Isopropyltoluene	**ND**	µg/L	0.50	0.50	
94	n-Butylbenzene	**ND**	µg/L	0.50	0.50	
96	Naphthalene	**ND**	µg/L	0.50	0.50	
97	Hexachlorobutadiene	**ND**	µg/L	0.50	0.50	
98	1,2,3-Trichlorobenzene	**ND**	µg/L	0.50	0.50	
102	EDB	**ND**	µg/L	0.50	0.02	0.05
103	DBCP	**ND**	µg/L	0.50	0.04	0.20
	Methyl Tert-Butyl Ether	**ND**	µg/L	0.50	0.50	

Approved By: _____

15 W Yakima Ave. Ste 210 WA 98902 509-575-3999 Fax: 509-575-3068

CHAIN OF CUSTODY RECORD

15 W. Yakima Ave.
Ste. 210
Yakima, WA 98902
(509) 575 – 3999

THIS INFORMATION WILL BE FOR REPORTING/BILLING (SEE BELOW)

CLIENT: PLSA Engineering & Surveying
ADDRESS: 1120 West Lincoln
Yakima, WA 98902
ATTENTION: Scott
PROJECT NAME: Tidrick
PROJECT CONTACT: Scott
TELEPHONE: 509-575-6990 FAX: 509-575-6993
Sampled By: SDG

WORK ORDER ID # PLSA14006

PAGE 1 OF 1

TESTS TO PERFORM

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX (WATER, SOIL OR SPECIFY)	NO. OF CONTAINERS	HCID, Follow up with GX/DX	If Gx found run LEAD VOC by Method 8260B	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
	141120-W2	11-20	1345	W	4 Including Blank	X	X	
	141120-W3	11-20	1415	W	4	X	X	

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. *USE ONE LINE PER SAMPLE.*
2. *BE SPECIFIC IN TEST REQUESTS.*
3. *CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE*

BILLING INFORMATION, IF DIFFERENT THAN ABOVE

NAME: Same
ADDRESS
ATTN
CITY STATE ZIP

* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TOTAL NO. OF CONTAINERS

- [X] Std. 10-14 Business Days
- [ ] 3-Day Rush – 100%
- [ ] 1 week Rush – 80%

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME	RECEIVED BY (SIGN AND PRINT)	DATE / TIME
Scott Schmidt	11-20 1451		11-20 1457

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number	141203033-001	**Sampling Date**	11/20/2014	**Date/Time Received**	12/2/2014 11:50 AM
Client Sample ID	5205	**Sampling Time**	1:45 PM	**Extraction Date**	12/03/2014
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	<0.63	mg/L	0.63	12/9/2014	KFG	WATPH-HCID	
Gasoline	<0.25	mg/L	0.25	12/9/2014	KFG	WATPH-HCID	
Lube Oil	<0.63	mg/L	0.63	12/9/2014	KFG	WATPH-HCID	

Surrogate Data

Sample Number 141203033-001

Surrogate Standard	Method	Percent Recovery	Control Limits
hexacosane	WATPH-HCID	108.8	50-150

Anatek Labs, Inc.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-001 **Sampling Date** 11/20/2014 **Date/Time Received** 12/2/2014 11:50 AM
Client Sample ID 5205 **Sampling Time** 1:45 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Acetone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-001 **Sampling Date** 11/20/2014 **Date/Time Received** 12/2/2014 11:50 AM
Client Sample ID 5205 **Sampling Time** 1:45 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroform	3.00	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	1.10	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-001
Client Sample ID 5205
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time 1:45 PM

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
p-isopropyltoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Tetrachloroethene	2.46	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 141203033-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	101.6	70-130
4-Bromofluorobenzene	EPA 8260B	102.4	70-130
Toluene-d8	EPA 8260B	95.6	70-130

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Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trichloroethene	9.85	ug/L	10	98.5	72-125	12/4/2014	12/4/2014
Toluene	10.2	ug/L	10	102.0	76-123	12/4/2014	12/4/2014
Tetrachloroethene	9.66	ug/L	10	96.6	64-132	12/4/2014	12/4/2014
o-Xylene	11.6	ug/L	10	116.0	83-117	12/4/2014	12/4/2014
Ethylbenzene	10.8	ug/L	10	108.0	84-115	12/4/2014	12/4/2014
Chlorobenzene	10.5	ug/L	10	105.0	85-115	12/4/2014	12/4/2014
Benzene	9.79	ug/L	10	97.9	75-125	12/4/2014	12/4/2014
1,1-Dichloroethene	9.70	ug/L	10	97.0	68-127	12/4/2014	12/4/2014

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	9.79	ug/L	10	97.9	0.6	0-20	12/4/2014	12/4/2014
Toluene	10.2	ug/L	10	102.0	0.0	0-20	12/4/2014	12/4/2014
Tetrachloroethene	9.64	ug/L	10	96.4	0.2	0-20	12/4/2014	12/4/2014
o-Xylene	11.5	ug/L	10	115.0	0.9	0-20	12/4/2014	12/4/2014
Ethylbenzene	10.7	ug/L	10	107.0	0.9	0-20	12/4/2014	12/4/2014
Chlorobenzene	10.5	ug/L	10	105.0	0.0	0-20	12/4/2014	12/4/2014
Benzene	9.74	ug/L	10	97.4	0.5	0-20	12/4/2014	12/4/2014
1,1-Dichloroethene	9.14	ug/L	10	91.4	5.9	0-20	12/4/2014	12/4/2014

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
141203033-001	Trichloroethene	ND	10.5	ug/L	10	105.0	56-143	12/4/2014	12/4/2014
141203033-001	Toluene	ND	10.5	ug/L	10	105.0	66-136	12/4/2014	12/4/2014
141203033-001	Tetrachloroethene	2.46	13.5	ug/L	10	110.4	64-132	12/4/2014	12/4/2014
141203033-001	o-Xylene	ND	12.0	ug/L	10	120.0	68-134	12/4/2014	12/4/2014
141203033-001	Ethylbenzene	ND	11.1	ug/L	10	111.0	70-137	12/4/2014	12/4/2014
141203033-001	Chlorobenzene	ND	10.9	ug/L	10	109.0	68-136	12/4/2014	12/4/2014

Comments:

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Quality Control Data

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
141203033-001	Benzene	ND	10.0	ug/L	10	100.0	63-139	12/4/2014	12/4/2014
141203033-001	1,1-Dichloroethene	ND	10.1	ug/L	10	101.0	59-144	12/4/2014	12/4/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1,1-Trichloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1,2-Trichloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1-Dichloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1-Dichloroethene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,1-dichloropropene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2,3-Trichloropropane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2-Dibromoethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2-Dichloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,3-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
1,3-Dichloropropane	ND	ug/L	0.5	12/4/2014	12/4/2014
1,4-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
2,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	12/4/2014
2-Chlorotoluene	ND	ug/L	0.5	12/4/2014	12/4/2014
2-hexanone	ND	ug/L	2.5	12/4/2014	12/4/2014
4-Chlorotoluene	ND	ug/L	0.5	12/4/2014	12/4/2014
Acetone	ND	ug/L	2.5	12/4/2014	12/4/2014
Acrylonitrile	ND	ug/L	0.5	12/4/2014	12/4/2014

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87693; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Benzene	ND	ug/L	0.5	12/4/2014	12/4/2014
Bromobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
Bromochloromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Bromodichloromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Bromoform	ND	ug/L	0.5	12/4/2014	12/4/2014
Bromomethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Carbon disulfide	ND	ug/L	0.5	12/4/2014	12/4/2014
Carbon Tetrachloride	ND	ug/L	0.5	12/4/2014	12/4/2014
Chlorobenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
Chloroethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Chloroform	ND	ug/L	0.5	12/4/2014	12/4/2014
Chloromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
cis-1,2-dichloroethene	ND	ug/L	0.5	12/4/2014	12/4/2014
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	12/4/2014
Dibromochloromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Dibromomethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Dichlorodifluoromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Ethylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
Hexachlorobutadiene	ND	ug/L	0.5	12/4/2014	12/4/2014
Isopropylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
m+p-Xylene	ND	ug/L	0.5	12/4/2014	12/4/2014
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/4/2014	12/4/2014
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/4/2014	12/4/2014
Methylene chloride	ND	ug/L	2.5	12/4/2014	12/4/2014
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/4/2014	12/4/2014
Naphthalene	ND	ug/L	0.5	12/4/2014	12/4/2014
n-Butylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
n-Propylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
o-Xylene	ND	ug/L	0.5	12/4/2014	12/4/2014
p-isopropyltoluene	ND	ug/L	0.5	12/4/2014	12/4/2014
sec-Butylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014
Styrene	ND	ug/L	0.5	12/4/2014	12/4/2014
tert-Butylbenzene	ND	ug/L	0.5	12/4/2014	12/4/2014

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Tetrachloroethene	ND	ug/L	0.5	12/4/2014	12/4/2014
Toluene	ND	ug/L	0.5	12/4/2014	12/4/2014
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/4/2014	12/4/2014
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	12/4/2014
Trichloroethene	ND	ug/L	0.5	12/4/2014	12/4/2014
Trichloroflouromethane	ND	ug/L	0.5	12/4/2014	12/4/2014
Vinyl Chloride	ND	ug/L	0.5	12/4/2014	12/4/2014

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
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Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Diesel	0.276	mg/L	0.5	55.2	50-150	12/3/2014	12/9/2014

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Diesel	0.303	mg/L	0.5	60.6	9.3	0-50	12/3/2014	12/9/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Diesel	ND	mg/L	0.1	12/3/2014	12/9/2014
Lube Oil	ND	mg/L	0.5	12/3/2014	12/9/2014

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

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Login Report

Customer Name: VALLEY ENVIRONMENTAL LAB
15 W. YAKIMA AVE STE210
YAKIMA WA 98901

Order ID: 141203033
Order Date: 12/3/2014

Contact Name: DARA OSBORNE

Project Name: HCID / VOC

Comment:

Sample #: 141203033-001 **Customer Sample #:** 5205

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 11/20/2014
Quantity: 3 **Date Received:** 12/2/2014 11:50:00 AM **Time Collected:** 1:45 PM
Comment:

Test	Lab	Method	Due Date	Priority
HCID	M	WATPH-HCID	12/15/2014	***Normal (~10 Days)***
VOLATILES 8260	M	EPA 8260B	12/15/2014	***Normal (~10 Days)***

Sample #: 141203033-002 **Customer Sample #:** 5206

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 11/20/2014
Quantity: 3 **Date Received:** 12/2/2014 11:50:00 AM **Time Collected:** 2:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
HCID	M	WATPH-HCID	12/15/2014	***Normal (~10 Days)***
VOLATILES 8260	M	EPA 8260B	12/15/2014	***Normal (~10 Days)***

Sample #: 141203033-003 **Customer Sample #:** TRIP BLANK 5205

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 11/20/2014
Quantity: 1 **Date Received:** 12/2/2014 11:50:00 AM **Time Collected:**
Comment:

Test	Lab	Method	Due Date	Priority
VOLATILES 8260	M	EPA 8260B	12/15/2014	***Normal (~10 Days)***

141203 033 **VAEL** Last Due 12/15/2014
1st SAMP 11/20/201 1st RCVD 12/2/2014
HCID / VOC

CHAIN OF CUSTODY RECORD

THIS INFORMATION WILL BE FOR REPORTING/BILLING (SEE BELOW)

CLIENT / ADDRESS: Valley Lab, 15 W. Yakima Ave., STE 210, Yakima, WA. 98902

ATTENTION:
PROJECT NAME:
PROJECT CONTACT: Dara Osborne
TELEPHONE: FAX:
Sampled By:

WORK ORDER ID #
PAGE ___ OF ___

TESTS TO PERFORM

LAB SAMPLE	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	HCID	VOC		OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1	5205	11/20	1345	W	2	X	X	Include all QA/QC	- Improper preservative
2	OG	11/20	1415	W	2	X	X		- for Voc (MAIAA)
3	5205 Trip Blank				1				
4	5206 Trip Blank				1				
									-HCID samples received unpreserved HCl added in house -TK

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be res... Please contact the laboratory for further information.

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

BILLING INFO: NAME / ATTN

TOTAL NO. OF CONTAINERS

- ☐ Std. 10-14 Business Days
- ☐ 24-48 Hrs. 100% Rush
- ☐ 3-Day Rush – 80%
- ☐ 1 week Rush – 50%

ANATEK LABS RECEIVING LIST

- ☑ RECEIVED INTACT
- ☑ LABELS & CHAINS AGREE
- ☐ NO HEADSPACE
- ☑ ICE / ICE-PACKS PRESENT
- ☐ CUSTODY SEALS PRESENT

TEMP: 2.4 °C
PRESERVATIVES: MAIAA
NUMBER OF CONTAINERS: 6 SHIPPED VIA: UPS
DATE & TIME: 12/2/14 1150 INSPECTED BY: TK

RELINQUISHED BY (SIGN AND PRINT)	DATE / TIME
Julie Hawley	12/1/14 1200

Customer Name: VALLEY ENVIRONMENTAL LAB
15 W. YAKIMA AVE STE210
YAKIMA WA 98901

Order ID: 141203033
Order Date: 12/3/2014

Contact Name: DARA OSBORNE

Project Name: HCID / VOC

Comment:

Sample #: 141203033-004 **Customer Sample #:** TRIP BLANK 5206

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 11/20/2014

Quantity: 1 **Date Received:** 12/2/2014 11:50:00 AM **Time Collected:**

Comment:

Test	Lab	Method	Due Date	Priority
VOLATILES 8260	M	EPA 8260B	12/15/2014	***Normal (~10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	2.9
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	No
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

NWTPH-HCID

Date Collected: 11/20/14	
Lab/Sample No: 227-05206	County: YAKIMA
Sample Location: 141120-W3	
	Date Received: 11/21/14
	Date Reported: 12/15/14
	Sample Collected By: Scott

Send Report To:	SAMPLE COMMENTS Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Tidrick

NWTPH-HCID

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Hydrocarbon ID	NONE					WATPH-HCID	12/09/14	125
	% Surrogate Recovery	105	%				(50 - 150)	12/09/14	125
	Diesel	<0.63	mg/L	0.63			WATPH-HCID	12/09/14	125
	Gasoline	<0.25	mg/L	0.25			WATPH-HCID	12/09/14	125
	Lube Oil	<0.63	mg/L	0.63			WATPH-HCID	12/09/14	125

QC ID	Units	Diesel Results	True Value	% Recovery	Limits	% RPD
LCS (lab Control Sample)	mg/L	0.276	0.5	55.2	50-150	
MB (method blank)	mg/L	ND	ND			
LCSD(Lab Control Sample Duplicate	mg/L	0.3	0.5	60.6	0-50	9.3

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

05206-hcid

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

VOLATILE ORGANIC CHEMICALS (VOCs) ANALYSIS REPORT

Lab/Sample No: 227-05206	Date Collected: 11/20/14	
Date Received: 11/21/14	Date Reported: 12/15/14	Supervisor: DCO
	Date Analyzed: 12/04/14	Analyst: 125
	Sampled By: Scott	
Sample Location: 141120-W3		Invoice#: 28371

Send Report To:	Sample Information	Matrix: Water
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	Tidrick	

Volatile Organic Chemicals

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Exceeds?	
	EPA REGULATED						Trigger?	MCL?
45	Vinyl chloride	ND	µg/L	0.50	0.50	2.0	N	N
46	1,1-Dichloroethylene	ND	µg/L	0.50	0.50	7.0	N	N
47	1,1,1-Trichloroethane	ND	µg/L	0.50	0.50	200	N	N
48	Carbon tetrachloride	ND	µg/L	0.50	0.50	5.0	N	N
49	Benzene	ND	µg/L	0.50	0.50	5.0	N	N
50	1,2-Dichloroethane	ND	µg/L	0.50	0.50	5.0	N	N
51	Trichloroethylene	ND	µg/L	0.50	0.50	5.0	N	N
52	1,4-Dichlorobenzene	ND	µg/L	0.50	0.50	75	N	N
56	Dichloromethane	ND	µg/L	0.50	0.50	5.0	N	N
57	trans-1,2-Dichloroethylene	ND	µg/L	0.50	0.50	100	N	N
60	cis-1,2-Dichloroethylene	ND	µg/L	0.50	0.50	70	N	N
63	1,2-Dichloropropane	0.94	µg/L	0.50	0.50	5.0	N	N
66	Toluene	ND	µg/L	0.50	0.50	1000	N	N
67	1,1,2-Trichloroethane	ND	µg/L	0.50	0.50	5.0	N	N
68	Tetrachloroethene	2.23	µg/L	0.50	0.50	5.0	N	N
71	Chlorobenzene	ND	µg/L	0.50	0.50	100	N	N
73	Ethylbenzene	ND	µg/L	0.50	0.50	700	N	N
76	Styrene	ND	µg/L	0.50	0.50	100	N	N
84	1,2-Dichlorobenzene	ND	µg/L	0.50	0.50	600	N	N
95	1,2,4-Trichlorobenzene	ND	µg/L	0.50	0.50	70	N	N
160	Total Xylenes	ND	µg/L	0.50	0.50	10000	N	N
74	m,p-Xylenes (MCL for Total)	ND	µg/L	0.50	0.50		N	N
75	o-Xylene (MCL for Total)	ND	µg/L	0.50	0.50		N	N

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

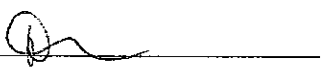
MNa15 W Yakima Ave Ste 210 WA 98902 509-575-3999 Fax: 509-575-3068

05206-voc

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Lab Sample No: 22705206			VOC's Analysis Report - Page 2			
DOH#	Analytes	Results	Units	SRL	Trigger	MCL
	EPA UNREGULATED					
27	Chloroform	**2.79**	µg/L	0.50		
28	Bromodichloromethane	**ND**	µg/L	0.50		
29	Dibromochloromethane	**ND**	µg/L	0.50		
30	Bromoform	**ND**	µg/L	0.50		
53	Chloromethane	**ND**	µg/L	0.50	0.50	
54	Bromomethane	**ND**	µg/L	0.50	0.50	
55	Chloroethane	**ND**	µg/L	0.50	0.50	
58	1,1-Dichloroethane	**ND**	µg/L	0.50	0.50	
59	2,2-Dichloropropane	**ND**	µg/L	0.50	0.50	
62	1,1-Dichloropropene	**ND**	µg/L	0.50	0.50	
64	Dibromomethane	**ND**	µg/L	0.50	0.50	
70	1,3-Dichloropropane	**ND**	µg/L	0.50	0.50	
72	1,1,1,2-Tetrachloroethane	**ND**	µg/L	0.50	0.50	
78	Bromobenzene	**ND**	µg/L	0.50	0.50	
79	1,2,3-Trichloropropane	**ND**	µg/L	0.50	0.50	
80	1,1,2,2-Tetrachloroethane	**ND**	µg/L	0.50	0.50	
81	o-Chlorotoluene	**ND**	µg/L	0.50	0.50	
82	p-Chlorotoluene	**ND**	µg/L	0.50	0.50	
83	m-Dichlorobenzene	**ND**	µg/L	0.50	0.50	
104	Dichlorodifluoromethane	**ND**	µg/L	0.50	0.50	
	STATE UNREGULATED					
65	cis-1,3-Dichloropropene	**ND**	µg/L	0.50	0.50	
69	trans-1,3-Dichloropropene	**ND**	µg/L	0.50	0.50	
85	Fluorotrichloromethane	**ND**	µg/L	0.50	0.50	
86	Bromochloromethane	**ND**	µg/L	0.50	0.50	
87	Isopropylbenzene	**ND**	µg/L	0.50	0.50	
88	n-Propylbenzene	**ND**	µg/L	0.50	0.50	
89	1,3,5-Trimethylbenzene	**ND**	µg/L	0.50	0.50	
90	tert-Butylbenzene	**ND**	µg/L	0.50	0.50	
91	1,2,4-Trimethylbenzene	**ND**	µg/L	0.50	0.50	
92	sec-Butylbenzene	**ND**	µg/L	0.50	0.50	
93	p-Isopropyltoluene	**ND**	µg/L	0.50	0.50	
94	n-Butylbenzene	**ND**	µg/L	0.50	0.50	
96	Naphthalene	**ND**	µg/L	0.50	0.50	
97	Hexachlorobutadiene	**ND**	µg/L	0.50	0.50	
98	1,2,3-Trichlorobenzene	**ND**	µg/L	0.50	0.50	
102	EDB	**ND**	µg/L	0.50	0.02	0.05
103	DBCP	**ND**	µg/L	0.50	0.04	0.20
	Methyl Tert-Butyl Ether	**ND**	µg/L	0.50	0.50	

Approved By: 

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Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	VALLEY ENVIRONMENTAL LAB	**Batch #:**	141203033
Address:	15 W. YAKIMA AVE STE210 YAKIMA, WA 98901	**Project Name:**	HCID / VOC
Attn:	DARA OSBORNE		

Analytical Results Report

Sample Number	141203033-002	**Sampling Date**	11/20/2014	**Date/Time Received**	12/2/2014	11:50 AM
Client Sample ID	5206	**Sampling Time**	2:05 PM	**Extraction Date**	12/03/2014	
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	<0.63	mg/L	0.63	12/9/2014	KFG	WATPH-HCID	
Gasoline	<0.25	mg/L	0.25	12/9/2014	KFG	WATPH-HCID	
Lube Oil	<0.63	mg/L	0.63	12/9/2014	KFG	WATPH-HCID	

Surrogate Data

Sample Number 141203033-002

Surrogate Standard	Method	Percent Recovery	Control Limits
hexacosane	WATPH-HCID	105.0	50-150

Authorized Signature

John Coddington, Lab Manager

MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-002
Client Sample ID 5206
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time 2:05 PM

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Acetone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-002
Client Sample ID 5206
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time 2:05 PM

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroform	2.79	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	0.94	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methyl Isobutyl ketone (MIBK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-002
Client Sample ID 5206
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time 2:05 PM

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Tetrachloroethene	2.23	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 141203033-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	101.6	70-130
4-Bromofluorobenzene	EPA 8260B	101.2	70-130
Toluene-d8	EPA 8260B	95.6	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-003 **Sampling Date** 11/20/2014 **Date/Time Received** 12/2/2014 11:50 AM
Client Sample ID TRIP BLANK 5205 **Sampling Time**
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Acetone	15.8	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-003
Client Sample ID TRIP BLANK 5205
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time
Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-003
Client Sample ID TRIP BLANK 5205
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time
Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichlorofluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 141203033-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	101.2	70-130
4-Bromofluorobenzene	EPA 8260B	100.8	70-130
Toluene-d8	EPA 8260B	95.6	70-130

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-004 **Sampling Date** 11/20/2014 **Date/Time Received** 12/2/2014 11:50 AM
Client Sample ID TRIP BLANK 5206 **Sampling Time**
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
2-hexanone	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Acetone	11.7	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Benzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-004
Client Sample ID TRIP BLANK 5206
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromoform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Bromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloroform	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Chloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	12/4/2014	SAT	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Naphthalene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
o-Xylene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 141203033
Project Name: HCID / VOC

Analytical Results Report

Sample Number 141203033-004
Client Sample ID TRIP BLANK 5206
Matrix Water
Comments

Sampling Date 11/20/2014
Sampling Time

Date/Time Received 12/2/2014 11:50 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Styrene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Toluene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	12/4/2014	SAT	EPA 8260B	

Surrogate Data

Sample Number 141203033-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	100.4	70-130
4-Bromofluorobenzene	EPA 8260B	100.4	70-130
Toluene-d8	EPA 8260B	95.6	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70813	**County: YAKIMA**
Sample Location: OWS2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**0.890**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Chromium	**21.7**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Nickel	**21.6**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Zinc	**151**	mg/kg	0.507			EPA 6020A	07/23/14	125
	Lead	**123**	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70813-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70814	**County: YAKIMA**
Sample Location: OWS13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.472			EPA 6020A	07/23/14	125
	Chromium	17.0	mg/kg	0.472			EPA 6020A	07/23/14	125
	Nickel	13.9	mg/kg	0.472			EPA 6020A	07/23/14	125
	Zinc	48.6	mg/kg	0.472			EPA 6020A	07/23/14	125
	Lead	3.31	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70814-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70815	**County: YAKIMA**
Sample Location: DRUM2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.557			EPA 6020A	07/23/14	125
	Chromium	20.6	mg/kg	0.557			EPA 6020A	07/23/14	125
	Nickel	19.2	mg/kg	0.557			EPA 6020A	07/23/14	125
	Zinc	72.0	mg/kg	0.577			EPA 6020A	07/23/14	125
	Lead	5.67	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

15 W. Yakima Ave Ste 210 Yakima, WA 98902 509-575-3999 Fax: 509-575-3068

70815-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70816	**County: YAKIMA**
Sample Location: DRUM-14	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.54			EPA 6020A	07/23/14	125
	Chromium	16.1	mg/kg	0.54			EPA 6020A	07/23/14	125
	Nickel	14.1	mg/kg	0.54			EPA 6020A	07/23/14	125
	Zinc	62.0	mg/kg	0.54			EPA 6020A	07/23/14	125
	Lead	25.8	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70816-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70817	**County: YAKIMA**
Sample Location: UST3-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**0.595**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Chromium	**21.0**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Nickel	**18.6**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Zinc	**138**	mg/kg	0.531			EPA 6020A	07/23/14	125
	Lead	**153**	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By: _____

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70817-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70818	**County: YAKIMA**
Sample Location: UST3-12	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Lead

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.531			EPA 6020A	07/23/14	125
	Chromium	19.1	mg/kg	0.531			EPA 6020A	07/23/14	125
	Nickel	17.4	mg/kg	0.531			EPA 6020A	07/23/14	125
	Zinc	56.0	mg/kg	0.531			EPA 6020A	07/23/14	125
	Lead	19.2	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70818-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70819	**County: YAKIMA**
Sample Location: DWI-3	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.511			EPA 6020A	07/23/14	125
	Chromium	19.9	mg/kg	0.511			EPA 6020A	07/23/14	125
	Nickel	17.2	mg/kg	0.511			EPA 6020A	07/23/14	125
	Zinc	62.2	mg/kg	0.511			EPA 6020A	07/23/14	125
	Lead	4.97	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70819-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70820	**County: YAKIMA**
Sample Location: DWI-13	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	20.0	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	18.7	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	68.7	mg/kg	0.535			EPA 6020A	07/23/14	125
	Lead	49.3	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70820-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70821	County: YAKIMA
Sample Location: UST2-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	SAMPLE COMMENTS Matrix: Soil
PLSA Engineering Attn: Scott Garland 1120 West Lincoln Avenue Yakima, WA 98902	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	18.9	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	17.6	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	68.0	mg/kg	0.535			EPA 6020A	07/23/14	125
	Lead	5.01	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70821-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70822	**County: YAKIMA**
Sample Location: UST2-11	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**21.0**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**16.1**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**52.6**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Lead	**3.16**	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70822-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70823	**County: YAKIMA**
Sample Location: UST1-2	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	**ND**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	**14.7**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	**13.4**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	**49.6**	mg/kg	0.535			EPA 6020A	07/23/14	125
	Lead	**3.51**	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

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70823-cdcrni

VALLEY Environmental Laboratory

Washington State Certified Lab #227 - DOE Accredited Lab C345

Cadmium, Chromium, Nickel, Zinc

Date Collected: 07/08/14	
Lab/Sample No: 227-70824	**County: YAKIMA**
Sample Location: UST1-10	
	Date Received: 07/08/14
	Date Reported: 07/29/14
	Sample Collected By: SDG
Send Report To:	**SAMPLE COMMENTS** **Matrix: Soil**
PLSA Engineering **Attn: Scott Garland** **1120 West Lincoln Avenue** **Yakima, WA 98902**	

Cadmium, Chromium, Nickel, Zinc

DOH#	Analytes	Results	Units	MRL	Trigger	MCL	Method	Analyzed	Analyst
	Cadmium	ND	mg/kg	0.535			EPA 6020A	07/23/14	125
	Chromium	17.5	mg/kg	0.535			EPA 6020A	07/23/14	125
	Nickel	14.2	mg/kg	0.535			EPA 6020A	07/23/14	125
	Zinc	45.4	mg/kg	0.535			EPA 6020A	07/23/14	125
	Lead	16.7	mg/kg	0.507			EPA 6020A	07/23/14	125

MRL (Method Reporting Level): Indicates the minimum reporting level required and obtained by the laboratory (MDL<MRL<SRL).

Trigger: DOH Drinking Water response level. Public Systems in excess of this level must take additional samples. Recommended range on packages.

MCL (maximum contaminant level): Highest level recommended by the federal government for public water systems.

ND (Not Detected): Indicates this compound was analyzed and not detected at a level greater than or equal to the MRL or SRL.

Approved By:

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70824-cdcrni

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-001
Client Sample ID 70813
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 8:34 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	123	mg/Kg	0.507	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-002
Client Sample ID 70814
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 8:29 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	3.31	mg/Kg	0.472	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-003 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70815 **Sampling Time** 9:10 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	5.67	mg/Kg	0.557	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-004 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70816 **Sampling Time** 8:59 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	25.8	mg/Kg	0.54	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-005
Client Sample ID 70817
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 9:53 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	153	mg/Kg	0.531	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-006
Client Sample ID 70818
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 9:40 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	19.2	mg/Kg	0.477	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-007 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70819 **Sampling Time** 10:32 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	4.97	mg/Kg	0.511	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-008 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70820 **Sampling Time** 10:15 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	49.3	mg/Kg	0.535	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-009
Client Sample ID 70821
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 11:16 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	5.01	mg/Kg	0.525	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-010
Client Sample ID 70822
Matrix Soil
Comments

Sampling Date 7/8/2014
Sampling Time 11:07 AM

Date/Time Received 7/11/2014 11:20 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	3.16	mg/Kg	0.503	7/23/2014	ETL	EPA 6020A	

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Client: VALLEY ENVIRONMENTAL LAB
Address: 15 W. YAKIMA AVE STE210
YAKIMA, WA 98901
Attn: DARA OSBORNE

Batch #: 140714014
Project Name: VOC / METALS / PAH / PCB

Analytical Results Report

Sample Number 140714014-011 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70823 **Sampling Time** 11:42 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	3.51	mg/Kg	0.46	7/23/2014	ETL	EPA 6020A	

Sample Number 140714014-012 **Sampling Date** 7/8/2014 **Date/Time Received** 7/11/2014 11:20 AM
Client Sample ID 70824 **Sampling Time** 11:31 AM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	16.7	mg/Kg	0.441	7/23/2014	ETL	EPA 6020A	

Authorized Signature

John Goddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

APPENDIX “E”

TTEC Calculations

Total Toxicity Equivalence Concentration (TTEC)					
Sample ID					
OWS-2	**cPAH**	**Measured Soil Concentration (mg/kg)**	**Toxicity Equivalency Factor (TEF, unitless)**	**Toxicity Equivalent Soil Concentration (mg/kg)**	
	benzo(a)pyrene	0.005	1.00	0.005	
	benzo(a)anthracene	0.0186	0.10	0.00186	
	benzo(b)fluoranthene	0.0122	0.10	0.00122	
	benzo(k)fluoranthene	0.005	0.10	0.0005	
	chrysene	0.005	0.01	0.00005	
	dibenzo(a,h)anthracene	0.005	0.10	0.0005	
	indeno(1,2,3cd)pyrene	0.0124	0.10	0.00124	
	Sum	0.0632		**0.01037 = TTEC**	
			Compare TTEC to Method B CUL for benzo(a)pyrene: 0.137 mg/kg		
			Compare TTEC to Method A CUL for benzo(a)pyrene: 0.1 mg/kg		