



December 17, 2010
Project 101.00433.00001

Mr. Larry Smith
Olympic Water & Sewer, Inc.
70 Breaker Lane
Port Ludlow, Washington 98635

**Re: Site Characterization Report, Olympic Water & Sewer, Inc. Property,
781 Walker Way, Port Ludlow, Washington**

Dear Larry:

SLR International Corp (SLR) has prepared this report to present the results of a subsurface investigation at the above-referenced property. The primary objectives of the work were to: 1) assess the gasoline concentrations in the soil at the area of the northern former gasoline underground storage tanks (USTs; apparent source of known gasoline-impacted perched groundwater), 2) delineate the lateral and vertical extents of the gasoline-impacted perched groundwater, and 3) to characterize any seasonal effects on the perched groundwater elevations and contaminant concentrations.

PROPERTY DESCRIPTION AND HISTORY

The subject property, which is owned by Olympic Water & Sewer, Inc. (OWSI), is located at 781 Walker Way in Port Ludlow, Washington. The location of the property is shown on Figure 1. The property is located at the southwest corner of the intersection of Walker Way and Rainier Lane (see Figure 2). The property is surrounded by private residences to the south and west; by Walker Way and a commercial business (storage facility) and private residences to the north; and by Rainier Lane and private residences to the east.

The OWSI property is an approximate 2.2-acre parcel that is partially developed with an OWSI operation and maintenance facility. The facility consists of an approximate ½-acre area that includes an office/shop/garage building, a public water supply well (Well #2) and associated pump house building, and a storage trailer (see Figure 2). The ground surface within the facility is primarily unpaved, except for a narrow asphalt driveway that runs down the center of the facility from Walker Way to approximately the storage trailer. The ground surface of the facility slopes gently to the southwest. Within the OWSI property, the facility is surrounded on all sides by dense forest, and a gully is located within the forest to the west of the facility. The facility has been operating since 1968,



after the installation of the water supply well. Prior to 1968, the property was undeveloped.

SUMMARY OF PREVIOUS ENVIRONMENTAL ACTIVITIES

UST Removals

In September 1990, Applied Geotechnology, Inc. (AGI) removed three gasoline USTs at the property. A 1,000-gallon UST was located beneath the floor of the northern garage bay, a 2,000-gallon UST was located outside (west) of the northern garage bay, and another 2,000-gallon UST was located approximately 40 feet south of the garage. The approximate locations of the UST excavations are shown on Figure 2. After removing each UST, one soil sample was collected from the sidewalls and/or floor of each excavation for laboratory analysis. The soil sample analytical results showed that the floor samples from the 1,000-gallon UST excavation and the northern 2,000-gallon UST excavation contained total petroleum hydrocarbons (TPH; identified as gasoline) concentrations of 3,000 and 963 milligrams per kilogram (mg/kg), respectively (AGI, 1991). There was no field evidence of gasoline-impacted soil in the southern 2,000-gallon UST excavation, and a composite soil sample from the sidewalls and floor of the excavation did not contain a TPH concentration greater than the method reporting limit (MRL).

To remove additional impacted soil in the 1,000-gallon UST excavation and the northern 2,000-gallon UST excavation, soil excavation activities were conducted in October 1990. The 2,000-gallon UST excavation was extended to a depth of approximately 12 feet below ground surface (bgs). Soil samples collected from the sidewalls and floor of the expanded excavation contained TPH concentrations of up to 30 mg/kg (AGI, 1991). To prevent any structural damage to the building, the 1,000-gallon UST excavation could only be extended to a depth of approximately 10 feet bgs. A composite floor sample from the expanded excavation contained a TPH concentration of 1,237 mg/kg, and a composite sidewall sample contained a TPH concentration of 30 mg/kg. Approximately 120 cubic yards of impacted soil were removed from the northern 2,000-gallon UST excavation, and approximately 30 cubic yards of impacted soil were removed from the 1,000-gallon UST excavation. The soil was transported off-site for treatment by aeration and biodegradation methods.

In October 1990, a water sample from Well #2 was collected and analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). The sample did not contain BTEX concentrations greater than the MRLs (AGI, 1991). In January 1991, AGI assessed the soil conditions beneath the 1,000-gallon UST excavation by drilling an angle boring (designated MW-1) and collected soil samples. The approximate location of the boring is

shown on Figure 2. The boring was drilled at an angle of 25 degrees east of vertical and extended to a measured depth of approximately 30 feet (27 feet vertical depth and 12 feet east of the top of the hole). Soil samples collected from the boring, at depths of approximately 15 and 30 feet, did not contain TPH concentrations greater than the MRL (AGI, 1991).

Water Supply Well Installation

On April 21, 2009, during the drilling of a replacement water supply well (designated Well #17) at the southern part of the OWSI facility, the driller noticed a gasoline odor emanating from the well casing at a depth of approximately 50 feet [Robinson Noble & Saltbush, Inc. (Robinson Noble), 2009]. The drilling was discontinued, and soil and perched groundwater samples were collected from the bottom of the casing for laboratory analysis. The analytical results showed that the groundwater sample contained gasoline-range organics (GRO) and benzene concentrations [5,530 and 948 micrograms per liter ($\mu\text{g/L}$), respectively] that exceeded the Model Toxics Control Act (MTCA) Method A groundwater cleanup levels (800 and 5 $\mu\text{g/L}$, respectively). Due to the presence of gasoline-impacted perched groundwater, the well was not completed and the casing was capped. The location of the casing for Well #17 is shown on Figure 2. On April 23, 2009 and April 15, 2010, water samples were collected from Well #2 to verify that petroleum hydrocarbons had not impacted the water supply. The sample analytical results showed that petroleum hydrocarbons were not detected above the MRLs. The analytical results of the 2009 sample were presented in a report by Robinson Noble (Robinson Noble, 2009), and a copy of the laboratory report for the 2010 sample is presented in Appendix A.

Notification of Release

Within 24 hours after the laboratory confirmed that GRO and benzene concentrations were present above MTCA Method A cleanup levels in the perched groundwater, Mr. Greg Rae of OWSI notified the Jefferson County Health Department (Health Department) of the impacted groundwater, and the Health Department notified the Washington Department of Ecology (Ecology). Ecology added the OWSI property to their Confirmed or Suspected Contaminated Sites database.

SITE CHARACTERIZATION ACTIVITIES

From April through October 2010, SLR conducted a subsurface investigation at the subject property to meet the objectives described previously. The investigation activities and the results of the work are presented below.

Drill and Install Groundwater Monitoring Wells

April 2010 Drilling and Sampling Activities

On April 14, 2010, four soil borings (designated MW-1A, MW-1B, MW-1C, and MW-2A) were drilled in an attempt to install perched groundwater monitoring wells at the former northern gasoline UST area and near the storage trailer. The approximate locations of the borings are shown on Figure 2. Prior to conducting the drilling activities, public and private utility locating services identified and marked the locations of underground utilities at the property. Cascade Drilling, Inc. (Cascade) of Woodinville, Washington, conducted the drilling activities under the direction of an SLR geologist. The borings were drilled by using hollow-stem auger methods, and soil samples were collected from the borings at approximate 5-foot intervals by using 3-inch diameter split-barrel samplers. Three borings (designated MW-1A, MW-1B, and MW-1C) were drilled near the northern 2,000-gallon gasoline UST excavation, and were advanced to depths of approximately 19.5, 39, and 36.5 feet, respectively, before meeting refusal due to cobbles. One boring (designated MW-2A) was drilled to the north of the storage trailer, and was advanced to a depth of approximately 29.5 feet before meeting refusal due to cobbles. The soil cuttings are stored on the property in properly labeled 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

SLR screened each soil sample for evidence of petroleum hydrocarbons such as sheen, staining, odor, and detectable photoionization detector (PID) readings. Strong hydrocarbon-like odors were present in the three MW-1 borings at depths between approximately 16.5 and 31.5 feet bgs. There was no field evidence of petroleum hydrocarbons in boring MW-2A. The soil sample with the highest PID reading, the 24.5-foot-deep sample from MW-1B, was submitted to Friedman & Bruya, Inc. (F&B) in Seattle, Washington, for analysis. Soil boring logs that present the field screening results are presented in Appendix B. Perched groundwater was not encountered in any of the borings. Immediately after drilling, all of the borings were abandoned by filling with hydrated bentonite pellets.

June 2010 Well Installation Activities

To ensure that the borings could be advanced to groundwater, air rotary drilling methods were used to install four perched groundwater monitoring wells (designated MW-1, MW-2, MW-3, and MW-4) at the subject property on June 7, 8, 9, 10, and 11, 2010. Tacoma Pump and Drilling, Inc. (Tacoma Pump), of Spanaway, Washington, conducted the drilling and well installation activities under the direction of an SLR geologist. Well MW-1 was installed near the likely source of the impacted perched groundwater (the northern former gasoline UST area), and MW-2, MW-3, and MW-4 were installed at

locations to delineate the western/southwestern, southern, and northern extents of the impacted perched groundwater. The locations of the wells are shown on Figure 2. Each of the borings was advanced below the perched groundwater table, to depths ranging from approximately 46 to 60 feet bgs. The soil cuttings are stored on the property in properly labeled 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

Since soil samples had already been collected near well MW-1 to a depth of approximately 35 feet and the other wells were not located near a potential contaminant source area, the sampling plan included the collection of soil samples from each boring at depths below 40 feet bgs. However, due to encountering perched groundwater at shallower depths than anticipated (as discussed below), soil samples were collected at depths below 30 feet in the borings to install MW-3 and MW-4. SLR screened each soil sample, as well as the drill cuttings, for evidence of petroleum hydrocarbons such as sheen, staining, odor, and detectable PID readings. There was limited field evidence of petroleum hydrocarbons (PID readings of up to 18.4 parts per million) in any of the borings. Soil boring logs that present the field screening results are presented in Appendix B. To assess the soil conditions near the perched groundwater table, a soil sample collected from each boring, at a depth near the estimated perched groundwater table, was submitted to F&B for analysis. To delineate the vertical extent of the impacted perched groundwater, a soil sample collected from near the bottom of each boring was also submitted to F&B for analysis.

Each groundwater monitoring well was constructed with 2-inch-diameter schedule 40 PVC casing and screen. The screen (0.010-inch slots) for each well was installed at a depth that intersected the estimated perched groundwater table. Due to difficulty determining the perched groundwater table at several borings, the screen lengths ranged from 10 to 20 feet long to try to ensure that the screen intersected the water table. Hydrated bentonite chips were placed from the bottom of each boring to the bottom of the well. A filter pack of 10x20 ColoradoTM silica sand was installed from the bottom of the well to approximately 1.5 to 3 feet above the uppermost screen slot. Hydrated bentonite chips were placed above the sand pack to approximately 2 feet bgs. A flush-grade, traffic-rated, steel monument was installed in concrete to protect each well. After installation, Tacoma Pump developed the wells by using surging and bailing methods. The development water is stored on the property in properly labeled, 55-gallon drums, pending off-site disposal at an Ecology-approved facility. Soil boring logs that describe the well construction details are presented in Appendix B.

After installing the wells, Signature Surveying & Mapping, PLLC (Signature) of Shoreline, Washington, surveyed the location, and the ground surface and top of casing elevations of each well relative to the NAVD 88 datum. The top of casing elevations are presented in Table 1.

Conduct Groundwater Sampling Events

To assess the perched groundwater conditions and evaluate potential seasonal variations in groundwater elevations and water quality, SLR personnel conducted groundwater sampling events on June 14 and October 20, 2010. Immediately prior to sampling, the depths to groundwater were measured in all of the groundwater monitoring wells by using an electronic water level probe. The depth to groundwater measurements were converted to groundwater elevations by using the results of the well elevation survey.

Before the sample collection in June, SLR purged at least three pore volumes from each well by using a disposable PVC bailer. The bailers were also used to collect the samples. In October, a submersible Grundfos RediFlo 2 pump was used to purge and sample the wells by low flow (0.3 liters per minute) pumping methods. The pump intake was set at a depth of approximately 3 feet below the water table in each well. During purging, field parameters of temperature, conductivity, pH, dissolved oxygen, and oxidation-reduction potential were measured. Each groundwater sample was collected following the stabilization of the field parameter measurements. The groundwater samples were submitted to F&B for analysis. The purge water is stored on the property in properly labeled, 55-gallon drums, pending off-site disposal at an Ecology-approved facility.

SAMPLE ANALYTICAL RESULTS

Soil

In April 2010, F&B analyzed the soil sample from boring MW-1B that was collected at a depth of approximately 24.5 feet bgs. The sample was analyzed for GRO by Ecology Method NWTPH-Gx, for BTEX, methyl tertiary butyl ether (MTBE), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), and naphthalene by EPA Method 8260C, and for lead by EPA Method 200.8. The soil sample analytical results showed that the sample contained GRO and benzene concentrations (140 and 0.49 mg/kg, respectively) that exceeded the MTCA Method A soil cleanup levels (30 and 0.03 mg/kg, respectively). Toluene, ethylbenzene, total xylenes, naphthalene, and lead were detected at concentrations (5.70, 1.20, 6.70, 0.58, and 1.11 mg/kg, respectively) that were below the Method A cleanup levels (7, 6, 9, 5, and 250 mg/kg, respectively). The other analytes were not detected at concentrations above the MRLs. To obtain the additional data necessary to calculate a site-specific MTCA Method B soil cleanup level, if appropriate, the sample from MW-1B was also analyzed for volatile petroleum hydrocarbons (VPH) by Ecology Method NWVPH and hexane by EPA Method 8260C. The soil sample analytical results [GRO, BTEX, naphthalene, and lead only] are presented in Table 1, and copies of the laboratory reports are presented in Appendix C.

In June 2010, F&B analyzed soil samples from borings MW-1 (collected at depths of approximately 40 and 55 feet bgs), MW-2 (collected at depths of approximately 40 and 55.5 feet bgs), MW-3 (collected at depths of approximately 30.5 and 45.5 feet bgs), and MW-4 (collected at depths of approximately 30.5 and 55 feet) for GRO, BTEX, and naphthalene. The soil sample analytical results showed that both samples from MW-2 and the deep sample from MW-3 contained benzene concentrations (0.036 to 0.21 mg/kg) that exceeded the MTCA Method A soil cleanup level. The samples from MW-1 and MW-4 and the 30.5-foot-deep sample from MW-3 did not contain analyte concentrations that exceeded the MRLs. The soil sample analytical results are presented in Table 1, and copies of the laboratory reports are presented in Appendix C.

Groundwater

F&B analyzed the June 2010 groundwater samples for GRO by Ecology Method NWTPH-Gx, for BTEX, MTBE, EDC, and naphthalene by EPA Method 8260C, for EDB by EPA Method 8011 Modified, and for total lead by EPA Method 200.8. The analytical results showed that the sample from well MW-2 contained GRO, benzene, and ethylbenzene concentrations (8,400, 2,100, and 960 µg/L, respectively) that exceeded the MTCA Method A groundwater cleanup levels (800, 5, and 700 µg/L, respectively). The sample from MW-1 also contained GRO and benzene concentrations (990 and 110 µg/L, respectively) that exceeded the Method A cleanup levels. The samples from MW-3 and MW-4 contained analyte concentrations that were either below the Method A cleanup levels or below the MRLs.

F&B analyzed the October 2010 groundwater samples for GRO, BTEX, and naphthalene. The analytical results showed that the samples from MW-1 and MW-2 contained GRO concentrations (1,900 and 3,900 µg/L, respectively) and benzene concentrations (520 and 1,300 µg/L, respectively) that exceeded the MTCA Method A groundwater cleanup levels. The samples from MW-3 and MW-4 did not contain analyte concentrations that exceeded the MRLs. All of the groundwater sample analytical results are presented in Table 2, and the GRO and benzene concentrations are also shown on Figures 3 and 4. Copies of the laboratory reports are presented in Appendix C.

GEOLOGY AND HYDROGEOLOGY

The soils beneath the subject property consist of dense glacial advance outwash (sand, gravel, and silt units) with interbedded lacustrine silts to the maximum depth drilled (approximately 60 feet bgs). Specifically, thin surficial gravel fill is underlain by a sand (silty to gravelly) to gravel unit that is approximately 29 to 43 feet thick. Beneath the central and southern parts of the property, a 5- to 10-foot-thick sandy silt to silt is interbedded within the sand to gravel unit. The sand to gravel unit is underlain by clayey

to gravelly silt that is 15 to at least 23 feet thick. At MW-2, MW-3, and MW-4, a gravelly sand to sand and gravel that is approximately 5 to 7.5 feet thick is interbedded within the silt unit. At MW-1, the silt unit is underlain by a silty sand that extends beyond the bottom of the boring. A cross-sectional view of the shallow geology (to approximately 60 feet bgs) beneath the property (Section A-A') is shown on Figure 6. The location of the cross section is shown on Figure 5.

According to the driller's log for the water supply well (Well #2) located in the northern part of the property, a thick sequence of clay and cemented sand occurs from approximately 49 to 215 feet bgs. The deep water-bearing units at Well #2 occur at depths between 215 and 245 feet bgs. The well log is presented in Appendix D.

On June 14 and October 20, 2010, the groundwater table beneath the property occurred within the sand to gravel unit, and appeared to be perched on top of the underlying silt unit. On June 14th, the depths to the perched groundwater in the wells ranged from 23.92 to 41.33 feet below the tops of the well casings, and the groundwater elevations ranged from 252.69 to 271.41 feet above the NAVD 88 datum. On October 20th, the depths to the perched groundwater in the wells ranged from 26.67 to 40.71 feet below the tops of the well casings, and the groundwater elevations ranged from 253.08 to 268.66 feet above the NAVD 88 datum.

Groundwater flow appears to be controlled by the geometry of the clayey to gravelly silt, with flow converging into the low point of the top of the silt unit. The elevation of the silt is about 10 feet lower at monitoring wells MW-1 and MW-2 than at wells MW-3 and MW-4 (see Figure 6). From June to October, the perched groundwater elevations beneath the property decreased 2.75 feet at MW-4 and 3.51 feet at MW-3, while groundwater levels in wells located at the low point of the clayey to gravelly silt unit showed substantially less decline (1.08 feet at MW-2) or an increase (1.03 foot rise at MW-1). These water level changes are consistent with groundwater migrating from the higher parts of the silt unit and collecting in the lower parts of the silt. This interpretation is consistent with the greatest hydrocarbon impacts occurring at wells MW-1 and MW-2. Based on the known clayey to gravelly silt geometry and the area of petroleum hydrocarbon-impacted groundwater, there appears to be a flow component to the south-southwest. The groundwater monitoring data from both sampling events are presented in Table 3.

GROUNDWATER RECEPTOR SURVEY

SLR conducted a survey to identify the potential groundwater and surface water receptors in the vicinity of the subject property. The receptor survey included a review of Ecology and OWSI records of water supply wells located within a ½-mile radius of the property, a

review of a topographic map of the property area, and a survey of the elevations of the bottom of the gulley in the western part of the property.

Well Records

Ecology and OWSI well records identified 12 water supply wells located within a ½-mile radius of the property. Based on the well records, the locations of the wells are accurate to at least the quarter-quarter of a section. As shown on Figure 7, the wells are located to the north, northwest, and west of the area of impacted perched groundwater at the property. All of the available water supply well completion logs and a table that presents the well completion details are presented in Appendix D.

According to the well records, the groundwater from each of the supply wells in the property area is used for domestic purposes. There is one public water supply well (Well #2) located at the northern end of the property. The well is screened at depths ranging from 214 to 245 feet bgs. All of the identified water supply wells in the vicinity of the property are completed (screened or open casing) at depths between 157 and 377 feet. The soil descriptions on the well logs consistently note that a thick sequence of clay units occur above the deep groundwater-bearing zones. Groundwater flow directions in the deeper regional aquifer have been inferred to flow from the upland areas toward Port Ludlow (Economic and Engineering Services, Inc., 1994), indicating that the water supply wells are located hydraulically upgradient or cross-gradient of the impacted perched groundwater. Based on the presence of the clay and the inferred deep groundwater flow direction, it is unlikely that the impacted perched groundwater beneath the property could affect water quality in the deep groundwater-bearing zones. The lack of detectable petroleum hydrocarbons in the 1990, 2009, and 2010 water samples from Well #2 provides evidence to that assertion.

Topographic Map and Gulley Elevation Survey

Based on a review of a 1991 topographic map of the property area, there are two surface water bodies located within ½ mile of the property. Puget Sound (Port Ludlow Bay) is located approximately 2,900 feet to the south of the property, and an unnamed pond is located approximately 650 feet to the north of the property (see Figure 4). The pond is located at a ground surface elevation approximately 40 feet higher than the property, and it is unlikely that the perched groundwater beneath the property discharges into the pond.

The gulley located in the western part of the property extends south, beyond Oak Bay Road, to a low lying marshy area near Puget Sound. The topographic map does not indicate that surface water is present in the gulley, and on October 20, 2010, SLR personnel inspected the eastern slope and bottom of the gulley (within the property

boundaries) for the presence of perched groundwater seeps. There was no observed evidence of groundwater seepage and there was no surface water in the gulley at that time. The north end of the gulley (near Walker Way) is approximately 6 feet deep, and next to the southern boundary of the OWSI facility, the gulley is over 20 feet deep. To compare the perched groundwater elevations to the elevations of the bottom of the gulley, Signature surveyed the ground surface elevations at 17 locations on the bottom of the gulley relative to the NAVD 88 datum. The elevations of the bottom of the gulley range from 285.6 feet at the northern end of the gulley to 254.0 feet at the southern property line (see Figure 4). In October 2010, the groundwater elevation near the southern end of the OWSI facility (260.67 feet at MW-3) was 6.67 feet higher than the gulley floor approximately 155 feet to the southwest. Since groundwater seeps were not observed in the gulley, it appears that the perched groundwater elevations, at the time of the observations, were below the gulley floor.

The OWSI property is located near the top of a steep slope down to Puget Sound (see Figure 1). Since the topography slopes to the south and the gulley is oriented north-south and is over 2,500 feet long, the perched groundwater beneath the property may seep into the gulley at a location to the south of the property.

CONCLUSIONS

From April through October 2010, SLR conducted a subsurface investigation at the OWSI property to: 1) assess the gasoline concentrations in the soil at the area of the northern former gasoline USTs, 2) delineate the lateral and vertical extents of the gasoline-impacted perched groundwater, and 3) characterize seasonal effects on the perched groundwater elevations and water quality. Based on the investigation results, SLR presents the following conclusions related to the environmental conditions at the property.

Based on the soil sample analytical results from this investigation and from the UST removal activities, it appears that the former northern gasoline UST area is the source of the hydrocarbon-impacted perched groundwater. The field screening results and the soil and groundwater sample analytical results indicate that the gasoline did not migrate straight down to the groundwater zone. The area of remaining impacted soil within the vadose zone has not been fully delineated.

Low benzene concentrations (0.036 to 0.21 mg/kg), marginally above the MTCA Method A soil cleanup level, were detected at depths of up to 15 to 20 feet below the perched groundwater table. The benzene detected in the saturated soil samples likely reflects benzene dissolved in the pore water, rather than adsorbed to the soil. Since the low benzene concentrations in saturated soil likely reflect dissolved benzene in pore water,

SLR does not believe that further assessment of the vertical extent of impacts to soil is warranted.

Based on the groundwater sample analytical results from this investigation and from the 2009 drilling of Well #17, petroleum hydrocarbon concentrations greater than the MTCA Method A groundwater cleanup levels occur near the source area (former northern gasoline UST area) and extend to the south and southwest. The estimated area of the impacted groundwater is shown on Figure 8. The impacted groundwater likely extends beyond the western fenceline of the OWSI facility; however, that area of the OWSI property is not accessible for investigation. The southern and northern extents of the impacted groundwater have been delineated. Although the eastern extent of the impacted groundwater has not been delineated, the current distribution of groundwater concentrations suggest that eastward migration of the impacted groundwater is unlikely.

The vertical extent of the hydrocarbon-impacted perched groundwater was not fully delineated at all areas; however, due to the presence of a thick sequence of clay units beneath the property area, the potential for migration of the impacted groundwater to a deeper water-bearing unit is considered very low. SLR does not believe that further assessment of the vertical extent of the impacted groundwater is necessary.

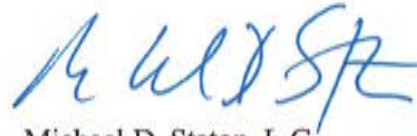
If you have any questions, please call Mike Staton at (425) 471-0479.

Sincerely,

SLR International Corp



Kim A. Saganski, L.G.
Senior Geologist



Michael D. Staton, L.G.
Principal Geologist

Attachments: Limitations
References
Tables 1, 2, and 3
Figures 1 through 8
Appendix A – Laboratory Report for Well #2 Sample Collected in 2010
Appendix B – Soil Boring Logs
Appendix C – Laboratory Reports
Appendix D – Water Supply Well Logs

cc: Sue Schroader, Olympic Property Group
Diana Smeland, Port Ludlow Associates
Joe Rehberger, Cascadia Law Group
Chip Goodhue, Aspect Consulting Group
Tom Kilbane, Short Cressman & Burgess, PLLC

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

REFERENCES

- Applied Geotechnology, Inc. 1991. *Hydrocarbon Contamination Assessment and Underground Storage Tank Removal, Port Ludlow Water District, Port Ludlow, Washington*. March 4.
- Economic and Engineering Services, Inc. (in association with Pacific Groundwater Group). 1994. *Eastern Jefferson County Groundwater Characterization Study*. May.
- Robinson Noble & Saltbush, Inc. 2009. *Well 17 Site Contamination, Initial Findings, and Recommendations*. April 26.

TABLES

Table 1
Soil Sample Analytical Results - BTEX, Naphthalene, GRO, and Lead
Olympic Water and Sewer Property
Port Ludlow, Washington

Soil Boring Number	Sample Name	Date Collected	Approximate Sample Depth (feet)	Analytical Results (mg/kg)						
				Benzene ²	Toluene ²	Ethylbenzene ²	Total Xylenes ²	Naphthalene ²	GRO ³	Lead ⁴
MICA Method A Cleanup Levels⁵				0.03	7	6	9	5 ⁶	30	250
MW-1B	MW1-24.5-25	4/14/2010	24.5 to 25	0.49	5.70	1.20	6.70	0.58	140	1.11
MW-1	MW1-40 ⁷	6/8/2010	40 to 40.3	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-1	MW1-55 ⁷	6/8/2010	55 to 55.5	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-2	MW2-40 ⁷	6/9/2010	40 to 40.3	0.21 ¹	0.062	0.11	0.066	<0.05	2.90	NA
MW-2	MW2-55.5 ⁷	6/9/2010	55.5 to 55.8	0.21 ¹	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-3	MW3-30.5 ⁷	6/9/2010	30.5 to 30.9	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-3	MW3-45.5	6/10/2010	45.5 to 45.9	0.036 ¹	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-4	MW4-31	6/10/2010	30.5 to 31	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA
MW-4	MW4-55	6/11/2010	55 to 55.5	<0.03	<0.05	<0.05	<0.15	<0.05	<2	NA

NOTES:
 mg/kg = milligrams per kilogram (ppm).
 Values in **bold** exceed the soil cleanup levels.
 NA = Not analyzed.
²Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and naphthalene by EPA Method 8260C.
³Gasoline-range organics (GRO) by Ecology Method NWTPH-Gx.
⁴Lead by EPA Method 200.8.
⁵Chapter 173-340 WAC, Model Toxics Control Act (MTC) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.
⁶The cleanup level is the total value for naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene.
⁷The benzene concentration in this sample likely reflects dissolved benzene in pore water rather than benzene adsorbed to the soil.

Table 2
Groundwater Sample Analytical Results
Olympic Water and Sewer Property
Port Ludlow, Washington

Well Number	Date Collected	Analytical Results (µg/L)										
		Benzene ^a	Toluene ^a	Ethylbenzene ^a	Total Xylenes ^a	Naphthalene ^a	MTBE ^a	EDC ^a	EDB ^b	GRO ^c	Total Lead ^d	
MTCA Method A Cleanup Levels ^e		5	1,000	700	1,000	160^f	20	5	0.01	800	15	
MW-1	6/14/2010	110	45	1.10	186	<1	<1	<1	<0.01	990	<1	
	10/20/2010	520	140	110	221	15	NA	NA	NA	1,900	NA	
MW-2	6/14/2010	2,100	620	960	650	100	<1	<1	<0.01	8,400	<1	
	10/20/2010	1,300	290	430	530	35	NA	NA	NA	3,900	NA	
MW-3	6/14/2010	0.36	<1	<1	<3	<1	<1	<1	<0.01	<100	<1	
	10/20/2010	<0.35	<1	<1	<3	<1	NA	NA	NA	<100	NA	
MW-4	6/14/2010	<0.35	<1	<1	<3	<1	<1	<1	<0.01	<100	<1	
	10/20/2010	<0.35	<1	<1	<3	<1	NA	NA	NA	<100	NA	

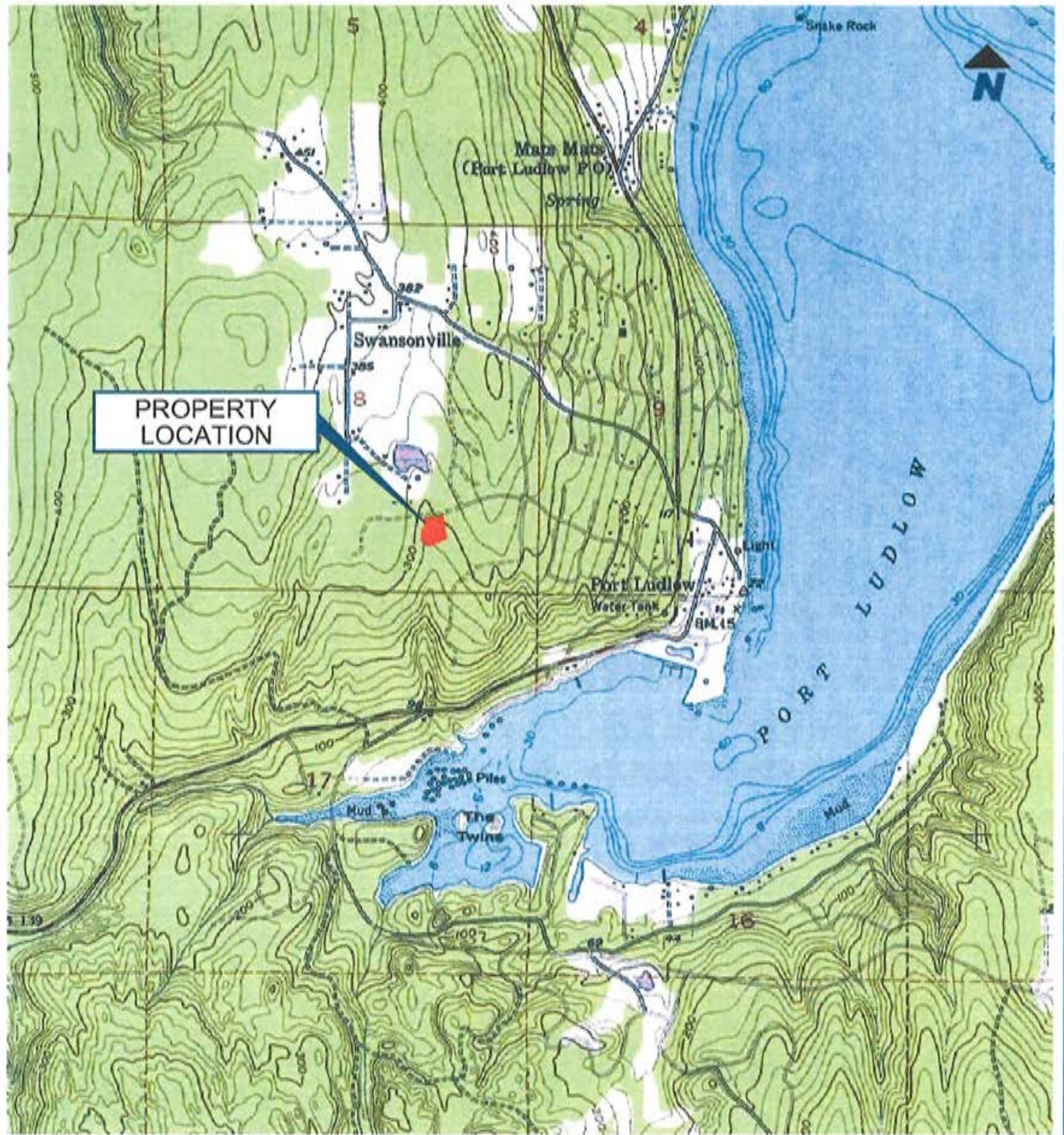
NOTES:
 µg/L = micrograms per liter (ppb).
 Values shaded and in bold exceed the groundwater cleanup levels.
 NA = Not analyzed.
^aBenzene, toluene, ethylbenzene, and total xylenes (BTEX), naphthalene, methyl tertiary butyl ether (MTBE), and 1,2-dichloroethane (EDC) by EPA Method 8260C.
^b1,2-dibromoethane (EDB) by EPA Method 8011 Modified.
^cGasoline-range organics (GRO) by Ecology Method NWTPH-Gx.
^dTotal lead by EPA Method 200.8.
^eChapter 173-340 WAC, Model Toxics Control Act (MTC-A) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.
^fThe cleanup level is the total value for naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene.

Table 3
Groundwater Monitoring Data
Olympic Water and Sewer Property
Port Ludlow, Washington

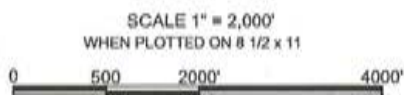
Well Number	Top of Casing Elevation ^a (feet)	Date Measured	Depth to Groundwater ^b (feet)	Groundwater Elevation (feet)
MW-1	294.02	6/14/2010	41.33	252.69
		10/20/2010	40.30	253.72
MW-2	293.79	6/14/2010	39.63	254.16
		10/20/2010	40.71	253.08
MW-3	289.37	6/14/2010	25.19	264.18
		10/20/2010	28.70	260.67
MW-4	295.33	6/14/2010	23.92	271.41
		10/20/2010	26.67	268.66

Notes:
^aTop of casing elevations were surveyed relative to the NAVD 88 datum.
^bDepth to groundwater measured in feet below top of PVC casing.

FIGURES



SOURCE: USGS 7.5 MINUTE QUADRANGLE PORT LUDLOW, WA 1991;
 CONTOUR INTERVAL, 20 FEET.



THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL
 LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.



OLYMPIC WATER & SEWER, INC. PROPERTY
 781 WALKER WAY
 PORT LUDLOW, WASHINGTON

Report
 SITE CHARACTERIZATION REPORT

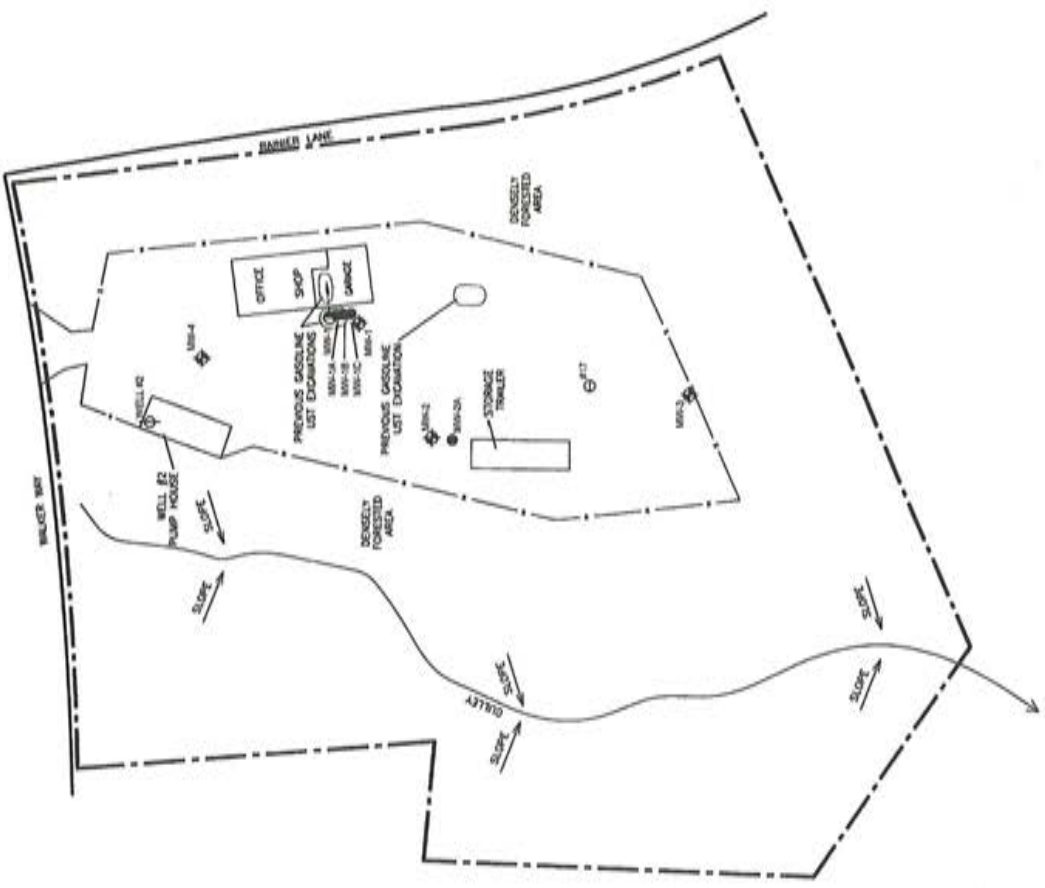
Drawing
 PROPERTY LOCATION MAP

Date	JULY 6, 2010	Scale	1"=2000'	Fig. No.	1
File Name	01-01.DWG	Project No.	101.00433.00001		

NOTES

LEGEND

- PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- APPROXIMATE SOIL BORING LOCATION AND DESIGNATION
- EXISTING CASING LOCATION AND DESIGNATION
- EXISTING WATER SUPPLY WELL LOCATION AND DESIGNATION
- PREVIOUS ANGLE BORING LOCATION, DESIGNATION, AND DIRECTION FROM VERTICAL
- FENCE



SCALE: 1" = 50'
 0 50 100 150'
 HORIZONTAL DISTANCE
 VERTICAL DISTANCE

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

OLYMPIC WATER & SEWER, INC. PROPERTY
 781 WALKER WAY
 PORT LUDLOW, WASHINGTON

REPORT
 SITE CHARACTERIZATION REPORT

DRAWING
 GROUNDWATER MONITORING WELL LOCATIONS

DATE: JUL 12, 2010
 DRAWN BY: J. B. BROWN
 PROJECT NO.: 10-1-00000001
 FIG. NO.: 2



NOTES



THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

LEGEND

- PROPERTY BOUNDARY
- ⊕ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- ⊕ (283.75) PAVED-GROUNDWATER ELEVATION (IN FEET ABOVE MWD (88 DATUM))
- ⊕ (282.8) B-BENZENE CONCENTRATION IN GROUNDWATER SAMPLE (IN PPB)
- ⊕ (282.0) D-DICHO CONCENTRATION IN GROUNDWATER SAMPLE (IN PPB)
- ⊕ #17 EXISTING CASING LOCATION AND DESIGNATION
- ⊕ EXISTING WATER SUPPLY WELL LOCATION AND DESIGNATION
- FENCE
- [285.5] Δ BOTTOM OF GULLY ELEVATION (IN FEET ABOVE MWD (88 DATUM))

NOTE: CONCENTRATIONS IN BOLD INDICATE THE MTECA METHOD 4 GROUNDWATER CLEANUP LEVELS

OLYMPIC WATER & SEWER, INC. PROPERTY
781 WALKER WAY
PORT LUDLOW, WASHINGTON

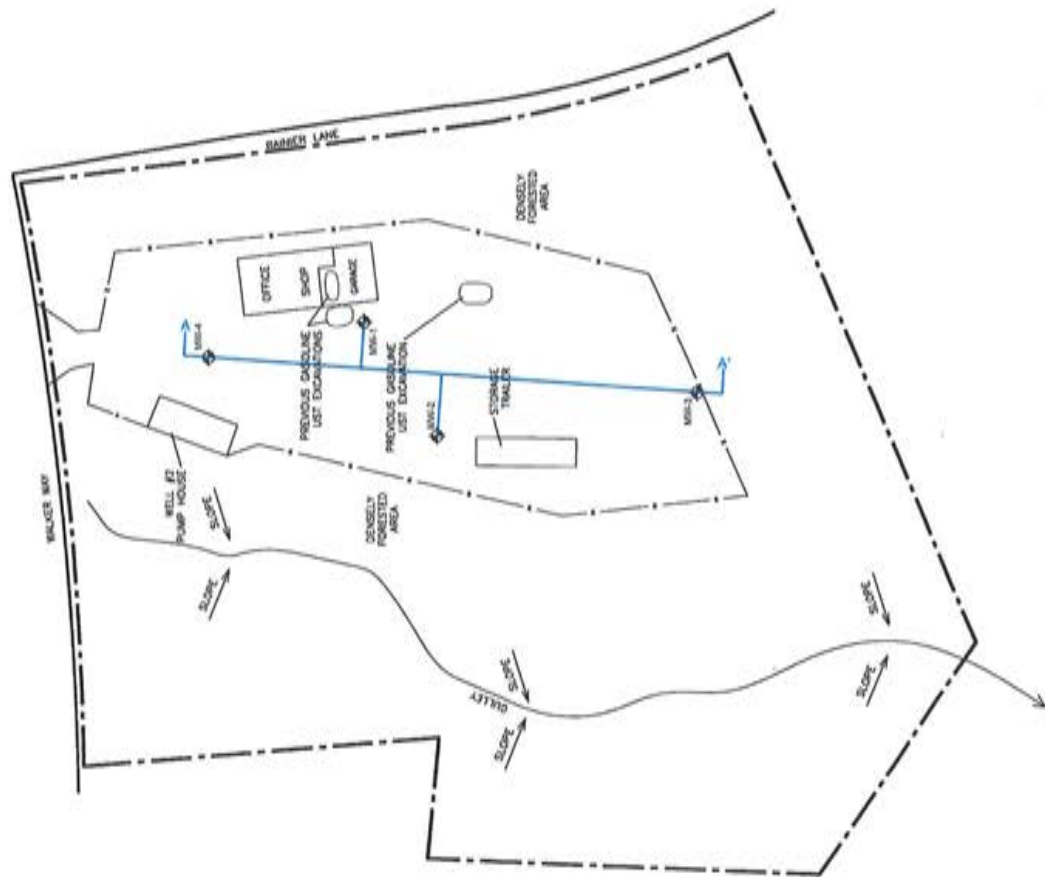
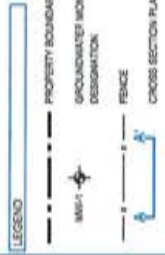
Report
SITE CHARACTERIZATION REPORT

Client
PERCHED GROUNDWATER SAMPLING
RESULTS - OCTOBER 2010

Date July 12, 2010
Scale AS PICTURE
File Name
Project No. 07-0000000001
Fig. No. 4



NOTES



SCALE: 1" = 50'
 WHEN PLOTTED AT 11" x 17" PAGE SIZE
 0 50 100 150'

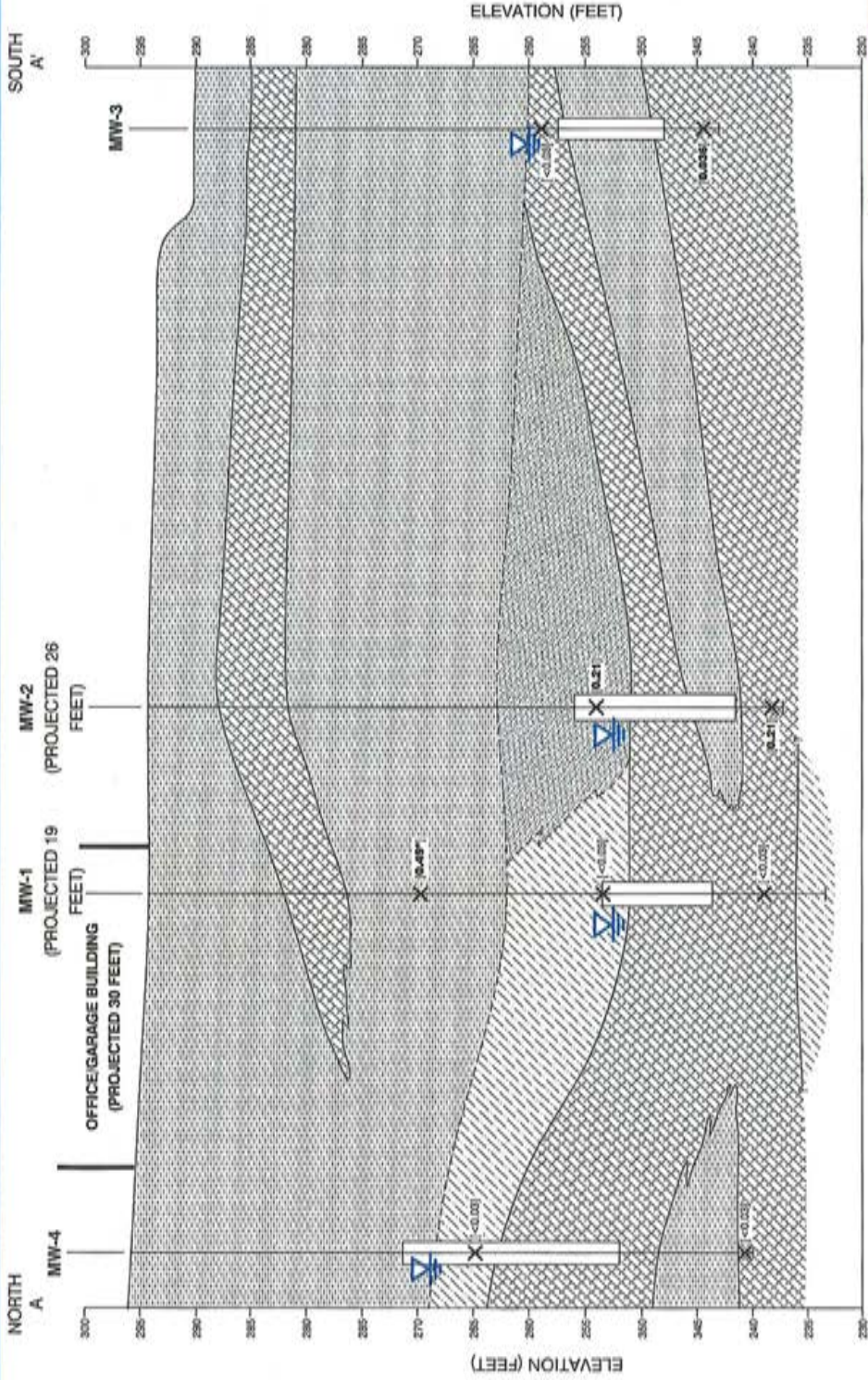
THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

OLYMPIC WATER & SEWER, INC. PROPERTY
781 WALKER WAY
PORT LUDLOW, WASHINGTON

Report
SITE CHARACTERIZATION REPORT

Drawn by
LOCATION OF GEOLOGIC CROSS SECTION A-A'

Date	July 13, 2010	Scale	AS SHOWN	Fig. No.	5
File Name		Project No.	07-20001-0001		



CLIENT
OLYMPIC WATER & SEWER, INC. PROPERTY
781 WALKER WAY
PORT LUDLOW, WASHINGTON

REPORT
SITE CHARACTERIZATION REPORT

DRAWING
GEOLOGIC CROSS SECTION A-A'

DATE AUG 12, 2010
SCALE AS SHOWN
PROJECT FILE 101-200410001
FIG. NO. 6



- LEGEND**
- INFERRED GEOLOGIC CONTACT
 - EXPLORATION LOCATION AND DESIGNATION
 - SCREEN LOCATION
 - INFERRED GROUNDWATER TABLE SURFACE ELEVATION
 - BENZENE CONCENTRATIONS IN SOIL SAMPLE IN MOUND
 - GRAVEL AND SANDY GRAVEL (SP)
 - SAND, GRAVELLY SAND, AND SAND AND GRAVEL (SP)
 - SILTY SAND (SM) AND SILTY GRAVEL (SM)
 - SILT, CLAYEY SILT, SAND SILT, AND GRAVELLY SILT (MU)

NOTES

- CROSS SECTION LOCATION IS SHOWN ON FIGURE 5
- ELEVATIONS ARE RELATIVE TO NAVD 88 DATUM
- CONCENTRATIONS IN BOLD EXCEEDED THE APTCA METHOD 4 SOIL CLEANUP LEVEL.
- ** SAMPLE COLLECTED FROM ADJACENT SOILING 50M-18.





SOURCE: USGS 7.5 MINUTE QUADRANGLE PORT LUDLOW, WA 1991;
 CONTOUR INTERVAL, 20 FEET.

LEGEND

6 X APPROXIMATE WATER SUPPLY WELL LOCATION AND SLR DESIGNATED NUMBER

SCALE 1" = 2,000'
 WHEN PLOTTED ON 8 1/2 x 11



THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

OLYMPIC WATER & SEWER, INC. PROPERTY
781 WALKER WAY
PORT LUDLOW, WASHINGTON

Report

SITE CHARACTERIZATION REPORT

Drawing

WATER SUPPLY WELL LOCATION MAP

Date JULY 12, 2010

Scale 1"=2000'

Fig. No.

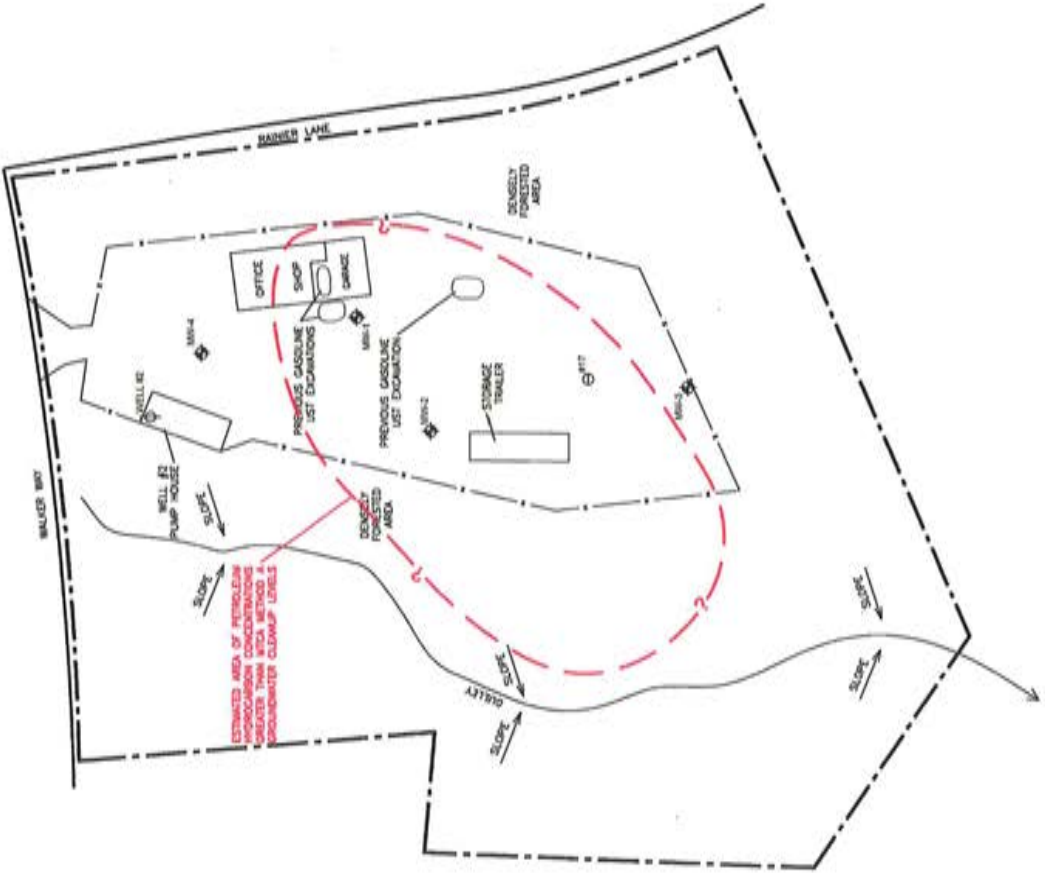
File Name 01-03.OWG

Project No. 101.00433.00001

7



NOTES



- LEGEND**
- PROPERTY BOUNDARY
 - GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - EXISTING CASING LOCATION AND DESIGNATION
 - EXISTING WATER SUPPLY WELL LOCATION AND DESIGNATION
 - FENCE

OLYMPIC WATER & SEWER, INC. PROPERTY
781 WALKER WAY
PORT LUDLOW, WASHINGTON

Report
SITE CHARACTERIZATION REPORT

Client
ESTIMATED AREA OF PETROLEUM
HYDROCARBON-IMPACTED PERCHED GROUNDWATER

Date: JUL 12, 2010
Scale: AS SHOWN
Project No.: 101-20023.00001
Fig. No.: 8



SCALE: 1" = 50'
INCHES BETWEEN TITLS = 100 FEET
0 50 100 150'

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

APPENDIX A

**LABORATORY REPORT FOR WELL #2 SAMPLE
COLLECTED IN 2010**

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

VOC - VOC1

VOC - VOC1 by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected: 4/15/2010	Group: A
System ID No: 68700L	System Name: Olympic Water And Sewer
Lab - Sample #: 01055901	County: Jefferson
Sample Location: Well #2 Sink	DOH Source No: S01
Sample Purpose: I	Date Received: 4/15/2010
Sample Composition: S	Date Analyzed: 4/22/2010
Send Report To: Olympic Water And Sewer 781 Walker Way Port Ludlow, WA 98365	Date Reported: 4/23/2010
	Sample Type: Post-treatment/Finished
	Collected By: Greg Rae
	Phone Number: 360-437-7898
	Bill To: Olympic Water And Sewer 781 Walker Way Port Ludlow, WA 98365

DOH#	Analyte	Results	Units	SRL	Trigger	MCL ^a	MCL Exceeded	Method (Analyst Init.)
EPA/State Regulated								
103	1,2-Dibromo-3-Chloropropane	ND	ug/L	0.5	0.5	0.2		EPA 524.2 (TM)
160	Total Xylenes	ND	ug/L	0.5	0.5	10000		EPA 524.2 (TM)
57	T-1,2-Dichloroethene	ND	ug/L	0.5	0.5	100		EPA 524.2 (TM)
60	Cis-1,2-Dichloroethene	ND	ug/L	0.5	0.5	70		EPA 524.2 (TM)
47	1,1,1-Trichloroethane	ND	ug/L	0.5	0.5	200		EPA 524.2 (TM)
48	Carbon Tetrachloride	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
49	Benzene	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
50	1,2-Dichloroethane	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
51	Trichloroethene	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
63	1,2-Dichloropropane	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
66	Toluene	ND	ug/L	0.5	0.5	1000		EPA 524.2 (TM)
67	1,1,2-Trichloroethane	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
68	Tetrachloroethene	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)
71	Chlorobenzene	ND	ug/L	0.5	0.5	100		EPA 524.2 (TM)
73	Ethyl Benzene	ND	ug/L	0.5	0.5	700		EPA 524.2 (TM)
74	M/P Xylene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
45	Vinyl Chloride	ND	ug/L	0.5	0.5	2		EPA 524.2 (TM)
75	O-Xylene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
76	Styrene	ND	ug/L	0.5	0.5	100		EPA 524.2 (TM)
52	P-Dichlorobenzene	ND	ug/L	0.5	0.5	75		EPA 524.2 (TM)
84	O-Dichlorobenzene	ND	ug/L	0.5	0.5	600		EPA 524.2 (TM)
95	1,2,4-Trichlorobenzene	ND	ug/L	0.5	0.5	70		EPA 524.2 (TM)
46	1,1-Dichloroethylene	ND	ug/L	0.5	0.5	7		EPA 524.2 (TM)
56	Methylene Chloride	ND	ug/L	0.5	0.5	5		EPA 524.2 (TM)

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

VOC - VOC1
VOC - VOC1 by Various EPA Approved Methods
Source / Point of Entry - Report of Analysis

Date Collected: 4/15/2010	Group: A
System ID No: 68700L	System Name: Olympic Water And Sewer
Lab - Sample #: 01055901	County: Jefferson
Sample Location: Well #2 Sink	DOH Source No: S01
Sample Purpose: I	Date Received: 4/15/2010
Sample Composition: S	Date Analyzed: 4/22/2010
Send Report To: Olympic Water And Sewer	Date Reported: 4/23/2010
781 Walker Way	Sample Type: Post-treatment/Finished
Port Ludlow, WA 98365	Collected By: Greg Rae
	Phone Number: 360-437-7898
	Bill To: Olympic Water And Sewer
	781 Walker Way
	Port Ludlow, WA 98365

DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL Exceeded	Method (Analyst Init.)
EPA Unregulated								
58	1,1-Dichloroethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
59	2,2-Dichloropropane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
86	Bromochloromethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
62	1,1-Dichloropropene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
104	Dichlorodifluoromethane	ND	ug/L	0.5	0.5	530		EPA 524.2 (TM)
64	Dibromofluoromethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
65	Cis-1,3-Dichloropropene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
69	Trans-1,3-Dichloropropene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
53	Chloromethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
70	1,3-Dichloropropane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
72	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
87	Isopropylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
79	1,2,3-Trichloropropane	ND	ug/L	0.5	0.5	21		EPA 524.2 (TM)
78	Bromobenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
80	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
81	O-Chlorotoluene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
88	N-Propylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
89	1,3,5-Trimethylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
54	Bromomethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
82	P-Chlorotoluene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
90	Tert-Butylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
91	1,2,4-Trimethylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
92	Sec-Butylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
83	M-Dichlorobenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
93	P-Isopropyltoluene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
94	N-Butylbenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
55	Chloroethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
97	Hexachlorobutadiene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
96	Naphthalene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
98	1,2,3-Trichlorobenzene	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
85	Trichlorofluoromethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
EPA Regulated - Trihalomethanes Program								
31	Total Trihalomethanes	ND	ug/L		60	80		EPA 524.2 (TM)
27	Chloroform	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
28	Bromodichloromethane	ND	ug/L	0.5				EPA 524.2 (TM)
29	Dibromochloromethane	ND	ug/L	1.5				EPA 524.2 (TM)
30	Bromoform	ND	ug/L	0.6				EPA 524.2 (TM)

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

VOC - VOC1

VOC - VOC1 by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected: 4/15/2010	Group: A
System ID No: 68700L	System Name: Olympic Water And Sewer
Lab - Sample #: 01055901	County: Jefferson
Sample Location: Well #2 Sink	DOH Source No: S01
Sample Purpose: I	Date Received: 4/15/2010
Sample Composition: S	Date Analyzed: 4/22/2010
Send Report To: Olympic Water And Sewer	Date Reported: 4/23/2010
781 Walker Way	Sample Type: Post-treatment/Finished
Port Ludlow, WA 98365	Collected By: Greg Rae
	Phone Number: 360-437-7898
	Bill To: Olympic Water And Sewer
	781 Walker Way
	Port Ludlow, WA 98365

DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL Exceeded	Method (Analyst Init.)
------	---------	---------	-------	-----	---------	------	--------------	------------------------

SRL: (State Reporting Level), indicates the minimum reporting level required by the Washington Department of Health (DOH).
 Trigger Level: DOH Drinking Water response level. Systems with compounds detected at concentrations in excess of this level are required to take additional samples. Contact your regional DOH office for further information.
 MCL: (Maximum Contaminant Level), If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.
 NA: (Not Analyzed), in the results column indicates this compound was not included in the current analysis.
 ND: (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL.
 < (0.00x): indicates the compound was not detected in the sample at or above the concentration indicated.
 * The 0.010 mg/L MCL for Arsenic is for Group A NTNC systems. All other systems should check with their county Health District to determine what level is applicable.

APPENDIX B
SOIL BORING LOGS



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

BORING NUMBER MW-1A

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 4/14/10 COMPLETED 4/14/10 GROUND ELEVATION _____ HOLE SIZE 8.25-inch-diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0						GP		GRAVEL, crushed rock parking lot surface.	
0.5								SAND, brown, fine-grained, few fine gravel, very loose, moist, no hydrocarbon-like odors or staining.	
2.5						SP			
5.0	X	D&M		50	3				0.1
6.5								SILTY SAND, brown, fine-grained, little silt, few fine gravel, very dense, moist to wet, slight hydrocarbon-like odor.	
7.5								@ 7.5 feet: Becomes wet, gray.	
9.5	X	D&M		100	50	SM		@ 9.5 feet: Gravel becomes fine to coarse, paper debris in sampler.	5.5
10.0									
12.0									

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL OWISLGPJ GINT US.GDT 7/13/10



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

BORING NUMBER MW-1A

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
12.5								SILT, gray, few fine-grained sand, hard, moist, moderate hydrocarbon-like odor.	
	X	D&M		100	50/6"	ML			4.9
15.0									
17.5									
	X	D&M		100	50/6"	SP			43.9

Refusal at 19.5 feet; abandoned boring with hydrated bentonite and drilled three feet south (MW-1B).

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 4/14/10 COMPLETED 4/14/10 GROUND ELEVATION _____ HOLE SIZE 8.25-inch-diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0						GP		GRAVEL, crushed rock parking lot surface.	
2.5						SP		SAND, brown, fine-grained, few fine gravel, moist, no hydrocarbon-like odors or staining.	
5.0									
7.5									
10.0						SM		SILTY SAND, brown, fine-grained, little silt, few fine gravel, moist to wet, slight hydrocarbon-like odor.	
12.0									

REMARKS
 D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL CIVIL/GP1 GINT US GDT 7/13/10



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

BORING NUMBER MW-1B

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
12.5								SILT, gray, few fine-grained sand, moist, moderate hydrocarbon-like odor.	
15.0						ML			
16.5								SAND, gray, very fine-grained, few fine gravel, few cobbles, very dense, damp, strong hydrocarbon-like odor.	
17.5									
20.0						SP			
22.5								@ 22.0 feet: Becomes brownish gray.	
24.0								@ 24.0 feet: Very strong hydrocarbon-like odor.	
25.0	D&M		MW1-24.5-25**	100	50/6"				2,948

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL OWSI/GPJ GINT US.GDT 7/13/10



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SLR International Corp Fax: 425.402.8488

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
27.5							SP	SAND , gray, very fine-grained, few fine gravel, few cobbles, very dense, damp, strong hydrocarbon-like odor. <i>(continued)</i>	
30.0	X	D&M		100	50				@ 29.0 feet: Strong hydrocarbon-like odor.
32.5							SM	SILTY SAND , brownish gray, very fine-grained, little silt, trace fine gravel, few cobbles, very dense, moist to very moist, slight hydrocarbon-like odor.	
35.0	X	D&M		100	70/9"				7.8
37.5									
							39.0		

Refusal at 39.0 feet; abandoned boring with hydrated bentonite and drilled three feet south (MW-1C).

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
PID = Photoionization detector.

* = Sample submitted for laboratory analysis.

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CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 4/14/10 COMPLETED 4/14/10 GROUND ELEVATION _____ HOLE SIZE 8.25-inch-diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0				GP		GRAVEL, crushed rock parking lot surface.
0.5						SAND, brown, fine-grained, few fine gravel, moist, no odors or staining.
2.5				SP		
5.0						
6.6						SILTY SAND, brown, fine-grained, little silt, few fine gravel, moist to wet, slight hydrocarbon-like odor.
7.5						
10.0				SM		
12.0						

SLR GENERAL C:\MSL\GPI\GINT US\GOT 711310

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.



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BORING NUMBER MW-1C

PAGE 2 OF 3

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5						
15.0				ML		SILT, gray, few fine-grained sand, moist, moderate hydrocarbon-like odor.
16.5						
17.5						
20.0				SP		
22.5						
25.0						

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photolization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL 04/MSI/CPJ GINT US G01 7/13/10

(Continued Next Page)




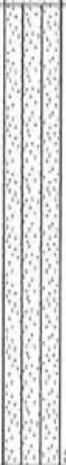
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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
27.5				SP		SAND, gray, very fine-grained, few fine gravel, few cobbles, damp, strong hydrocarbon-like odor. (continued)
30.0						
31.5						
32.5				SM		SILTY SAND, brownish gray, very fine-grained, little silt, trace fine gravel, few cobbles, moist to very moist, slight hydrocarbon-like odor.
35.0						
36.5						Refusal at 36.5 feet; abandoned boring with hydrated bentonite.

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL 0\MS\GPJ GINT US.GDT 7/13/10





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BORING NUMBER MW-2A

PAGE 1 OF 3

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 4/14/10 COMPLETED 4/14/10 GROUND ELEVATION _____ HOLE SIZE 8.25-inch-diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0									
2.5						SP		GRAVELLY SAND, brownish gray, fine-grained, little fine to medium gravel, moist, no hydrocarbon-like odors or staining.	
5.0		D&M		0				@ 5.0 feet: No sample recovery.	
7.5									
10.0		X D&M		75	70/9"	ML		SANDY SILT, brownish gray, little very fine-grained sand, few fine to medium gravel, hard, moist to very moist, no hydrocarbon-like odors or staining.	0

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL DWISL.GPJ GINT US.GDT 7/13/10

(Continued Next Page)



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BORING NUMBER MW-2A


PAGE 2 OF 3

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
12.5						ML		SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining.	
	X	D&M		100	50/2"				0
15.0									
	X	D&M		100	50/6"	SP		@ 16.5 feet: Becomes very fine- to fine-grained, no medium or coarse gravel, moist.	0
20.0									
22.5									
25.0	X	D&M		50	79				0

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL OWMS.GPJ GINT US GDT 7/13/10

(Continued Next Page)



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BORING NUMBER MW-2A


PAGE 3 OF 3

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
27.5						SP		SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining. (continued)	
	X	D&M		100	50/6"				0

Refusal at 29.5 feet; abandoned boring with hydrated bentonite.

REMARKS

D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
12.5								SILT, gray, few fine-grained sand, moist, no hydrocarbon-like odors or staining.		
15.0						ML			0	
17.5										
18.0										
18.0								SAND, gray, very fine-grained, few fine gravel, few cobbles, damp.		
20.0								@ 20.0 feet: Few fine gravel.	0	
22.5						SP		@ 22.0 feet: Moderate hydrocarbon-like odor in cuttings.		
25.0									0	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
27.5								SAND, gray, very fine-grained, few fine gravel, few cobbles, damp. (continued)		
30.0						SP			0	
31.5								SILTY SAND, grayish brown, very fine- to fine-grained, little silt, few fine to medium gravel, few cobbles, very dense, moist, no hydrocarbon-like odors or staining.		
32.5									0	
35.0										
37.5						SM			0	
40.0										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL 04/15/01 GINT US G01 7/13/10



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
40.0	X	SS	MW1-40*	100	50/4"					
						SM		SILTY SAND, grayish brown, very fine- to fine-grained, little silt, few fine to medium gravel, few cobbles, very dense, moist, no hydrocarbon-like odors or staining. (continued)	0	
42.5							42.5	SILT, grayish brown, hard, moist, no hydrocarbon-like odors or staining.		248.3
45.0	X	SS		75	44	ML			0	
47.5							48.0	CLAYEY SILT, brown, little clay, few fine gravel, hard, damp, no hydrocarbon-like odors or staining.		242.8
50.0	X	SS		100	100	ML			0	
52.5						ML		SANDY SILT, grayish brown, little very fine-grained sand, few fine gravel, hard, damp, no hydrocarbon-like odors or staining.		238.3

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL OWSL.GPJ GINT US.GDT 7/13/10



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CLIENT Olympic Water and Sewer, Inc.
 PROJECT NUMBER 101.00433.00001

PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
55.0	X	SS	MW1-55*	100	100/6"	ML		SANDY SILT, grayish brown, little very fine-grained sand, few fine gravel, hard, damp, no hydrocarbon-like odors or staining. (continued)	0	
57.5										
60.0	X	SS		90	50/2"	SM		SILTY SAND, brownish gray, very fine- to fine-grained, little silt, trace fine gravel, very dense, damp, no hydrocarbon-like odors or staining.	0	
60.7									230.1	

Boring completed at 60.7 feet.

WELL COMPLETION DETAILS

0.0 to 40.2 feet: Flush-threaded, 2.0-inch-diameter PVC blank riser pipe
 40.2 to 50.0 feet: Flush-threaded, 2.0-inch-diameter 0.010"-machine slotted PVC well screen
 50.0 to 50.3 feet: Flush-threaded, 2.0-inch-diameter PVC end cap
 0.0 to 2.0 feet: Concrete surface seal
 2.0 to 37.0 feet: Hydrated medium bentonite chips
 37.0 to 50.5 feet: Carmeuse Industrial Sands 10x20 Colorado silica sand pack
 50.5 to 60.7 feet: Hydrated medium bentonite chips

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

SLR GENERAL QWSLGPJ GINT US.GOT 7/13/10



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WELL NUMBER MW-2

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 6/8/10 COMPLETED 6/9/10 GROUND ELEVATION 290.56 ft HOLE SIZE 8-inch-diameter
 DRILLING CONTRACTOR Tacoma Pump & Drilling GROUND WATER LEVELS:
 DRILLING METHOD Air Rotary ∇ AT TIME OF DRILLING 48.0 ft / Elev 242.6 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0						GP	0.0	GRAVEL, crushed rock parking lot surface.	290.3	
2.5						SP	0.3	GRAVELLY SAND, brown, fine-grained, little fine to medium gravel, damp, no hydrocarbon-like odors or staining.		CONCRETE SURFACE SEAL
5.0									0	HYDRATED BENTONITE CHIPS
7.5						ML	6.5	SANDY SILT, brownish gray, little very fine-grained sand, few fine to medium gravel, hard, moist to very moist, no hydrocarbon-like odors or staining.	284.1	
10.0									0	BLANK PVC RISER

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL OWNS: GPJ GINT US GDT 7/13/10



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
12.5						ML		SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining.	278.1	
15.0									0	
17.5										
20.0						SP			0	
22.5										
25.0									0	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

Water level at time of drilling.

SLR GENERAL 01WSLGPJ GINT US.GDT 7/13/10



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
27.5								SAND, gray, very fine-grained, few fine to coarse gravel, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining. (continued)		
30.0						SP			0	
31.0								GRAVEL, brown, fine to medium, some cobbles, few fine-grained sand, trace fines, very dense, damp, no hydrocarbon-like odors or staining. @33.0 feet: Few silt, trace fine-grained sand.		
32.5										
35.0						GP			0	
37.5								@37.0 feet: Becomes moist.		
40.0										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

(Continued Next Page)

SLR GENERAL OWSI: GPJ GINT US_GDT 7/13/10



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WELL NUMBER MW-2

PAGE 4 OF 5

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PiD (ppm)	WELL DIAGRAM
40.0	X	SS*	MW2-40**	100	50					
						GP		GRAVEL, brown, fine to medium, some cobbles, few fine-grained sand, trace fines, very dense, damp, no hydrocarbon-like odors or staining. (continued) @ 40.0 feet: Cobble fragments in split-spoon sampler. Slight hydrocarbon-like odor.	14.9	10x20 SILICA SAND PACK
42.5										
43.0									247.6	
								GRAVELLY SILT, grayish brown, little fine to coarse gravel, hard, moist, no hydrocarbon-like odors or staining.		
45.0	X	SS		100	50/5"	ML				0.010"-SLOTTED PVC SCREEN
47.5										
48.0									242.6	
								GRAVELLY SAND, brown, fine- to coarse-grained, some fine to coarse gravel and cobbles, trace fines, dense, wet, slight hydrocarbon-like odor.		
50.0	X	SS		100	50	SW				
52.5										
53.0						ML			237.6	PVC END CAP
								GRAVELLY SILT, brown, some fine- to coarse gravel and cobbles, trace clay, hard, moist, no hydrocarbon-like odors or staining.		

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.

PiD = Photoionization detector.

* = Sample submitted for laboratory analysis.

▽ Water level at time of drilling.

SLR GENERAL DWSI.GPJ GMT US GDT 7/13/10

(Continued Next Page)




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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
55.0								GRAVELLY SILT, brown, some fine- to coarse gravel and cobbles, trace clay, hard, moist, no hydrocarbon-like odors or staining. (continued)		 ← HYDRATED BENTONITE CHIPS
	X	SS	MW2-55.5*	50	80/10"	ML			0	
							56.3		234.3	

Boring completed at 56.3 feet.

WELL COMPLETION DETAILS

0.0 to 37.9 feet: Flush-threaded, 2.0-inch-diameter PVC blank riser pipe
37.9 to 52.5 feet: Flush-threaded, 2.0-inch-diameter 0.010"-machine slotted PVC well screen
52.5 to 52.7 feet: Flush-threaded, 2.0-inch-diameter PVC end cap

0.0 to 2.0 feet: Concrete surface seal
2.0 to 36.5 feet: Hydrated medium bentonite chips
36.5 to 53.0 feet: Carmeuse Industrial Sands 10x20 Colorado silica sand pack
53.0 to 56.3 feet: Hydrated medium bentonite chips

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
PID = Photoionization detector.
* = Sample submitted for laboratory analysis.

▽ Water level at time of drilling.



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WELL NUMBER MW-3

PAGE 1 OF 4

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 6/9/10 COMPLETED 6/10/10 GROUND ELEVATION 286.23 ft HOLE SIZE 8-inch-diameter
 DRILLING CONTRACTOR Tacoma Pump & Drilling GROUND WATER LEVELS:
 DRILLING METHOD Air Rotary ∇ AT TIME OF DRILLING 33.0 ft / Elev 253.2 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0										
2.5						SP		GRAVELLY SAND, brown, fine-grained, little fine to medium gravel and cobbles, damp, no hydrocarbon-like odors or staining.		CONCRETE SURFACE SEAL
5.0						ML		SANDY SILT, brownish gray, little very fine-grained sand, few fine to medium gravel, moist to very moist, no hydrocarbon-like odors or staining.	0	HYDRATED BENTONITE CHIPS
7.5						SP		SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining.	0	BLANK PVC RISER
10.0										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL ONVSLGPJ GINT US GDT 7/13/10

(Continued Next Page)




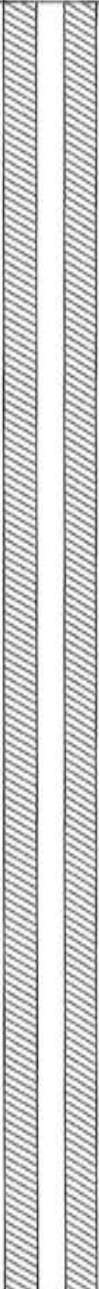
22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
12.5								SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining. (continued)	0	
15.0										
17.5										
20.0					SP					
22.5										
25.0								0		

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL DWS\SLR\GINT US\GDT 7/13/10



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 Bothell, Washington 98021
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 SLR International Corp Fax: 425.402.8488

WELL NUMBER MW-3

PAGE 3 OF 4

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
27.5						SP		SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining. (continued)		
30.0		SS	MW3-30.5**	60	80/11"	ML		SILT, light brown, hard, moist, no hydrocarbon-like odors or staining.	1.2	
32.5										
35.0		SS		100	100	SP		SAND AND GRAVEL, brown, very fine- to fine-grained sand, fine to medium gravel, some cobbles, very dense, wet, no hydrocarbon-like odors or staining.	1.0	
37.5										
40.0										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

▽ Water level at time of drilling.

SLR GENERAL C:\MSI\GPJ_GINT US.GDT 7/13/10

(Continued Next Page)



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
40.0										
		SS		100	77	SP		40.5 - 245.7 SILT, brown, hard, very moist to moist, slight hydrocarbon-like odor.	6.4	<p>PVC END CAP</p> <p>HYDRATED BENTONITE CHIPS</p>
42.5						ML				
45.0		SS	MW3-45.5**	70	100/11"				3.4	
								46.4	239.8	

Boring completed at 46.4 feet.

WELL COMPLETION DETAILS

- 0.0 to 32.0 feet: Flush-threaded, 2.0-inch-diameter PVC blank riser pipe
- 32.0 to 41.6 feet: Flush-threaded, 2.0-inch-diameter 0.010"-machine slotted PVC well screen
- 41.6 to 41.9 feet: Flush-threaded, 2.0-inch-diameter PVC end cap
- 0.0 to 2.0 feet: Concrete surface seal
- 2.0 to 30.0 feet: Hydrated medium bentonite chips
- 30.0 to 42.0 feet: Carmeuse Industrial Sands 10x20 Colorado silica sand pack
- 42.0 to 46.4 feet: Hydrated medium bentonite chips

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photolization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.



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 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

WELL NUMBER MW-4

PAGE 1 OF 5

CLIENT Olympic Water and Sewer, Inc. PROJECT NAME Olympic Water and Sewer, Inc. Property
 PROJECT NUMBER 101.00433.00001 PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
 DATE STARTED 6/10/10 COMPLETED 6/11/10 GROUND ELEVATION 292.07 ft HOLE SIZE 8-inch-diameter
 DRILLING CONTRACTOR Tacoma Pump & Drilling GROUND WATER LEVELS:
 DRILLING METHOD Air Rotary ∇ AT TIME OF DRILLING 27.0 ft / Elev 265.1 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0										
							0.3	ASPHALT.	291.8	
						SP	SAND, brown, fine-grained, few fine gravel, damp, no hydrocarbon-like odors or staining.			CONCRETE SURFACE SEAL
2.5										
							4.0	GRAVELLY SAND, brown, fine-grained, some fine to medium gravel and cobbles, trace fines, damp, no hydrocarbon-like odors or staining.	288.1	
5.0									0	HYDRATED BENTONITE CHIPS
7.5						SP				
10.0									0	BLANK PVC RISER

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL CIVIL/GPJ GINT US/GDT 7/13/10

(Continued Next Page)



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM		
12.5							SP	GRAVELLY SAND, brown, fine-grained, some fine to medium gravel and cobbles, trace fines, damp, no hydrocarbon-like odors or staining. (continued)	0			
15.0												
17.5												
20.0												
22.5												
25.0								0				

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL DIVISION GINT US GDT 7/13/10

(Continued Next Page)



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
27.5						SP		27.0 ▽ SILTY SAND, grayish brown, fine-grained, little silt, trace fine gravel, wet, no hydrocarbon-like odors or staining.	265.1	
30.0	SS		MW4-31**	70	97/9"	SM			0	10x20 SILICA SAND PACK
32.5										0.010"-SLOTTE PVC SCREEN
35.0	SS			100	50/3"	ML		33.0 SILT, brown, few fine to medium gravel, hard, damp, no hydrocarbon-like odors or staining.	259.1	
37.5						ML		37.5 GRAVELLY SILT, gray, some fine to medium gravel & cobbles, hard, very moist, no hydrocarbon-like odors or staining.	254.6	
40.0										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

▽ Water level at time of drilling.

SLR GENERAL DWSI.GPJ GINT US.GDT 7/13/10

(Continued Next Page)



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CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
40.0	X	SS		100	100/7"			GRAVELLY SILT, gray, some fine to medium gravel & cobbles, hard, very moist, no hydrocarbon-like odors or staining. (continued)	0	
42.5						ML		@ 42.0 feet: Becomes moist.		
45.0	X	SS		100	100/6"				0	PVC END CAP
47.5								SAND AND GRAVEL, grayish brown, fine- to medium-grained sand, fine to coarse gravel and cobbles, very dense, very moist to wet, no hydrocarbon-like odors or staining.	245.1	
50.0	X	SS		70	50/3"	SP/GV			0	HYDRATED BENTONITE CHIPS
52.5										

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

∇ Water level at time of drilling.

SLR GENERAL OWSI:GPJ GINT US GDT 7/13/10



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 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

CLIENT Olympic Water and Sewer, Inc.

PROJECT NAME Olympic Water and Sewer, Inc. Property

PROJECT NUMBER 101.00433.00001

PROJECT LOCATION 701 Walker Way, Port Ludlow, WA

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
55.0		SS	MW4-55*	70	50/6"	ML		GRAVELLY SILT, gray, little fine to coarse gravel, hard, damp, no hydrocarbon-like odors or staining.	0	
						SP/GW			237.6	
									236.6	

Boring completed at 55.5 feet.

WELL COMPLETION DETAILS

0.0 to 25.0 feet: Flush-threaded, 2.0-inch-diameter PVC blank riser pipe
 25.0 to 44.6 feet: Flush-threaded, 2.0-inch-diameter 0.010"-machine slotted PVC well screen
 44.6 to 44.9 feet: Flush-threaded, 2.0-inch-diameter PVC end cap

0.0 to 2.0 feet: Concrete surface seal
 2.0 to 22.0 feet: Hydrated medium bentonite chips
 22.0 to 46.0 feet: Carmeuse Industrial Sands 10x20 Colorado silica sand pack
 46.0 to 55.5 feet: Hydrated medium bentonite chips

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter split-spoon sampler driven by a 300 lb. wireline hammer.
 PID = Photoionization detector.
 * = Sample submitted for laboratory analysis.

Water level at time of drilling.

SLR GENERAL C:\MSL\GPJ\GINT US.GDT 7/13/10

APPENDIX C
LABORATORY REPORTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

April 28, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

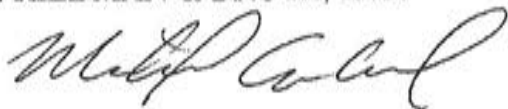
Dear Mr. Staton:

Included are the results from the testing of material submitted on April 15, 2010 from the Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0428R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
004160-01	MW1-24.5-25
004160-02	MW1-35-35.5

Sample MW1-24.5-25 was sent to Fremont Analytical for VPH analysis. The report generated by AR will be forwarded to your office upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10

Date Received: 04/15/10

Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

Date Extracted: 04/20/10

Date Analyzed: 04/20/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
MW1-24.5-25 004160-01 1/10	140	ip
Method Blank 00-0572 MB	<2	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW1-24.5-25	Client:	SLR International Corp.
Date Received:	04/15/10	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/21/10	Lab ID:	004160-01
Date Analyzed:	04/22/10	Data File:	004160-01.019
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Lead	1.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	NA	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/21/10	Lab ID:	I0-200 mb
Date Analyzed:	04/22/10	Data File:	I0-200 mb.017
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Holmium	98	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Lead	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID: MW1-24.5-25
Date Received: 04/15/10
Date Extracted: 04/21/10
Date Analyzed: 04/21/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: 101.00433.00001, F&BI 004160
Lab ID: 004160-01
Data File: 042116.D
Instrument: GCMS5
Operator: MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	52	50	150
Toluene-d8	52	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
1,2-Dibromoethane (EDB)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/21/10	Lab ID:	00552 mb
Date Analyzed:	04/21/10	Data File:	042114.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	122	50	150

Compounds:	Concentration mg/kg (ppm)
1,2-Dibromoethane (EDB)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW1-24.5-25	Client:	SLR International Corp.
Date Received:	04/15/10	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/19/10	Lab ID:	004160-01
Date Analyzed:	04/21/10	Data File:	042107.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Hexane	0.96
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dibromoethane (EDB)	<0.05
1,2-Dichloroethane (EDC)	<0.05
Benzene	0.49
Toluene	5.7
Ethylbenzene	1.2
m,p-Xylene	4.8
o-Xylene	1.9
Naphthalene	0.58

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	101.00433.00001, F&BI 004160
Date Extracted:	04/19/10	Lab ID:	00544 mb
Date Analyzed:	04/19/10	Data File:	041905.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	62	142
Toluene-d8	88	55	145
4-Bromofluorobenzene	93	65	139

Compounds:	Concentration mg/kg (ppm)
Hexane	<0.25
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dibromoethane (EDB)	<0.05
1,2-Dichloroethane (EDC)	<0.05
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10

Date Received: 04/15/10

Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 004141-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	95	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10

Date Received: 04/15/10

Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 004199-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/kg (ppm)	20	9.43	100 b	94 b	65-126	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/kg (ppm)	20	95	81-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10

Date Received: 04/15/10

Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
1,2-Dibromoethane (EDB)	mg/kg (ppm)	0.05	92	92	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/28/10

Date Received: 04/15/10

Project: Olympic Water and Sewer, Inc. 101.00433.00001, F&BI 004160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 004182-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Hexane	mg/kg (ppm)	2.5	<0.25	99	10-137
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	127	36-145
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	144	28-154
Benzene	mg/kg (ppm)	2.5	<0.03	93	43-130
Toluene	mg/kg (ppm)	2.5	<0.05	92	36-143
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	106	41-134
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	105	39-141
m,p-Xylene	mg/kg (ppm)	5	<0.1	101	37-143
o-Xylene	mg/kg (ppm)	2.5	<0.05	102	47-124
Naphthalene	mg/kg (ppm)	2.5	<0.05	121	32-134

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Hexane	mg/kg (ppm)	2.5	90	84	43-142	7
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	111	114	63-121	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	108	110	74-122	2
Benzene	mg/kg (ppm)	2.5	92	89	72-121	3
Toluene	mg/kg (ppm)	2.5	94	90	66-126	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	101	103	74-132	2
Ethylbenzene	mg/kg (ppm)	2.5	99	96	64-123	3
m,p-Xylene	mg/kg (ppm)	5	96	93	78-122	3
o-Xylene	mg/kg (ppm)	2.5	97	94	77-124	3
Naphthalene	mg/kg (ppm)	2.5	114	116	60-125	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 - More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.


ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.





004160 ME 04-15-10 VSI/cpl

Send Report To MIKE STATION
 Company SLR INTERNATIONAL CORP
 Address 22118 20TH AVE SE G902
 City, State, ZIP BOTHELL WA 98021
 Phone # (425) 402-8800 Fax # (425) 402-8888

SAMPLERS (signature) 
 PROJECT NAME/NO. Olympic Water & Sewer, Inc 101 00433.0001
 PO # 101 00433.0001
 REMARKS PLEASE HOLD SAMPLES FOR POSSIBLE ANALYSIS
anal. reqd per MS 4/19/10 MS

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED							Notes	
						TPH-Diesel	TPT-Gasoline	RTX by 80213	VOCs by 8260	SVOCs by 8270	HTS	BTX, naphthalene, BzA		Mercury
MW1-24.5-25	A-F	4/14/10	1155	SOIL	6	X	X				X	X	X	X-per MS
MW1-35-35.5	A-F		1230	↓	↓	X	X						X	4/19/10 MS * cancelled per MS 4/20/10 MS V-per MS 4/23/10 MS

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	CHRIS LEE	SLR	4-15-10	1417
	Kortland Orr	FCBI	4-15-10	1417
	Kortland Orr	FCBI	4-15-10	1522
	Phu. Pham	FCBI	4/15/10	1522

Friedman & Straya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 283-8282
 Fax (206) 283-5044
 FORMS-COC.DOC



Fremont
Analytical

2930 Westlake Ave N Suite 100
Seattle, WA 98109
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman and Bruya, Inc.
Attn: Michael Erdahl
3012 16th Ave W.
Seattle, WA 98119

RE: 004160
Fremont Project No: CHM100426-4
Friedman and Bruya Project No: A-390

May 3rd, 2010

Michael:

Enclosed are the analytical results for the **004160** soil sample (Sample ID: MW1-24.5-25) submitted to Fremont Analytical on April 26th, 2010.

Examination of this sample was conducted for the presence of the following:

- ***Volatile Petroleum Hydrocarbons (VPH) in Soil by NWVPH***

This application was performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied.

Laboratory Notations: The *relative percent difference (RPD%)* between the sample and sample duplicate exceeded control limits for the following: *Naphthalene* and *C12-C13 (PID) Aromatics*. All other RPD% values were in control.

Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

Michael Dee
Sr. Chemist / Principal
mikedee@fremontanalytical.com



Analysis of Volatile Petroleum Hydrocarbons in Soil by NWVPH

Project: 004160
Client: Friedman and Bruya, Inc.
Client Project #: A-390
Lab Project #: CHM100426-4

NWVPH (mg/kg)	MRL	Method Blank	LCS	LCD	Duplicate		RPD %
					MW1-24.5-25	MW1-24.5-25	
Date Preserved					4/26/10	4/26/10	
Date Analyzed		5/2/10	5/2/10	5/2/10	5/2/10	5/2/10	
Matrix					Soil	Soil	

Targeted Analytes

methyl <i>tert</i> -butyl ether (MTBE)	0.05	nd	98%	101%	nd	nd	
Benzene	0.05	nd	101%	104%	0.34	0.38	10%
Toluene	0.05	nd	101%	103%	1.4	1.6	10%
Ethylbenzene	0.05	nd	105%	103%	0.12	0.12	4%
m,p-Xylenes	0.05	nd	102%	107%	0.50	0.52	4%
o-Xylenes	0.05	nd	101%	104%	0.24	0.22	9%
Naphthalene	0.05	nd	96%	119%	0.34	0.14	86%

Hydrocarbon Parameters

C5-C6 (FID) <i>Aliphatics</i> *	0.05	nd			nd	nd	
C6-C8 (FID) <i>Aliphatics</i> *	0.05	nd			2.4	2.6	8%
C8-C10 (FID) <i>Aliphatics</i> *	0.05	nd			3.1	3.3	6%
C10-C12 (FID) <i>Aliphatics</i> *	0.05	nd			1.9	1.7	11%
C8-C10 (PID) <i>Aromatics</i>	0.05	nd			1.4	1.4	0%
C10-C12 (PID) <i>Aromatics</i>	0.05	nd			0.60	0.60	0%
C12-C13 (PID) <i>Aromatics</i>	0.05	nd			0.43	0.85	66%

Surrogate Recovery

Trifluorotoluene		101%	114%	116%	110%	116%	
Bromofluorobenzene		95%	103%	101%	95%	94%	

"nd" indicates not detected at listed reporting limits
 "int" indicates that interference prevents determination
 "*" Excludes MTBE and BTEX Compounds
 "J" indicates estimated value
 "MRL" indicates Method Reporting Limit
 "LCS" indicates Laboratory Control Sample
 "RPD" indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%
Acceptable Recovery Limits:
 Surrogate = 65% to 135%
 LCS, LCSD = 65% to 135%
 Surrogate Concentration = 0.25 mg/kg
 Spike Concentration = 5.0 mg/kg

CHM10042 -4

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

SUBCONTRACTOR 4#to Fent PO # A-390

PROJECT NAME/NO. 604160

REMARKS Please Email Results
merhab@friedmanandbruya.com

Send Report To Michael Erelahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED					Notes	
						Oil and Grease	EPH	VPH	Nitrate	Sulfate		Alkalinity
<u>M51-24-S-25</u>		<u>4/4/10</u>	<u>11:55</u>	<u>S</u>	<u>2</u>		<u>✓</u>					

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Pk. (206) 285-8282
 Fax (206) 283-5044

Relinquished by: Michael Erelahl SIGNATURE
 RECEIVED BY: Troy Lehr SIGNATURE

Relinquished by: _____
 RECEIVED BY: _____

Relinquished by: _____
 RECEIVED BY: _____

Relinquished by: _____
 RECEIVED BY: _____

COMPANY: Friedman & Bruya

PRINT NAME: F.A.

DATE: 4/20/10 TIME: 10:25AM

DATE: 4/20/10 TIME: 12:18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 28, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 9, 2010 from the Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 9, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006107-01	MW1-40'
006107-02	MW1-55'
006107-03	MW1-60'

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10

Date Received: 06/09/10

Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107

Date Extracted: 06/09/10

Date Analyzed: 06/09/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
MW1-40' 006107-01	<2	96
MW1-55' 006107-02	<2	84
Method Blank 00-0848 MB2	<2	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW1-40'
Date Received: 06/09/10
Date Extracted: 06/10/10
Date Analyzed: 06/11/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc. F&BI 006107
Lab ID: 006107-01
Data File: 061029.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	117	42	152
Toluene-d8	123	36	149
4-Bromofluorobenzene	130	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW1-55'	Client:	SLR International Corp.
Date Received:	06/09/10	Project:	Olympic Water & Sewer, Inc. F&BI 006107
Date Extracted:	06/10/10	Lab ID:	006107-02
Date Analyzed:	06/11/10	Data File:	061030.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	42	152
Toluene-d8	120	36	149
4-Bromofluorobenzene	129	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank
Date Received: NA
Date Extracted: 06/10/10
Date Analyzed: 06/10/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc. F&BI 006107
Lab ID: 00731 mb
Data File: 061019.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	42	152
Toluene-d8	112	36	149
4-Bromofluorobenzene	122	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10

Date Received: 06/09/10

Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006092-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	10	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/10

Date Received: 06/09/10

Project: Olympic Water & Sewer, Inc. PO101.00433.00001, F&BI 006107

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006092-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	mg/kg (ppm)	2.5	<0.03	84	58-129
Toluene	mg/kg (ppm)	2.5	<0.05	86	56-136
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	84	62-129
m,p-Xylene	mg/kg (ppm)	5	<0.1	85	60-132
o-Xylene	mg/kg (ppm)	2.5	<0.05	83	56-139
Naphthalene	mg/kg (ppm)	2.5	<0.05	71	35-174

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	mg/kg (ppm)	2.5	97	99	73-115	2
Toluene	mg/kg (ppm)	2.5	99	99	75-117	0
Ethylbenzene	mg/kg (ppm)	2.5	97	99	74-122	2
m,p-Xylene	mg/kg (ppm)	5	100	102	78-114	2
o-Xylene	mg/kg (ppm)	2.5	97	98	81-116	1
Naphthalene	mg/kg (ppm)	2.5	97	98	70-122	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- AI - More than one compound of similar molecule structure was identified with equal probability.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The result is below normal reporting limits. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

006107

SAMPLE CHAIN OF CUSTODY ME 06/09/10

VSJ / CI 21

Send Report To Mike Staton

Company SLR

Address 22118 20th Ave SE G-202

City, State, ZIP Bell WA 98021

Phone # (425) 400-8800 Fax # (425) 402-8458

SAMPLERS (signature)

PO #

PROJECT NAME/NO
Olympic Water & Sewer, Inc
101 00433 00001

REMARKS Please hold all samples for possible follow up analysis.

Page #

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021F	VOCs by 8260	SVOCs by 8270	
MS MWI-40'	01 AE	MS 6/9/10	0715	SOIL	5	X	X	X	X	X	✓-per MS
MWI-55'	02 AE	↓	1010	↓	↓	X	X	X	X	X	6/22/10
MWI 60'	03 AE	↓	1120	↓	↓						MS

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
[Signature]	CHRIS LEE	SLR	6/9/10	
[Signature]	LAREN RUTLAND	CHAMPIONS	6/9/10	
[Signature]	Phan Phan	FEBT	6/9/10	1245

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 29, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 10, 2010 from the Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0629R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006126-01	MW2-40'
006126-02	MW2-55.5'
006126-03	MW3-30.5'

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/10/10

Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126

Date Extracted: 06/11/10

Date Analyzed: 06/11/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW2-40' 006126-01	2.9	81
MW2-55.5' 006126-02	<2	82
MW3-30.5' 006126-03	<2	74
Method Blank 00-0851 MB	<2	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW2-40'
Date Received: 06/10/10
Date Extracted: 06/15/10
Date Analyzed: 06/15/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water and Sewer
Lab ID: 006126-01
Data File: 061510.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	42	152
Toluene-d8	108	36	149
4-Bromofluorobenzene	114	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.21
Toluene	0.062
Ethylbenzene	0.11
m,p-Xylene	<0.1
o-Xylene	0.066
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW2-55.5'	Client:	SLR International Corp.
Date Received:	06/10/10	Project:	Olympic Water and Sewer
Date Extracted:	06/15/10	Lab ID:	006126-02
Date Analyzed:	06/15/10	Data File:	061511.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	42	152
Toluene-d8	117	36	149
4-Bromofluorobenzene	124	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.21
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW3-30.5'
Date Received: 06/10/10
Date Extracted: 06/15/10
Date Analyzed: 06/15/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water and Sewer
Lab ID: 006126-03
Data File: 061512.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	42	152
Toluene-d8	96	36	149
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Olympic Water and Sewer
Date Extracted:	06/15/10	Lab ID:	00734 mb
Date Analyzed:	06/15/10	Data File:	061509.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	42	152
Toluene-d8	114	36	149
4-Bromofluorobenzene	116	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/10/10

Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006126-03 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	118	124	71-131	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/10/10

Project: Olympic Water and Sewer, Inc (OWSI) 101.00433.00001, F&BI 006126

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006122-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	mg/kg (ppm)	2.5	<0.03	72	58-129
Toluene	mg/kg (ppm)	2.5	<0.05	75	56-136
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	77	62-129
m,p-Xylene	mg/kg (ppm)	5	<0.1	79	60-132
o-Xylene	mg/kg (ppm)	2.5	<0.05	78	56-139
Naphthalene	mg/kg (ppm)	2.5	<0.05	79	35-174

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	mg/kg (ppm)	2.5	100	105	73-115	5
Toluene	mg/kg (ppm)	2.5	101	105	75-117	4
Ethylbenzene	mg/kg (ppm)	2.5	98	102	74-122	4
m,p-Xylene	mg/kg (ppm)	5	102	107	78-114	5
o-Xylene	mg/kg (ppm)	2.5	99	102	81-116	3
Naphthalene	mg/kg (ppm)	2.5	102	104	70-122	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 - More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

006126 MIKE STATION ME 06/10/10 VS1/GI2

Send Report To MIKE STATION
 Company SLR
 Address 22118 20TH AVE SE, G-202
 City, State, ZIP BATTEL, WA 98021
 Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS (signature) _____
 PROJECT NAME/NO. Olympic Sewer & Sewer, Inc (OSI)
101.00433 00001
 REMARKS
Please hold samples for possible follow-up analyses.

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes received at _____ °C
						TPH-Diesel	TPH-Gasoline	BTEX by 8081B	VOCs by 8260	SVOCs by 8270	
MW2-40'	01 AE	6/9/10	0810	SOIL	5	X	X	X	X	X	✓-PCMS 6/22/10 Notes
MW2-55.5'	02 AE	↓	1045	↓	5	X	X	X	X	X	
MW3-30.5	03 AE	↓	1830	↓	5	X	X	X	X	X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	CHRIS LEE	SLR	6/10/10	
Received by: _____	J. Williams	Champion TX	6/10/10	12:26
Relinquished by: _____	Nhan Phan	F&B	6/10/10	13:20
Received by: _____				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 29, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

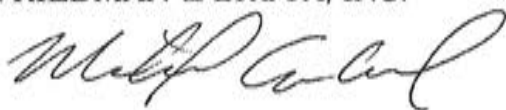
Dear Mr. Staton:

Included are the results from the testing of material submitted on June 11, 2010 from the Olympic Water and Sewer 101.00433.00001, F&BI 006145 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0629R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 11, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water and Sewer 101.00433.00001, F&BI 006145 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006145-01	MW3-45.5
006145-02	MW4-31
006145-03	MW4-35

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/11/10

Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

Date Extracted: 06/15/10 and 06/17/10

Date Analyzed: 06/15/10 and 06/17/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
MW3-45.5 006145-01	<2	77
MW4-31 006145-02	<2	61
Method Blank 00-0852 MB	<2	90
Method Blank 00-0856 MB	<2	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW3-45.5
Date Received: 06/11/10
Date Extracted: 06/15/10
Date Analyzed: 06/15/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water and Sewer 101.00433.00001
Lab ID: 006145-01
Data File: 061513.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	42	152
Toluene-d8	95	36	149
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.036
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW4-31
Date Received: 06/11/10
Date Extracted: 06/17/10
Date Analyzed: 06/17/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: Olympic Water and Sewer 101.00433.00001
Lab ID: 006145-02
Data File: 061717.D
Instrument: GCMS4
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	62	142
Toluene-d8	84	55	145
4-Bromofluorobenzene	88	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Olympic Water and Sewer 101.00433.00001
Date Extracted:	06/15/10	Lab ID:	00734 mb
Date Analyzed:	06/15/10	Data File:	061509.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	42	152
Toluene-d8	114	36	149
4-Bromofluorobenzene	116	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Olympic Water and Sewer 101.00433.00001
Date Extracted:	06/17/10	Lab ID:	00899 mb
Date Analyzed:	06/17/10	Data File:	061711.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/11/10

Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006145-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	10	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/11/10

Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006145-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	10	110	115	61-153	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/11/10

Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006122-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Benzene	mg/kg (ppm)	2.5	<0.03	72	58-129
Toluene	mg/kg (ppm)	2.5	<0.05	75	56-136
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	77	62-129
m,p-Xylene	mg/kg (ppm)	5	<0.1	79	60-132
o-Xylene	mg/kg (ppm)	2.5	<0.05	78	56-139
Naphthalene	mg/kg (ppm)	2.5	<0.05	79	35-174

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	mg/kg (ppm)	2.5	100	105	73-115	5
Toluene	mg/kg (ppm)	2.5	101	105	75-117	4
Ethylbenzene	mg/kg (ppm)	2.5	98	102	74-122	4
m,p-Xylene	mg/kg (ppm)	5	102	107	78-114	5
o-Xylene	mg/kg (ppm)	2.5	99	102	81-116	3
Naphthalene	mg/kg (ppm)	2.5	102	104	70-122	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/10

Date Received: 06/11/10

Project: Olympic Water and Sewer 101.00433.00001, F&BI 006145

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006192-18 FS and 1/10 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.03	<0.03	nm
Toluene	mg/kg (ppm)	0.83	0.82	1
Ethylbenzene	mg/kg (ppm)	4.5	4.5	0
m,p-Xylene	mg/kg (ppm)	28	31	10
o-Xylene	mg/kg (ppm)	7.4	7.2	3
Naphthalene	mg/kg (ppm)	2.3	2.2	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	93	93	72-121	0
Toluene	mg/kg (ppm)	2.5	96	94	66-126	2
Ethylbenzene	mg/kg (ppm)	2.5	99	97	64-123	2
m,p-Xylene	mg/kg (ppm)	5	101	100	78-122	1
o-Xylene	mg/kg (ppm)	2.5	100	98	77-124	2
Naphthalene	mg/kg (ppm)	2.5	103	99	60-125	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 - More than one compound of similar molecule structure was identified with equal probability.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The result is below normal reporting limits. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

000145 VSI 1, 2 ME 06/11/10

SAMPLE CHAIN OF CUSTODY

Page # _____ of _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) _____

PROJECT NAME/NO. _____
 PO# _____
 Olympia Water & Sewer, Inc (OWSI)
 101.00433.00001

REMARKS
 Please hold samples for possible follow-up

Send Report To Mike Staton

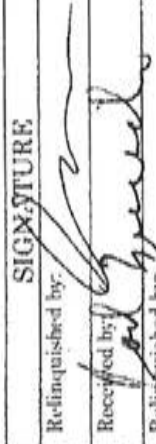

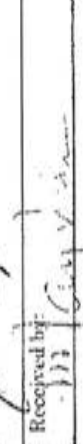
Company SLR International Corp

Address 22118 20th Ave SE, G-202

City, State, ZIP Bothell, WA 98021

Phone # (206) 402-5800 Fax # (206) 402-5458

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8015	VOCs by 8260	SVOCs by 8270		HFS	
MW3-45.5	01 AE	6/10/10	0930	Soil	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MW4-31	02 AE	↓	1720	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold 6/16/10 MK	
MW4-35	03 AE	↓	1755	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	CHARLES LEE	SLR	6/10/10	
	Joel Zurich	Champion		12:48
	Phan	F&BT	6/11/10	1400

Friedman & Bruva, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 30, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

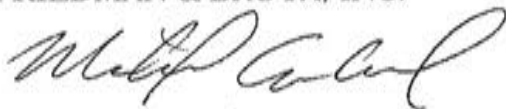
Dear Mr. Staton:

Included are the soil results from the testing of material submitted on June 15, 2010 from the OWSI, 101.00433.00001, F&BI 006178 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
006178-01

SLR International Corp.
MW4-55

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10
Date Received: 06/15/10
Project: OWSI, 101.00433.00001, F&BI 006178
Date Extracted: 06/16/10
Date Analyzed: 06/16/10 and 06/17/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
MW4-55 006178-01	<2	87
Method Blank 00-0852 MB2	<2	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW4-55
Date Received: 06/15/10
Date Extracted: 06/17/10
Date Analyzed: 06/17/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-01
Data File: 061705.D
Instrument: GCMS4
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	62	142
Toluene-d8	106	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/17/10	Lab ID:	00736 mb2
Date Analyzed:	06/17/10	Data File:	061704.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006145-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	10	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	93	95	72-121	2
Toluene	mg/kg (ppm)	2.5	96	91	66-126	5
Ethylbenzene	mg/kg (ppm)	2.5	99	100	64-123	1
m,p-Xylene	mg/kg (ppm)	5	102	102	78-122	0
o-Xylene	mg/kg (ppm)	2.5	100	100	77-124	0
Naphthalene	mg/kg (ppm)	2.5	99	100	60-125	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 - More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

006178

SAMPLE CHAIN OF CUSTODY ME 06-15-10 VS 1/13/ AZB

Page # 1 of 1

Send Report To MIKE STATION

Company SLR

Address 22118 20th Ave SE, G-202

City, State, ZIP BOTTLE, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8458

SAMPLERS (signature)

PROJECT NAME/NO.

Olympic Water & Sewer, Inc (OWSS)

101.00433.00001

PO #

101.00433.00001

REMARKS Sample MW4-55 was frozen 5 hours after collection

TURNAROUND TIME

X Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

X Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED								Notes				
						TPH-Diesel	TPH-Gasoline	BTEX by 8081B	VOCs by 8260	SVOCs by 8270	HRS	GREX, ETC, MTBE, Xylenes by 8260	EDB by 8011		total & dissolved Lead by 2008			
MW4-55	01 AE	6/11/10	1010	SOIL	5	X	X	X										
MW4-0610	02 A-K	6/14/10	1150	WATER	11	X	X											
MW3-0610	03 AK		1259			X	X											
MW2-0610	04 AK		1355			X	X											
MW1-0610	05 AK		1451			X	X											

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS \ C 70C.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

CHRIS LEE

COMPANY

SLR

TIME

6/15/10 14:15

DATE

2 °C

Samples received at

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 30, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE. G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the water results from the testing of material submitted on June 15, 2010 from the OWSI, 101.00433.00001, F&BI 006178 project. There are 23 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 15, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. OWSI, 101.00433.00001, F&BI 006178 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
006178-02	MW4-0610
006178-03	MW3-0610
006178-04	MW2-0610
006178-05	MW1-0610

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10
Date Received: 06/15/10
Project: OWSI, 101.00433.00001, F&BI 006178
Date Extracted: 06/16/10
Date Analyzed: 06/16/10

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW4-0610 006178-02	<100	112
MW3-0610 006178-03	<100	112
MW2-0610 006178-04	8,400	ip
MW1-0610 006178-05	990	123
Method Blank 00-0854 MB2	<100	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: MW4-0610
Date Received: 06/15/10
Date Extracted: 06/23/10
Date Analyzed: 06/23/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-02
Data File: 006178-02.063
Instrument: ICPMS1
Operator: AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125

Analyte:	Concentration ug/L (ppb)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: MW3-0610
Date Received: 06/15/10
Date Extracted: 06/23/10
Date Analyzed: 06/23/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-03
Data File: 006178-03.066
Instrument: ICPMS1
Operator: AP

Internal Standard:
Holmium

% Recovery:
92

Lower
Limit:
60

Upper
Limit:
125

Analyte:

Concentration
ug/L (ppb)

Lead

<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: MW2-0610
Date Received: 06/15/10
Date Extracted: 06/23/10
Date Analyzed: 06/23/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-04
Data File: 006178-04.067
Instrument: ICPMS1
Operator: AP

Internal Standard:
Holmium

% Recovery:
90

Lower
Limit:
60

Upper
Limit:
125

Analyte:

Concentration
ug/L (ppb)

Lead

<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: MW1-0610
Date Received: 06/15/10
Date Extracted: 06/23/10
Date Analyzed: 06/23/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-05
Data File: 006178-05.068
Instrument: ICPMS1
Operator: AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	NA	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/23/10	Lab ID:	I0-319 mb
Date Analyzed:	06/23/10	Data File:	I0-319 mb.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW4-0610
 Date Received: 06/15/10
 Date Extracted: 06/18/10
 Date Analyzed: 06/19/10
 Matrix: Water
 Units: ug/L (ppb)

Client: SLR International Corp.
 Project: OWSI, 101.00433.00001, F&BI 006178
 Lab ID: 006178-02
 Data File: 061832.D
 Instrument: GCMS5
 Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	100	65	127
4-Bromofluorobenzene	108	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW3-0610
Date Received: 06/15/10
Date Extracted: 06/18/10
Date Analyzed: 06/19/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-03
Data File: 061833.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	63	127
Toluene-d8	98	65	127
4-Bromofluorobenzene	106	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	0.36
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW2-0610
 Date Received: 06/15/10
 Date Extracted: 06/18/10
 Date Analyzed: 06/19/10
 Matrix: Water
 Units: ug/L (ppb)

Client: SLR International Corp.
 Project: OWSI, 101.00433.00001, F&BI 006178
 Lab ID: 006178-04
 Data File: 061834.D
 Instrument: GCMS5
 Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	63	127
Toluene-d8	98	65	127
4-Bromofluorobenzene	99	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	820 ve
Toluene	510 ve
Ethylbenzene	430 ve
m,p-Xylene	450 ve
o-Xylene	380 ve
Naphthalene	100 ca

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW2-0610
Date Received: 06/15/10
Date Extracted: 06/22/10
Date Analyzed: 06/22/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-04 1/100
Data File: 062210.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	108	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<100
1,2-Dichloroethane (EDC)	<100
1,2-Dibromoethane (EDB)	<100
Benzene	2,100
Toluene	620
Ethylbenzene	960
m,p-Xylene	400
o-Xylene	250
Naphthalene	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW1-0610
Date Received: 06/15/10
Date Extracted: 06/21/10
Date Analyzed: 06/21/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: OWSI, 101.00433.00001, F&BI 006178
Lab ID: 006178-05
Data File: 062109.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	101	65	127
4-Bromofluorobenzene	102	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	110
Toluene	45
Ethylbenzene	1.1
m,p-Xylene	56
o-Xylene	130
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/18/10	Lab ID:	00901 mb
Date Analyzed:	06/18/10	Data File:	061819.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	63	127
Toluene-d8	101	65	127
4-Bromofluorobenzene	107	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/21/10	Lab ID:	00904 mb
Date Analyzed:	06/21/10	Data File:	062107.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	63	127
Toluene-d8	101	65	127
4-Bromofluorobenzene	108	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/22/10	Lab ID:	00905 mb
Date Analyzed:	06/22/10	Data File:	062207.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	109	69	127

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	<1
1,2-Dichloroethane (EDC)	<1
1,2-Dibromoethane (EDB)	<1
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10
Date Received: 06/15/10
Project: OWSI, 101.00433.00001, F&BI 006178
Date Extracted: 06/23/10
Date Analyzed: 06/23/10

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR 1,2-DIBROMOETHANE BY EPA METHOD 8011 MODIFIED**

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u>	<u>EDB</u>
Laboratory ID	
MW4-0610 006178-02	<0.01
MW3-0610 006178-03	<0.01
MW2-0610 006178-04	<0.01
MW1-0610 006178-05	<0.01
Method Blank	<0.01

EDB

1,2-Dibromoethane

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 006157-04 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	95	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 006178-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	ug/L (ppb)	10	<1	111	107	76-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	ug/L (ppb)	10	110	67-135

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006214-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	100	56-135
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	68-132
Benzene	ug/L (ppb)	50	<0.35	105	71-120
Toluene	ug/L (ppb)	50	<1	100	68-131
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	100	77-127
Ethylbenzene	ug/L (ppb)	50	<1	103	69-129
m,p-Xylene	ug/L (ppb)	100	<2	105	72-128
o-Xylene	ug/L (ppb)	50	<1	111	67-133
Naphthalene	ug/L (ppb)	50	<1	112	40-166

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	107	105	54-156	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	77-118	2
Benzene	ug/L (ppb)	50	107	106	77-121	1
Toluene	ug/L (ppb)	50	103	101	81-117	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	104	88-122	3
Ethylbenzene	ug/L (ppb)	50	105	103	83-116	2
m,p-Xylene	ug/L (ppb)	100	108	106	84-120	2
o-Xylene	ug/L (ppb)	50	113	112	83-120	1
Naphthalene	ug/L (ppb)	50	122	121	66-135	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 006228-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	96	56-135
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	68-132
Benzene	ug/L (ppb)	50	<0.35	107	71-120
Toluene	ug/L (ppb)	50	<1	102	68-131
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	103	77-127
Ethylbenzene	ug/L (ppb)	50	<1	106	69-129
m,p-Xylene	ug/L (ppb)	100	<2	109	72-128
o-Xylene	ug/L (ppb)	50	<1	113	67-133
Naphthalene	ug/L (ppb)	50	<1	117	40-166

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	111	108	54-156	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	103	100	77-118	3
Benzene	ug/L (ppb)	50	107	104	77-121	3
Toluene	ug/L (ppb)	50	103	100	81-117	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	108	103	88-122	5
Ethylbenzene	ug/L (ppb)	50	104	101	83-116	3
m,p-Xylene	ug/L (ppb)	100	108	104	84-120	4
o-Xylene	ug/L (ppb)	50	114	110	83-120	4
Naphthalene	ug/L (ppb)	50	127	119	66-135	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	104	104	54-156	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	100	77-118	1
Benzene	ug/L (ppb)	50	104	105	77-121	1
Toluene	ug/L (ppb)	50	99	101	81-117	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	103	105	88-122	2
Ethylbenzene	ug/L (ppb)	50	101	103	83-116	2
m,p-Xylene	ug/L (ppb)	100	105	106	84-120	1
o-Xylene	ug/L (ppb)	50	110	112	83-120	2
Naphthalene	ug/L (ppb)	50	117	116	66-135	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/10

Date Received: 06/15/10

Project: OWSI, 101.00433.00001, F&BI 006178

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
1,2-DIBROMOETHANE BY EPA METHOD 8011 MODIFIED**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptanc e Criteria	RPD (Limit 10)
1,2-Dibromoethane	ug/L (ppb)	0.10	96	93	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 - More than one compound of similar molecule structure was identified with equal probability.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The result is below normal reporting limits. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 3, 2010

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on October 21, 2010 from the Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SLR1103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 21, 2010 by Friedman & Bruya, Inc. from the SLR International Corp. Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
010249-01	MW1-1010
010249-02	MW2-1010
010249-03	MW3-1010
010249-04	MW4-1010

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10
Date Received: 10/21/10
Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249
Date Extracted: 10/25/10
Date Analyzed: 10/25/10

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW1-1010 010249-01	1,900	ip
MW2-1010 010249-02	3,900	ip
MW3-1010 010249-03	<100	118
MW4-1010 010249-04	<100	118
Method Blank 00-1728 MB	<100	118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW1-1010
Date Received: 10/21/10
Date Extracted: 10/28/10
Date Analyzed: 10/29/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc
Lab ID: 010249-01 1/10
Data File: 102824.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	63	127
Toluene-d8	97	65	127
4-Bromofluorobenzene	95	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	520
Toluene	140
Ethylbenzene	110
m,p-Xylene	71
o-Xylene	150
Naphthalene	15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW2-1010
Date Received: 10/21/10
Date Extracted: 10/29/10
Date Analyzed: 10/30/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc
Lab ID: 010249-02 1/10
Data File: 102929.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	63	127
Toluene-d8	97	65	127
4-Bromofluorobenzene	96	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	1,300
Toluene	290
Ethylbenzene	430
m,p-Xylene	240
o-Xylene	290
Naphthalene	35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW3-1010
Date Received: 10/21/10
Date Extracted: 10/29/10
Date Analyzed: 10/30/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc
Lab ID: 010249-03
Data File: 102928.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	63	127
Toluene-d8	92	65	127
4-Bromofluorobenzene	92	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW4-1010
Date Received: 10/21/10
Date Extracted: 10/28/10
Date Analyzed: 10/29/10
Matrix: Water
Units: ug/L (ppb)

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc
Lab ID: 010249-04
Data File: 102827.D
Instrument: GCMS5
Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	63	127
Toluene-d8	94	65	127
4-Bromofluorobenzene	94	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Olympic Water & Sewer, Inc
Date Extracted:	10/29/10	Lab ID:	001709 mb
Date Analyzed:	10/30/10	Data File:	102927.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	94	65	127
4-Bromofluorobenzene	95	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Olympic Water & Sewer, Inc
Date Extracted:	10/28/10	Lab ID:	001708 mb
Date Analyzed:	10/28/10	Data File:	102817.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	63	127
Toluene-d8	94	65	127
4-Bromofluorobenzene	94	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10

Date Received: 10/21/10

Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR
TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 010271-16 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	99	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10

Date Received: 10/21/10

Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 010249-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	50	660 ve	0 b	62-144
Toluene	ug/L (ppb)	50	210 ve	91 b	68-131
Ethylbenzene	ug/L (ppb)	50	240 ve	2 b	51-150
m,p-Xylene	ug/L (ppb)	100	190	120 b	72-137
o-Xylene	ug/L (ppb)	50	220 ve	102 b	67-133
Naphthalene	ug/L (ppb)	50	37	97 b	40-166

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	50	107	107	77-121	0
Toluene	ug/L (ppb)	50	108	107	81-113	1
Ethylbenzene	ug/L (ppb)	50	110	108	83-116	2
m,p-Xylene	ug/L (ppb)	100	110	110	84-120	0
o-Xylene	ug/L (ppb)	50	120	120	83-120	0
Naphthalene	ug/L (ppb)	50	114	114	66-135	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/10

Date Received: 10/21/10

Project: Olympic Water & Sewer, Inc. 101.00433.00001, F&BI 010249

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 010275-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	50	<0.35	101	62-144
Toluene	ug/L (ppb)	50	<1	102	68-131
Ethylbenzene	ug/L (ppb)	50	<1	104	51-150
m,p-Xylene	ug/L (ppb)	100	<2	104	72-137
o-Xylene	ug/L (ppb)	50	<1	112	67-133
Naphthalene	ug/L (ppb)	50	<1	111	40-166

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery		Acceptance Criteria	RPD (Limit 20)
			LCS	LCSD		
Benzene	ug/L (ppb)	50	103	106	77-121	3
Toluene	ug/L (ppb)	50	105	109	81-113	4
Ethylbenzene	ug/L (ppb)	50	102	105	83-116	3
m,p-Xylene	ug/L (ppb)	100	105	108	84-120	3
o-Xylene	ug/L (ppb)	50	114	118	83-120	3
Naphthalene	ug/L (ppb)	50	111	115	66-135	4

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 - More than one compound of similar molecule structure was identified with equal probability.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The result is below normal reporting limits. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

010 2149

ME 10-21-10

V4

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) _____

PROJECT NAME/NO. PO #
 Olympic Water & Sewer, Inc. 101.00433.0001

101.00433.0001

REMARKS

Send Report To MIKE STATON

Company SLR INTL CORP

Address 22118 20th Ave SE, G-202

City, State, ZIP BOTHELL WA 98021

Phone # (425) 402-8900 Fax # (425) 402-8488

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED							Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HRS	BTEX & naphthalene by 8260B		
MW1-1010	0101	10/20/10	1511	WATER	6	X	X							
MW2-1010	0201	↓	1616 1549	↓	6	X	X							
MW3-1010	0301	↓	1227	↓	6	X	X							
MW4-1010	0401	↓	1359	↓	6	X	X							
														Samples received at <u>H</u> <u>OC</u>

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	CHRIS LEE	SLR	10/21/10	1:42 pm
Received by: <u>Bill Maguire</u>	Jodi Loggieri	Champion	10-21-10	1:42 pm
Relinquished by: <u>Bill Maguire</u>	Jodi Loggieri	Champion	10-21-10	15:17
Received by: <u>m Maguire</u>	Nhan Phan	F&B	10/21/10	V

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 283-8282
 Fax (206) 283-5044

FORMS\COC\COC.DOC

APPENDIX D
WATER SUPPLY WELL LOGS

Table D-1
Water Well Supply Well Construction Details
Olympic Water and Sewer, Inc. Property
Port Ludlow, Washington

SLR Designated Number	Quarter	Quarter	Section	Township	Range	Well Owner's Name (at time of installation)	Well Use	Total Depth (ft. bgs)	Casing Depth (ft. bgs)	Screen Depth (ft. bgs)	Open (ft. bgs)	Static Water Level (ft. bgs)	Producing Formation
1	NW	SE	8	28N	1E	Blaine Shaffer	Domestic	208	0-203	203-208	NA	108	Sand and Gravel
2	SW	SE	8	28N	1E	Pope & Tailbot Development, Inc.	Domestic	245	0-214; 224-240	214-224; 240-245	-	69.5	Sand and Gravel
3	SE	NE	8	28N	1E	Pope & Tailbot Development, Inc.	Domestic	257	241-257	0-241	-	144.5	Sand and Gravel
4	SE	SW	8	28N	1E	Pope & Tailbot Development, Inc.	Domestic	546	0-315.5; 329.7-	315.5-329.7; 361.3-377.1	-	158.9	Sand and Gravel; Pebble Conglomerate
5	NW	SE	8	28N	1E	Richard Werner	Domestic	157	0-157	None	157	118	Gravel
6	NW	SE	8	28N	1E	Ross Witter	Domestic	176	0-176	None	176	136	Sand and Gravel
7	NW	SE	8	28N	1E	Ross Witter	Domestic	178	0-178	None	178	133	Sand and Gravel
8	NE	SW	8	28N	1E	Ruth Altis	Domestic	211.5	0-211.5	None	211.5	191	Sandy Clay and Gravel
9	NE	SW	8	28N	1E	Chris Baschab	Domestic	276	0-270	270-276	-	226.5	Sand and Gravel
10	NE	SW	8	28N	1E	Frank Woodruff	Domestic	193	0-193	None	193	114	Gravel
11	S 1/2	NE	8	28N	1E	R.T. Moran	Domestic	290	0-285	285-290	-	201	Sand and Gravel
12	NW	SE	8	28N	1E	John Werner	Domestic	205	NA	NA	NA	142.65	NA

Notes:

The well construction details in this table are based on Washington Department of Ecology or Olympic Water & Sewer, Inc. records.

NA= Information not available.



Start Card No. WE03667

UNIQUE WELL I.D. # AGS283

Water Rights Permit No.

File original and first copy with
Department of EcologySecond Copy - Owner's Copy
Third Copy - Driller's Copy**WATER WELL REPORT**

STATE OF WASHINGTON

176868

(1) OWNER: Name: BLAINE SHAFFER

Address: 425 SHINE RD., PORT LUDLOW, WA 98365

(2) LOCATION OF WELL: County: JEFFERSON

NW 1/4 of the SE 1/4, Sec. 8, Twnsp 28 N, R. 1 E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 804 WALKER WAY, PORT LUDLOW, WA 98365

(3) PROPOSED USE: Domestic Test well
 Irrigation Municipal
 Industrial Dewater Other(4) TYPE OF WORK: Owner's number of well(if more than one): 1
 Abandoned New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted(5) DIMENSIONS: Diameter of well: 6 inches
Drilled 208 feet Depth of completed well 208 feet

(6) CONSTRUCTION DETAILS:

Casing installed: 6 in. diam. from 0 ft. to 203 ft.
 Welded in. diam. from ft. to ft.
 Liner installed in. diam. from ft. to ft.
 Threaded in. diam. from ft. to ft.Perforations: Were perforations made? Yes

Perforator type:

Size of perforation: in. by: in.

Perforations from: ft. to ft.

Perforations from: ft. to ft.

Screens: Screens installed

Manufacturer's name: Johnson

Type: Telescoping

Diam. 6 in. slot size .016 from 203 ft. to 208 ft.

Diam. in. slot size from ft. to ft.

Gravel: Yes Size of gravel: in.

Gravel Placed from: ft. to ft.

Surface seal: Yes To what depth?: 18 ft.

Material used in seal: Bentonite

Did any strata contain unusable water Yes

Type of water: Depth of strata: ft.

Method of sealing strata:

(7) PUMP: Manufacturer's name: Goulds

Type: Submersible HP: 1

(8) WATER LEVELS Land-surface elevation
above mean sea-level: 310 ft.

Static level: 108 ft. below top of well Date: 6/21/2005

Artesian pressure: PSI Date:

Artesian water is controlled by:

(9) WELL TESTS Drawdown is amount water level is lowered below static level.

Was a pump test made? Yes, by: Don Lofall

Yield: 15 GPM with 15 ft. drawdown after 1.5 hrs

Yield: GPM with ft. drawdown after hrs

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

Time	Water level	Time	Water level	Time	Water level
10 min.	108'				

Date of test: 6/21/2005

Bailer test: 20 GPM with 28 ft. drawdown after hrs.

Air test: GPM with stem set at ft. for hrs.

Artesian flow: GPM Date:

Temp. of water: deg. Was a chemical analysis made? Yes(10) WELL LOG or
ABANDONMENT PROCEDURE DESCRIPTIONFormation: Describe by color, character, size of material and
structure, and show thickness of aquifers and the kind and nature
of the material in each stratum penetrated, with at least on entry for
each change of formation.

MATERIAL	FROM	TO
BROWN HARDPAN	0'	67'
BROWN SAND & GRAVEL	67'	102'
GRAY HARDPAN	102'	108'
BROWN CLAY	108'	125'
BLUE CLAY	125'	144'
BROWN CLAY	144'	189'
GRAY SAND W/B	189'	192'
BROWN CLAY	192'	199'
GRAY SAND & GRAVEL W/B	199'	?

RECEIVED
AUG 05 2005
DEPT OF ECOLOGY

Work started: 6/13/2005 Work completed: 6/20/2005

WELL CONSTRUCTOR CERTIFICATION:

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

Contractor: LOFALL WELL DRILLING

Address: 180 NW Lofall Rd, Poulsbo, WA 98370

Signed: *Raymond A. Bonelli* License # 1463
(Well Driller)Contractor's
Registration No: LOFALWD124C5 Date: 7/12/2005

2

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL SCHEDULE

No. 78, 1E 8Q1

Date 8-21, 1975

Record by A. Williamson

Source _____



1. Location: State of WASHINGTON

County Jefferson

Area _____

Map _____

SW 1/4 E 14 sec 8 T28 N. 8 R

DIAGRAM OF SECTION

Details _____

#2

2. Owner or Tenant Port Ludlow Devd. (Hls No. _____)

Address Port Talbot

3. Driller _____ Address _____

4. Land-surface datum: 300 ft. above me
below

Topography: _____

5. Type: Dug Drilled - Driven _____ Depth - Rept _____ feet

Bored Jetted _____ Meas _____ feet

Date _____ 19 _____

6. Casings: Diam 8" to _____ In. Type _____

Depth _____ ft. Finish _____

7. Chief aquifer(s) _____ from _____ ft. to _____ ft.

8. Water levels: Rept. 9.5 ft. 7-21, 1975 above 4.5
Meas. 69.70 which is 5 ft. above me
below datum

9. Pump: Type Sub Capacity _____ gal. min.
Size _____

Driven by 20 horsepower

10. Yield: Flow _____ gal. min. Pump 160 gal. min. Meas. Kept Est. _____

Drawdown 42.5 ft. after _____ hours pumping _____ gal. min.

Adequacy, permanence _____

11. Use: Dom. Stock. PS. Ind. Irr. Obs. _____

12. Quality: Sample No. _____ 19 _____ Temp. _____ °F.

Taste, color, hardness, sanitation, etc. _____

13. Other data: Log Water levels Draft Pump test Analyses _____

Turn up _____

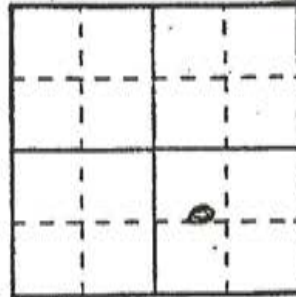
PORT LUDLOW REGION

2

Well Data Summary

REFERENCE NO. 10

LOCATION: T 28 R 1E Sec. 8 1/4 1/4 KQ B
LAND SURFACE ELEVATION 300 B DEPTH 245 DATE DRILLED 1968
VER. CODE



WELL OWNER: POPE TALBOT DEVELOPMENT, INC.

OWNER'S DESIGNATION WELL 2, N USE _____

INFORMATION SOURCE R+N 01-82 DRILLING METHOD CABLE

DRILLED BY STOICAN CASING SIZE (8) 10 Sec. _____

COMPLETION MODE SCREEN COMPLETION ZONE (S) 214-224
240-245

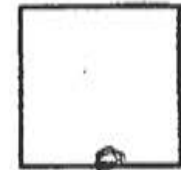
YIELD 15.8 A SPECIFIC CAPACITY 3.0 A

BWL 67.2 B DATE 11/1968 VER. CODE

AQUIFER TRANSMISSIVITY 15,000 B

STORAGE COEFFICIENT _____ VER. CODE

OTHER WATER BEARING ZONES PENETRATED _____



1/4 1/4 KQ

MAJOR AQUICLUDES PENETRATED _____

POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 67.0 B 11/71
VER. CODE

69.2 B 8/21/75 _____
VER. CODE VER. CODE VER. CODE

DETAILED SUPPLEMENTARY FILES

PUMP TEST DATA FILE _____

GEOLOGIC LOG SEE BACK

WATER CHEMISTRY _____

REMARKS 11/71: Q/A = 4.0 @ 1 HRS AND 160 gpm.

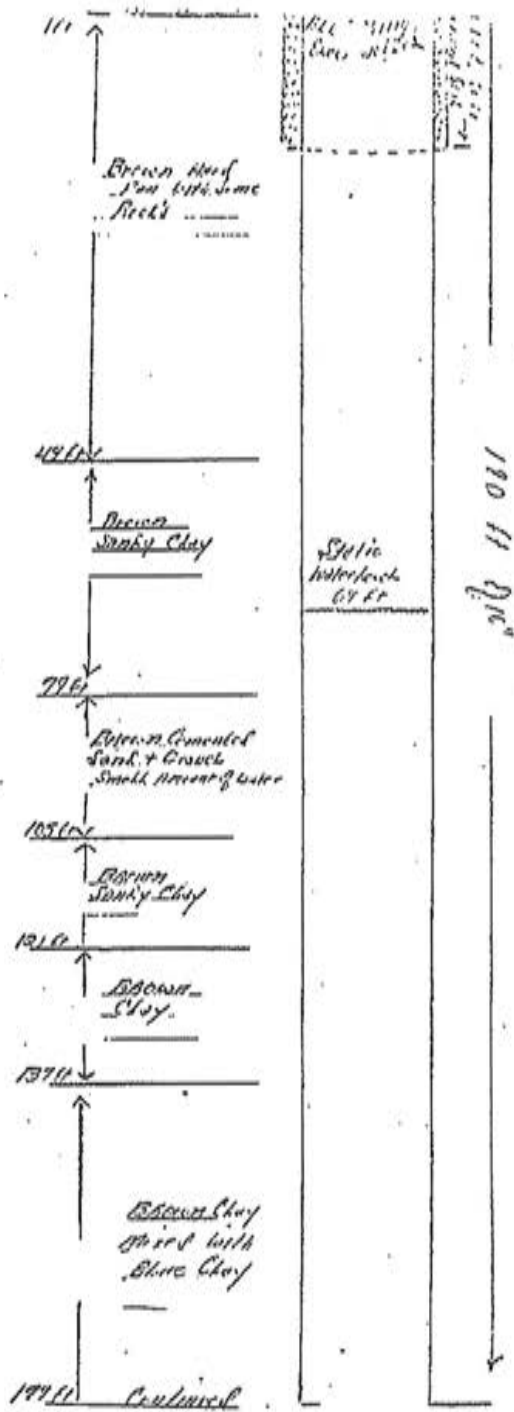
11/71 TEMP 49 1/2, pH = 7.4, HARD = 70, Fe = 0.3, H2S = SLIGHT.

MA = .16

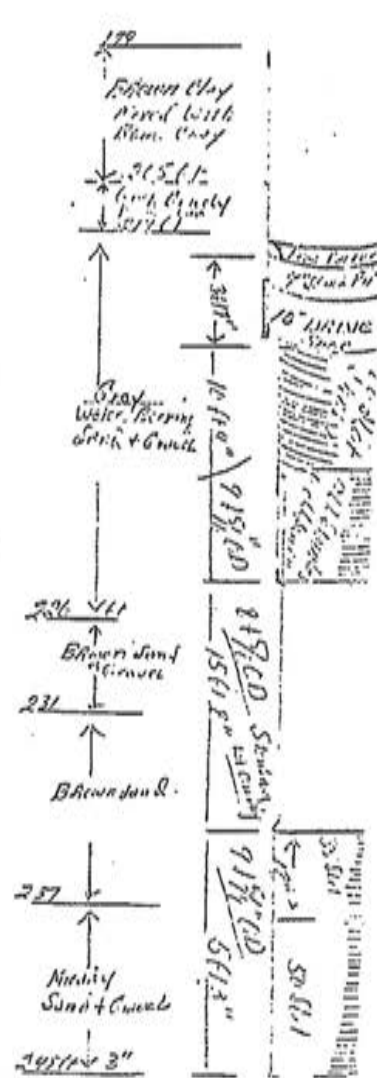
781 Walker Way

- REVIEW
- FIELD SCHEDULE

RECORD BY: MCS



1" Steel 1" Riv 15 ft @ 11'



Total Depth Top of Case
 Total Depth top of Cement
 Port. Cemented
 Segment 1. 111'

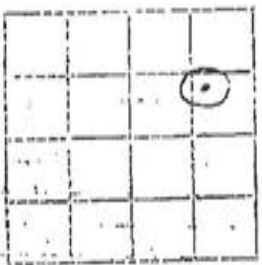
WELL #2

Appl. 10445
Per. 9874

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG

Record by Driller
Source Driller's record



Location: State of WASHINGTON
County Jefferson
Area
Map

NW 1/4 SE 1/4 NE 1/4 sec. 8 T. 28N., R. 1 E. Diagram of Section

Drilling Co. L.R. Gaudio
Address Tacoma, Washington

Method of Drilling Date 19

Owner Pope & Talbot Development Inc.
Address 113 Dexter Ave. NW Seattle, WA 98109

Land surface, datum ft. above
SWL: 144.5 Date Nov. 18 1968 Dims: 8" x 257'

CORRELATION	MATERIAL	From (feet)	To (feet)
-------------	----------	-------------	-----------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Community domestic supply		
	hardpan	0	34
	clay, sand, gravel	34	39
	hardpan	39	48
	clay, sand	48	57
	hardpan	57	80
	sand, gravel, some clay binder		
	small amount of water	80-82	128
	clay, silt & sandy wet peat	128	142
	clay, silt	142	162
	clay, gravel some sand	162	186
	clay, some gravel & peat	186	214
	sand, gravel & water	214	223
	sand, some gravel, clay layer	223	235
	sand, gravel, cemented layer	235	245
	water		

Turn up Sheet of sheets

PORT LUDLOW REGION

3

REFERENCE NO. 9 Well Data Summary

LOCATION: T 28 R 1E Sec. 8 1/4 1/4 H1 B
LAND SURFACE ELEVATION 380 B DEPTH 257 DATE DRILLED 1968
VER. CODE

WELL OWNER: POPE AND TALBOT DEVELOPMENT INC

OWNER'S DESIGNATION WELL 3, N USE _____

INFORMATION SOURCE R+N 01-82 DRILLING METHOD CABLE

DRILLED BY GAUDIO CASING SIZE (S) 8 Sec. _____

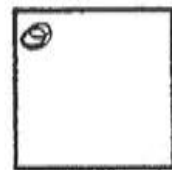
COMPLETION MODE SCREEN COMPLETION ZONE (S) 241-257

YIELD 88 A SPECIFIC CAPACITY 2.3 A
VER. CODE VER. CODE

SWL 144.5 B DATE 11/18/68
VER. CODE VER. CODE

AQUIFER TRANSMISSIVITY 6000 B 11/1971
VER. CODE VER. CODE

STORAGE COEFFICIENT _____ VER. CODE



1/4 1/4 H

OTHER WATER BEARING ZONES PENETRATED _____

MAJOR AQUICLUDES PENETRATED _____

POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 152 B 11/71
VER. CODE VER. CODE

156.5 B 8/21/75 _____
VER. CODE VER. CODE VER. CODE

DETAILED SUPPLEMENTARY FILES

PUMP TEST DATA FILE R+N FILE

GEOLOGIC LOG SEE BACK

WATER CHEMISTRY TEMP = 51°F, pH = 7.5, HARD = 102, Cl = 6, Fe = 0.4, H₂S = 0.00R, STRONG

REMARKS 11/71 Q/A = 2.0 @ 107 gpm @ 1 HR.

11/71 Fe = 0.1, H₂S = SLIGHT, Mn = .13

11/68 Cl = 6

Talbot Way

- REVIEW
- FIELD SCHEDULE

RECORD BY: MBS

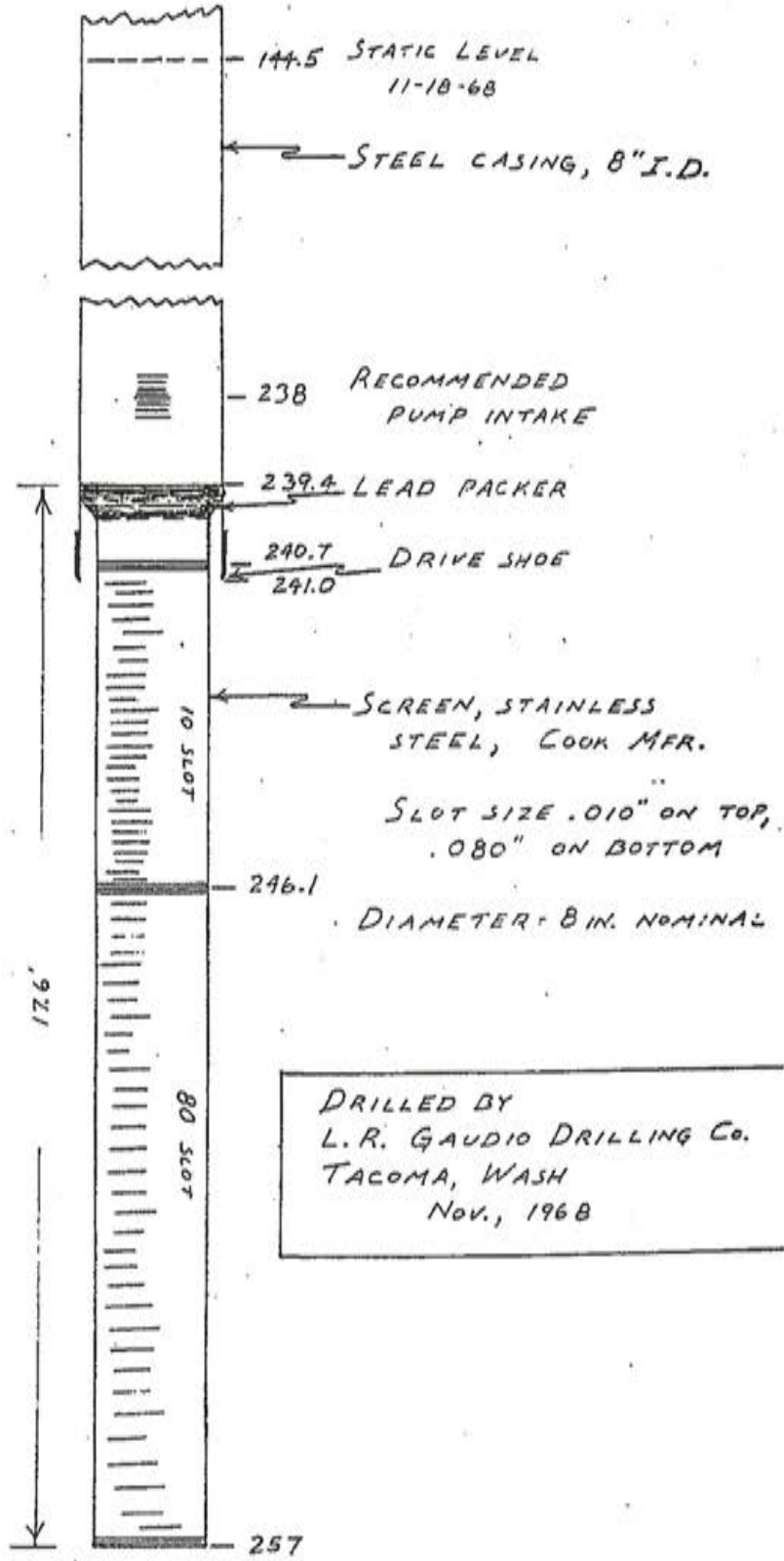
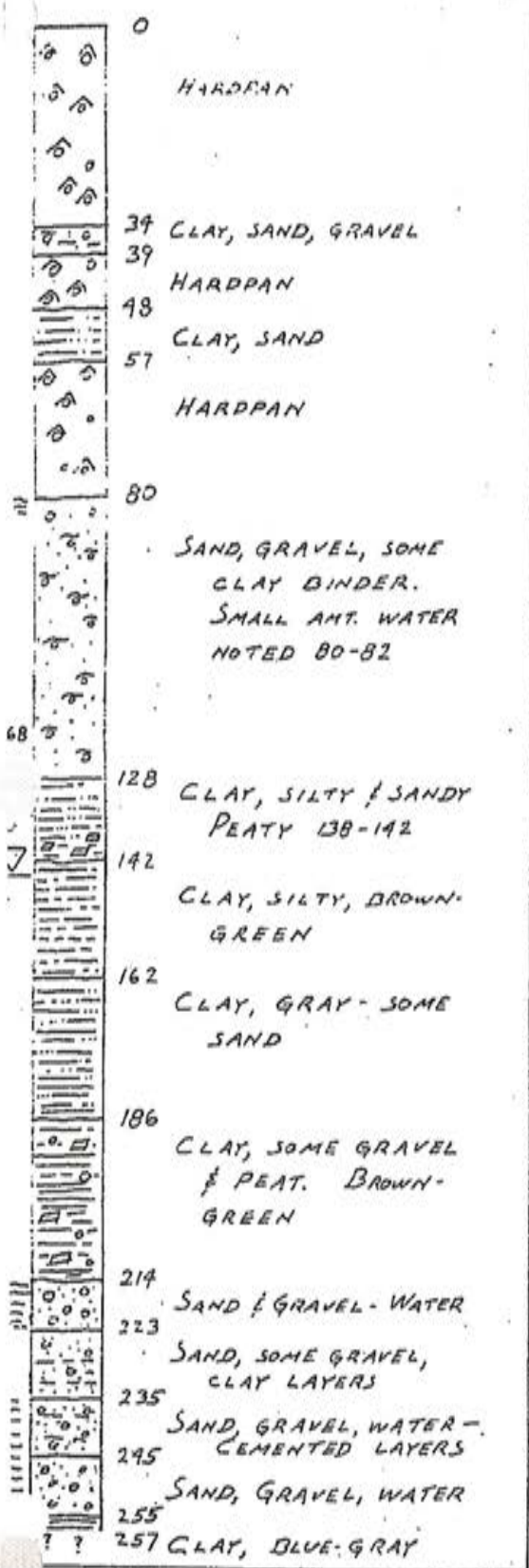
WELL No. 3 PORT LUDLOW

3

DRILLER'S LOG 1"=30'

CONSTRUCTION DETAILS 1"=3'

DEPTHS ARE FEET BELOW LAND SURFACE



DRILLED BY
 L. R. GAUDIO DRILLING Co.
 TACOMA, WASH
 Nov., 1968

POPE & TALBOT, INC
 SEATTLE, WASH.

ROBINSON, ROBERTS, & ASSOC.
 GROUND WATER GEOLOGISTS
 TACOMA WASHINGTON

Nov. 21, 1968
 J. B. Noble

POPE AND TALBOT DEVELOPMENT INC.
PORT LUDLOW REGION

4

REFERENCE NO. 8 Well Data Summary

LOCATION: T 28 R 1E Sec. 8 1/4 1/4 P B
VER. CODE

LAND SURFACE ELEVATION 340 TOPO D DEPTH 546 DATE DRILLED 1980
VER. CODE

WELL OWNER: POPE AND TALBOT DEVELOPMENT, INC.

OWNER'S DESIGNATION WELL 4,N USE _____
VER. CODE

INFORMATION SOURCE R+N 79-81 DRILLING METHOD CABLE
VER. CODE

DRILLED BY STORY+ARMSTRONG CASING SIZE (S) 12 X 315.6 Sec. 8

COMPLETION MODE SCREEN COMPLETION ZONE (S) 315.6-329.7 100+80 SLOT
361.3-377.1 10+30 SLOT

YIELD 94 A SPECIFIC CAPACITY 1.7 A
VER. CODE VER. CODE

BWL 158.9 REC. B DATE 4/28/80
VER. CODE VER. CODE

AQUIFER TRANSMISSIVITY 3030 + 4280 A
VER. CODE VER. CODE

STORAGE COEFFICIENT _____
VER. CODE VER. CODE

OTHER WATER BEARING ZONES PENETRATED _____



MAJOR AQUICLUDES PENETRATED _____

POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 154 A 5/8/80
VER. CODE VER. CODE

VER. CODE VER. CODE VER. CODE

DETAILED SUPPLEMENTARY FILES

PUMP TEST DATA FILE R+N 79-81 w/ RECOVERY HYDROGRAPH

GEOLOGIC LOG SEE BACK

WATER CHEMISTRY R-N 79-81, OK

REMARKS Walden Lane (western "extension" of Walker Way)

- REVIEW
- FIELD SCHEDULE

RECORD BY: MBS



WATER WELL REPORT

STATE OF WASHINGTON

(1) OWNER: Name Ruth Altis Address Rt 1 Box 594A Pt Ludlow wa.
 (2) LOCATION OF WELL: County Jefferson S. E. - N. E. - S. W. - N. W. Sec. 8 T. 28 N. R. 1 E W.M.
 Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other
 (4) TYPE OF WORK: Owner's number of well (if more than one)
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
 Drilled 2 1/2 ft. Depth of completed well 21 1/2 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" diam. from 0 ft. to 21 1/2 ft.
 Threaded " diam. from ft. to ft.
 Welded " diam. from ft. to ft.

Perforations: Yes No
 Type of perforator used
 SIZE of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.

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

Gravel packed: Yes No Size of gravel:
 Gravel placed from ft. to ft.

Surface seal: Yes No To what depth? 20 ft.
 Material used in seal Bestonite Portland Clay
 Did any strata contain unusable water? Yes No
 Type of water? Depth of strata
 Method of sealing strata off

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

(8) WATER LEVELS: Land-surface elevation above mean sea level... 480 ft.
 Static level 191 ft. below top of well Date 12-6-84
 Artesian pressure lbs. per square inch Date
 Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom?

Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

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

Time	Water Level	Time	Water Level	Time	Water Level
.....

Date of test
 Bailor test 37 gal./min. with 15 ft. drawdown after 14 hrs.
 Artesian flow g.p.m. Date 12-6-84
 Temperature of water Was a chemical analysis made? Yes No

(10) WELL LOG:

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

MATERIAL	FROM	TO
<u>Brown sandy clay</u>	<u>0</u>	<u>25</u>
<u>lite. gray sandy clay</u>	<u>25</u>	<u>40</u>
<u>UB fine Brown sandy clay</u>	<u>40</u>	<u>50</u>
<u>fine Brown sandy clay</u>	<u>50</u>	<u>105</u>
<u>Coarse Brown sandy clay</u>	<u>105</u>	<u>135</u>
<u>Brown sandy clay + gravel</u>	<u>135</u>	<u>145</u>
<u>Brown sandy clay</u>	<u>145</u>	<u>158</u>
<u>Brown sandy hard pan</u>	<u>158</u>	<u>170</u>
<u>Brown sandy clay</u>	<u>170</u>	<u>200</u>
<u>UB Brown sandy clay + gravel</u>	<u>200</u>	<u>21 1/2</u>

RECEIVED
 94 DEC 10 AM 1:17
 DEPARTMENT OF ECOLOGY
 S.W. REGIONAL OFFICE

Work started 11-21-84 Completed 12-6-84

WELL DRILLER'S STATEMENT:

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

NAME Richard Bekkevar (Type or print)

Address 2722 Nuy 1016 Sequim WA

[Signed] Richard Bekkevar (Well Driller)

License No. 779 Date 12-7-84

9

WATER WELL REPORT

START CARD NO W129124

UNIQUE WELL I D # AFC 960

STATE OF WASHINGTON

WATER RIGHT PERMIT NO

107757

(1) OWNER: Name Chris Baschab Address P.O. Box 65056 Port Ludlow, Wa. 98365

(2) LOCATION OF WELL: County Jefferson NE 1/4 SW 1/4 Sect 8 T 28N R 1E WM

(2a) STREET ADDRESS OF WELL (or nearest address) 231 Coursey Lane Port Ludlow

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
 New Well Method Dug Bored
 Abandoned Cable Driven
 Deepened Rotary Jetted
 Reconditioned

(5) DIMENSIONS: Diameter of well 6" inches
Drilled 275 feet Depth of completed well 276 feet

(6) CONSTRUCTION DETAILS:
Casing installed 6" diam From 0 ft To 271-10 ft
 Welded 5" diam From 269-1 ft To 270-10 ft
 Liner
 Threaded diam From ft To ft

Perforations Yes No
Type perforator used _____
Size of perforations _____ in by _____ in
_____ perforations From _____ ft To _____ ft
_____ perforations From _____ ft To _____ ft
_____ perforations From _____ ft To _____ ft

Screens Yes No
Manufacture's Name Johnson
Type Stainless V-Slot Model No _____
Diam 5" Slot size 0.10 From 270-10 ft To 276 ft
Diam _____ Slot size _____ From _____ ft To _____ ft
Diam _____ Slot size _____ From _____ ft To _____ ft

Gravel packed Yes No Size of gravel _____
Gravel placed from _____ ft To _____ ft
Surface seal Yes No To what depth? 25 ft
Material used in seal Mad Chip Bentonite
Did any strata contain unusable water? Yes No
Type of water _____ Depth of strata _____ ft
Method of sealing strata off _____

(7) PUMP: Manufacture's Name _____
Type H P

(8) WATER LEVELS: Land surface elevation above sea level 430 ft
Static level 226.5 ft below top of well Date May 15, 2001
Artesian pressure _____ lbs per square inch Date _____
Artesian water is controlled by _____
(Cap, valve, etc)

(9) WELL TEST: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No if yes, by whom? _____
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Yield _____ gal/min with _____ ft drawdown after _____ hrs
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level

Date of test _____
Bailer test 3 gal/min with 44.7 ft drawdown after 2 hrs
Airtest _____ gal/min with stem set at _____ ft for _____ hrs
Artesian flow _____ gal/min Date May 11, 2001
Temp of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
Brown hard clay, gravel	0	35
Gray cemented gravel	35	45
Brown packed sand & clay	45	56
Brown very fine sand, packed, dry	56	69
Brown sandy clay	69	75
Brown silty clay	75	102
Brown very fine sand, loose, dry	102	137
Brown packed sand & small gravel	137	151
Brown tight sand, small gravel, seepage	151	162
Brown sandy clay, dry	162	177
Light gray sandy clay, firm	177	189
Brown sandy clay, firm	189	201
Blue clay	201	212
Blue sandy clay	212	217
Blue sandy firm clay, stratified, seepage	217	224
Blue sandy clay	224	230
Blue silty clay	230	246
Blue fine sand, stratified, dirty	246	250
Light brown sandy clay	250	260
Light brown sandy, gravelly clay	260	266
Brown med. & coarse sand, W/B	266	271
Brown med. & coarse sand, pea gravel, W/B	271	275
Brown tight gravel, clay, no flow	275	

Well Yield Note Well has intermittent yields down to 3 gpm from a average yield of 10 plus gpm do to high pumping rate of Pope Resource well located approx. 900 feet from this well.

RECEIVED

DEC 14 2001

Washington State
Department of Ecology

Worked started Mar 28, 2001 Completed May 15, 2001

WELL CONSTRUCTOR CERTIFICATION:

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

NAME Charlie's Drilling (Person, Firm, or Corporation)

Address P.O. Box 127 Port Hadlock, WA 98339

(Signed) Charlie Shuck License No. 0458 (Well Driller)

Contractor's Registration No. CHARLD*066 00

Date May 16, 2001

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL SCHEDULE No. 28,1E-3K1

Date 8-21 1975

Record by: A. Williamson

Source: _____



1. Location: State of WASHINGTON

County T Jefferson

Area _____

Map _____

NW 1/4 Sec 14 on R. 12 N. 2 E

Details _____

2. Owner or Tenant: W. J. ... (P.O. No. _____)
Address _____

3. Driller: ...

4. Land surface datum: ...
Topography: _____

5. Types: Dug _____ Drilled _____ Driven _____
Bored _____ Jetted _____
Date: 1975

6. Catalog: Diam. 6 in. to 6 in. Type _____
Depth ... ft. Finish _____

7. Chief aquifer(s): _____ from _____ ft. to _____ ft.

8. Water level: 142.65 ft. 8-21-1975 above/below datum
Mean _____

9. Pump Type: ... Capacity _____ gal/min
Driven by: _____

10. Yield: Flow _____ gal/min. Pump _____ gal/min. Min. Req. Est. _____
Drawdown _____ ft. other _____
Adequacy, permanence _____

11. User: Dom. Stock. PS. Irr. Obs. _____

12. Quality: Sample No. _____ Temp. _____
Taste, color, hardness, sanitation, etc. _____

13. Other data: Log Water levels Draft Pump test Analyzes
Turn up