

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 gulley 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 gasolinerange organics (GRO) and benzene concentrations [5,530 and 948 micrograms per liter (µg/L), respectively] that exceeded the Model Toxics Control Act (MTCA) Method A groundwater cleanup levels (800 and 5 µg/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 splitbarrel 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 Soil boring logs that present the field screening results are presented in borings. 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 ANALYTCAL 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-dichlorooethane (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 Based on the presence of the clay and the inferred deep perched groundwater. 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,

Mr. Larry Smith Page 11

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

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

			Approximate			Analy	Analytical Results (mg/kg)	g/kg)		
Soil Boring Number	Sample Name	Date Collected	Sample Depth (feet)	Benzene	Toluene?	Ethylbenzene*	Total Xylenes	Naphthalene ²	GRO	Lead
MTCA Method A Cleanup Levels*	unp Levels			0.03	7	9	6	Ϋ́ο	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	1111
MW-1	MW1-40"	6/8/2010	40 to 40.3	<0.03	<0.05	<0.05	40.15	40.05	4	NA
MW-I	MW1-55	6/8/2010	55 to 55.5	<0.03	<0.05	40.05	40.15	40.05	0	NA
MW-2	MW2-40"	6/9/2010	40 to 40.3	0.21	0.062	0.11	990'0	40.05	2.90	NA
MW-2	MW2-55.5°	6/9/2010	55.5 to 55.8	0.21	△0.05	<0.05	0.15	0.05	Ø	NA
MW-3	MW3-30.5	6/9/2010	30.5 to 30.9	40.03	<0.05	40.05	<0.15	40.05	4	NA
MW-3	MW3-45.5	6/10/2010	45.5 to 45.9	98070	<0.05	<0.05	<0.15	40.05	0	NA
MW4	MW4-31	6/10/2010	30.5 to 31	<0.03	<0.05	<0.05	40.15	0.05	0	NA
MW-4	MW4-55	6/11/2010	55 to 55.5	40.03	<0.05	40.05	△0.15	<0.05	Q	NA
NOTES										

mg/kg = milligrams per kilogram (ppm).

Values in bold exceed the soil cleanup levels.

NA = Not analyzed.

*Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and naphthalene by EPA Method 8260C.

*Casoline-range organics (GRO) by Ecology Method NWTPH-Gx

"Lead by EPA Method 200.8.

Chapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.

*The cleanup level is the total value for asphibalene, 1-motityl naphibalene, and 2-motityl naphibalene.

Fine 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

			-			Analytical Results (ug/L)	suits (µg/L)				
Well Number	Date	Benzene ^a	Toluene*	Ethylbenzene*	Total Xylenes*	Naphthalene*	MTBE.	EDC"	EDB	GRO*	Total Lead
MTCA Method A Cleanup Levels	p Levels*	9	1,000	700	1,000	160	20	5	0.01	800	15
MW-1	6/14/2010	110	45	1.10	981	▽	∀	4	<0.01	066	▽
	10/20/2010	520	140	110	221	15	NA	NA	NA	1,300	NA
MW-2	6/14/2010	2,100	620	896	059	100	∀	1	<0.01	8,400	∇
	10/20/2010	1,300	290	430	530	35	NA	NA	NA	3,900	NA
MW-3	6/14/2010	0.36	⊽	▽	Ø	V	∀	▷	<0.01	<100	▽
	10/20/2010	<0.35	⊽	∀	Ø	∨	NA	NA	NA	<100	NA
NW4	6/14/2010	<0.35	<u>~</u>	∀	Ø	∇		∇	<0.01	<100	V
	10/20/2010	<0.35	∀	7	Ø	∇	NA	NA	NA	<100	NA

NOTES:

ug/L = micrograms per liter (ppb).

Values shaded and in bold exceed the groundwater cleanup levels.

NA = Not analyzed.

Benzene, 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.

'Gasoline-range organics (GRO) by Ecology Method NWTPH-Cix.

Total lead by EPA Method 200.8.

*Chapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.

The 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

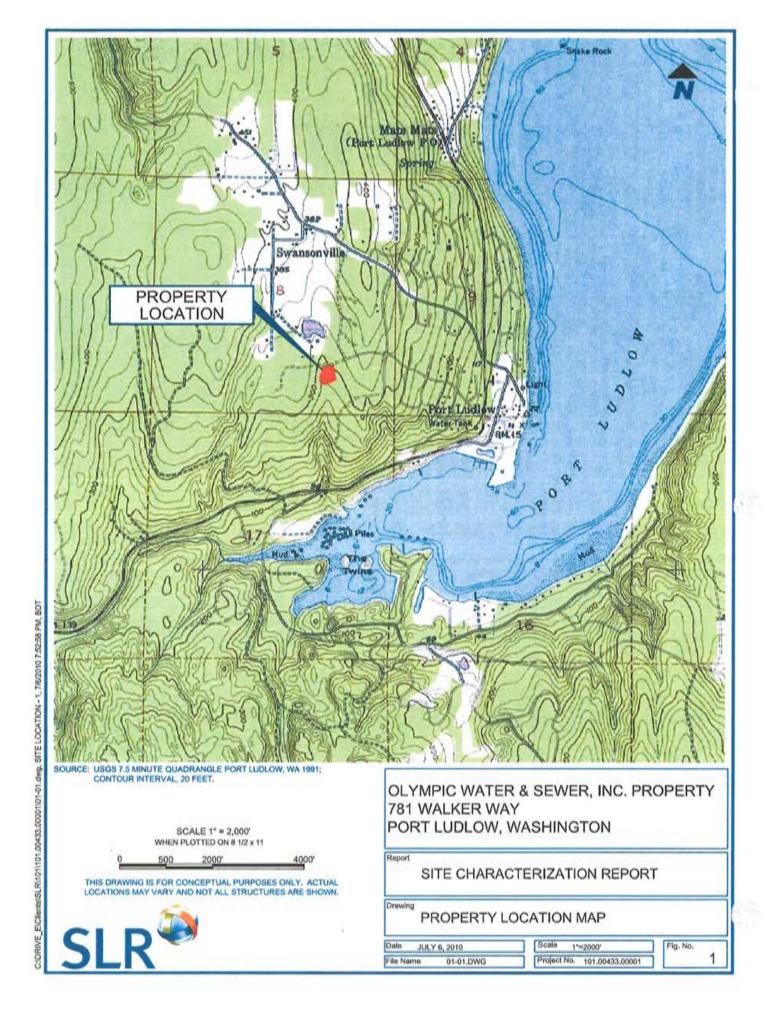
Well Number	Top of Casing Elevation ^a (feet)	Date Measured	Depth to Groundwater ^b (feet)	Groundwater Elevation (feet)
MW-1	294.02	6/14/2010	41.33	252.69
	000000000000	10/20/2010	40.30	253.72
MW-2	293.79	6/14/2010	39.63	254.16
707000 X 1000	INDOCESCO DE LA COMPONIO DEL COMPONIO DE LA COMPONIO DEL COMPONIO DE LA COMPONIO DEL COMPONIO DE LA COMPONIO DEL COMPONIO DE LA COMPONIO DEL COMPONIO DEL COMPONIO DEL COMPONIO DEL COMPONIO DE LA COMPONIO DEL COMPONIO DE LA COMPONIO	10/20/2010	40.71	253.08
MW-3	289.37	6/14/2010	25.19	264.18
	117X117X119X4	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

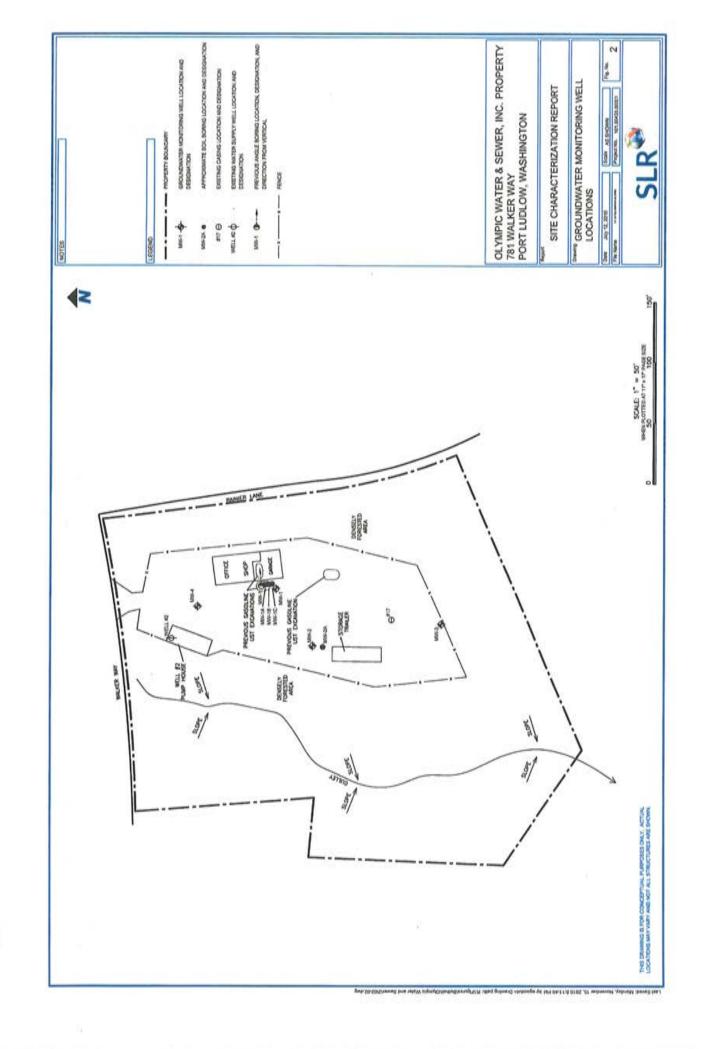
Notes:

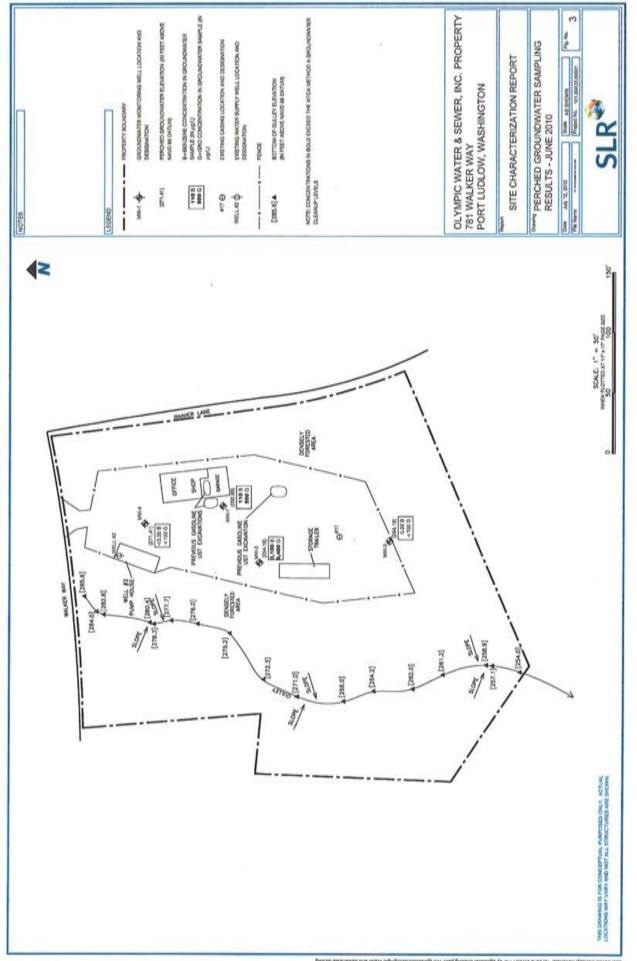
^aTop of casing elevations were surveyed relative to the NAVD 88 datum.

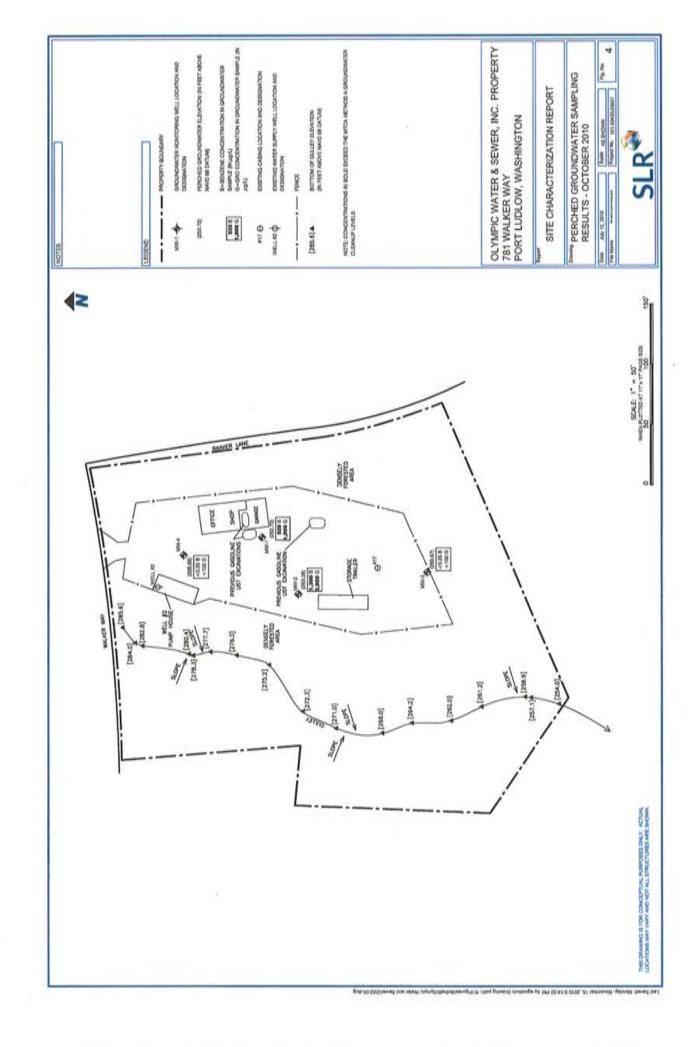
Depth to groundwater measured in feet below top of PVC casing.

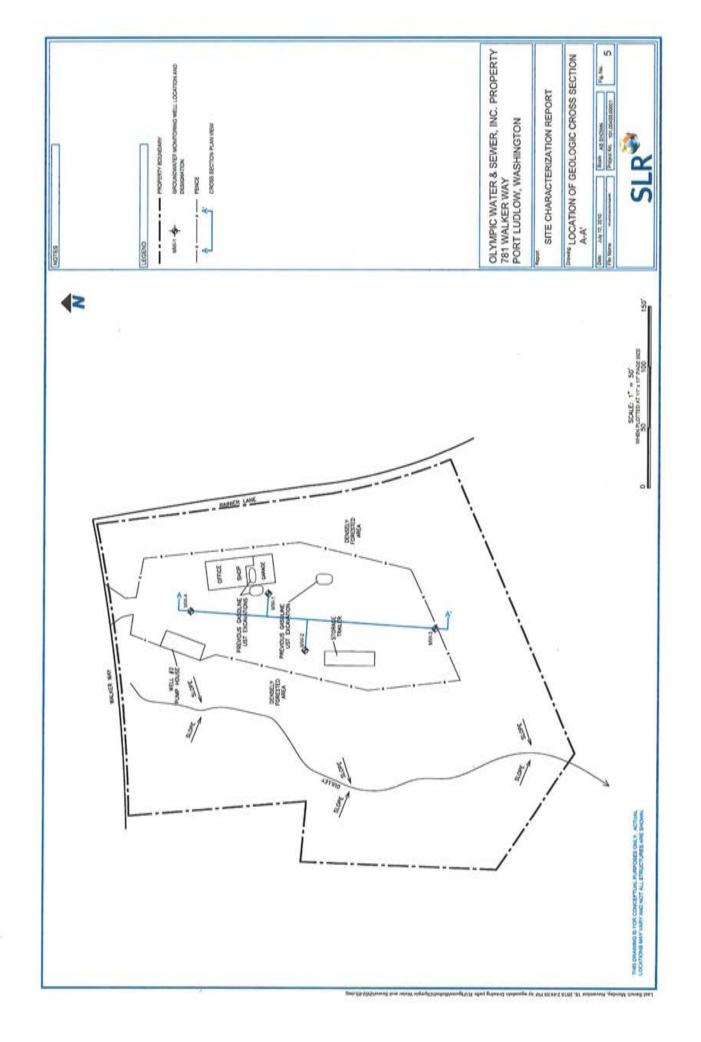
FIGURES

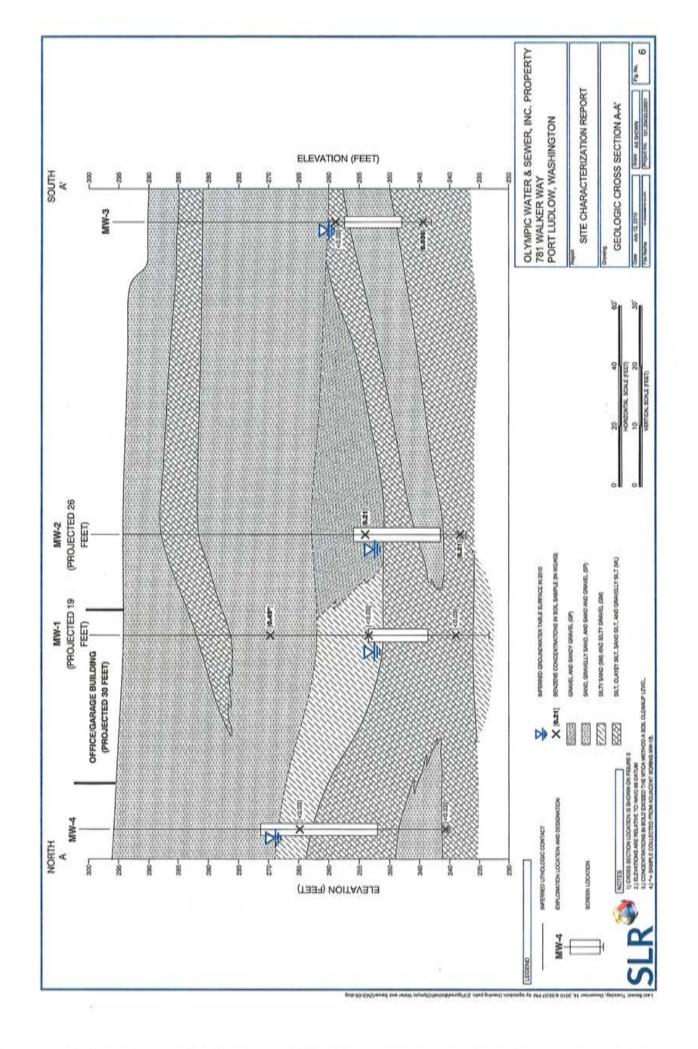


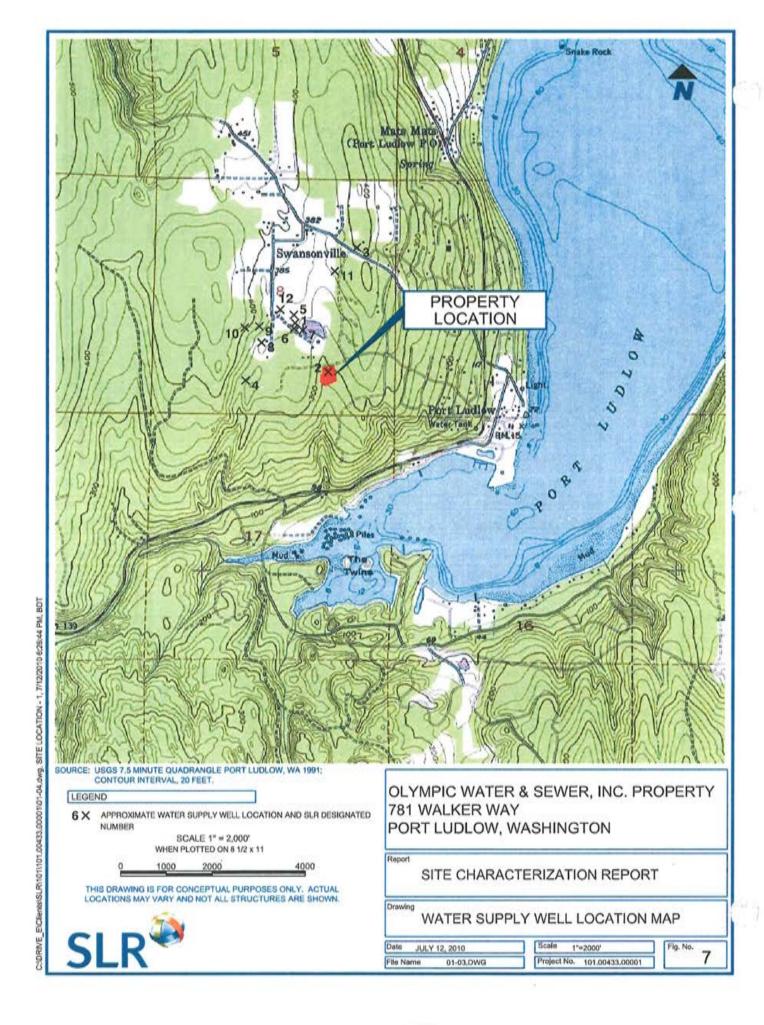


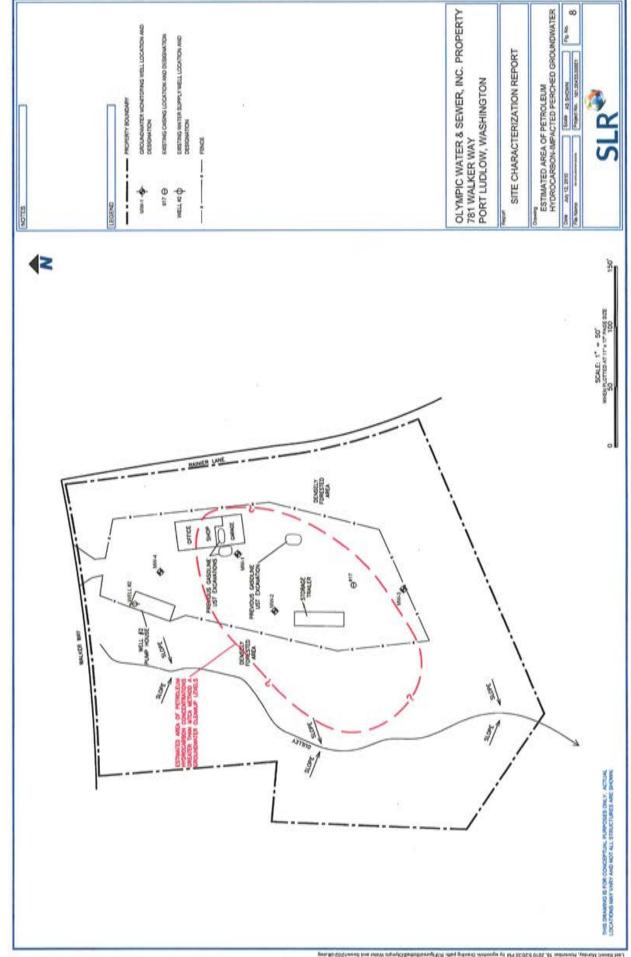












APPENDIX A

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

System ID No:

68700L

Lab - Sample #:

01055901

Sample Location:

Well #2 Sink

Sample Purpose: Sample Composition: S

Send Report To:

Olympic Water And Sewer

781 Walker Way

Port Ludlow, WA 98365

Group:

System Name:

Olympic Water And Sewer

County:

Jefferson

DOH Source No: S01

Date Received:

4/15/2010

4/22/2010

Date Analyzed: 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*	MCL Exceeded	Method (Analyst Init.)
EPA/State	Regulated	****			-		Annes and the second se	
103	L2-Dibromo-3-Chloropropane	ND	ug/L	0,5	0.5	0.2		EPA 524.2 (TM)
160	Total Xylenes	ND	μg/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	μg/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	µg/L	0.5	0.5	5		EPA 524.2 (TM)
49	Benzene	ND	µg/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	ng/L	0.5	0.5	5		EPA 524.2 (TM)
63	1.2-Dichloropropane	ND	ng/L	0.5	0.5	5		EPA 524.2 (TM)
66	Toluene	ND	µg/L	0.5	0,5	1000		EPA 524.2 (TM)
67	1.1.2-Trichoroethane	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	μg/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	Vinvl Chloride	I ND	ng/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	ng/L	0.5	0,5	600		EPA 524.2 (TM)
95	1,2,4-Trichlorobenzene	ND	µg/L	0.5	0.5	70		EPA 524.2 (TM)
46	1,1-Dichloroethylene	ND	µg/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.

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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

System ID No:

68700L

Lab - Sample #:

01055901

Sample Location:

Well #2 Sink

Sample Purpose:

Sample Composition:

Send Report To:

Olympic Water And Sewer

781 Walker Way

Port Ludlow, WA 98365

Group:

System Name:

Olympic Water And Sewer

County:

ty: Jefferson

DOH Source No: S01

Date Received:

4/15/2010

Date Analyzed:

4/22/2010

Date Reported:

4/23/2010

Sample Type:

Post-treatment/Finished

Collected By:

Greg Rac

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.)
PA Unregu	lated							
58	1.1-Dichloroethane	ND	µg/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	με/L.	0.5	0,5			EPA 524.2 (TM)
104	Dichlorodifluoromethane	ND	µg/L	0.5	0.5	530		EPA 524.2 (TM)
64	Dibromoethane	ND	це/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	µg/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	μg/L	0.5	0.5	21		EPA 524,2 (TM)
78	Bromobenzene	ND	ng/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.	· µg/L	0.5	0.5			EPA 524.2 (TM)
89	1,3,5-Trimethylbenzene	ND	µg/L	0.5	0,5			EPA 524.2 (TM)
54	Bromomethane	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
82	P-Chlorotolueng	ND	ug/L	0.5	0.5			EPA 524.2 (TM)
90	Tert-Butybenzene	ND	µg/L	0.5	0.5			EPA 524.2 (TM)
91	1,2,4-Trimethylbenzene	ND	µg/L	0.5	0,5		74.00	EPA 524.2 (TM)
92	Sec-Butylbenzene	ND	Hg/L	0.5	0.5			EPA 524.2 (TM)
83	M-Dichlorobenzene	ND	др/L	0.5	0.5	-		EPA 524.2 (TM)
93	P-Isopropyltoluene	ND	ng/L	0.5	0.5			EPA 524.2 (TM)
94	N-Butylbenzene	ND	µg/L	0.5	0.5			EPA 524.2 (TM)
55	Chloroethane	ND	µg/L	0.5	0.5			EPA 524.2 (TM)
97	Hexachlorobutadione	ND	μg/L	0.5	0,5			EPA 524.2 (TM)
96	Naphthalene	ND	ng/L	0.5	0,5	,		EPA 524.2 (TM)
98	1.2.3-Trichlorobenzene	ND	ug/L	0.5	0.5	1		EPA 524,2 (TM)
85	Trichlorofluoromethane	ND	µg/L	0.5	0.5	-		EPA 524.2 (TM)
arrest and the second second	ated - Trihalomethanes Program	11/2	al-respondent for	- Comment of Street	-1	***************************************		
31	Total Trihalomethanes	ND	µg/L		60	80		EPA 524.2 (TM)
27	Chloroform	ND	µg/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		The state of the s		EPA 524.2 (TM)
30	Bromoform	ND	µg/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

System ID No:

68700L

Lab - Sample #:

01055901

Sample Location:

Well #2 Sink

Sample Purpose:

Sample Composition: Send Report To:

Olympic Water And Sewer

781 Walker Way

Port Ludlow, WA 98365

Group:

System Name:

Olympic Water And Sewer

County:

Jefferson

S01 DOH Source No:

Date Received:

4/15/2010

Date Analyzed:

4/22/2010

Date Reported:

4/23/2010

Sample Type: Collected By: Post-treatment/Finished 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.)	26
					-		ALCOHOLOGICA CONTRACTOR CONTRACTO		4

SRL:

Trigger Level:

(State Reporting Level), indicates the minimum reporting level required by the Washington Department of Health (DOH).

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.

(Maximure Contaminant Level), If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.

MCL: NA:

(Not Analyzed), in the results column indicates this compound was not included in the current analysis. (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL

ND: < (0,00x);

indicates the compound was not detected in the sample at or above the concentration indicated. The 0,010 mg/L MCL for Arsenie 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

SI] terna	R dional Cor		one: 425	ngton 98021 5.402.8800 488			PAGE 1 C	OF 2
					wer, Inc.			PROJECT NAME Olympic Water and Sewer, Inc. Property	
PROJ	ECT	NUMBE	R 101	.00433	3.00001			PROJECT LOCATION _701 Walker Way, Port Ludlow, WA	
DATE	STA	ARTED	4/14/10		co	MPLE	TED _4/	4/10 GROUND ELEVATION HOLE SIZE 8.25-inch-diame	ter
DRILL	ING	CONTR	ACTOR	Case	cade Drillin	Ω		GROUND WATER LEVELS:	
DRILL	ING	METHO	D Holle	ow Ste	m Auger			AT TIME OF DRILLING	
ogg	ED	BY CL	.00		СН	CKE	BY _	AT END OF	
NOTE	s _							AFTER DRILLING	_
o DEPIH	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (nom)
o Taio Name	Т					GP	000	GRAVEL, crushed rock parking lot surface.	
2.5	V.	D&M		50	3	SP		SAND, brown, fine-grained, few fine gravel, very loose, moist, no hydrocarbon-like odors or staining.	0.
- 7.5							6.	SILTY SAND, brown, fine-grained, little silt, few fine gravel, very dense, moist to wet, slight hydrocarbon-like odor.	
-								@ 7.5 feet: Becomes wet, gray.	
	Χľ	M&C		100	50	SM			5
10.0								@ 9.5 feet: Gravel becomes fine to coarse, paper debris in sampler.	
								2.0	
PID:	= S	amples otoloniz	ation de	tector.	sing an 18-			inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline h	am

22122 20th Avenue SE Bothell, Washington 98021 Telephone: 425,402,8800 SLR International Corp. Fax: 425.402.8488

BORING NUMBER MW-1A

PAGE 2 OF 2

2000		1 1 1 1 1 1 1 1	BER 10		wer, Inc. 3.00001		_	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	MATERIAL DESCRIPTION	PID (ppm)
12.5								SILT, gray, few fine-grained sand, hard, moist, moderate hydrocarbon-like odor.	
15.0	X	D&M		100	50/6"	ML			4.9
17.5						SP		SAND, gray, very fine-grained, few fine gravel, few cobbles, very dense, damp, strong hydrocarbon-like odor.	
1	X	D&M		100	50/6"			19.5	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.

BORING NUMBER MW-1B 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 ---BLOW COUNTS PER FOOT (N VALUE) GRAPHIC LOG RECOVERY U.S.C.S. (mdd) NTERVA DEPTH (ft) NAME MATERIAL DESCRIPTION 임 GRAVEL, crushed rock parking lot surface. GP SAND, brown, fine-grained, few fine gravel, moist, no hydrocarbon-like odors or 2.5 SP 5.0 SILTY SAND, brown, fine-grained, little silt, few fine gravel, moist to wet, slight hydrocarbon-like odor. 7.5 SM

REMARKS

10.0

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.

CINT US.GDT 7/13/10

BORING NUMBER MW-1B

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

PAGE 2 OF 3

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		SILT, gray, few fine-grained sand, moist, moderate hydrocarbon-like odor.	
17.5								SAND, gray, very fine-grained, few fine gravel, few cobbles, very dense, damp, strong hydrocarbon-like odor.	
22.5						SP		@ 22.0 feet: Becomes brownish gray.	
25,0	X,	D&M	MW1- 24.5-25'*	100	50/6"			@ 24.0 feet: Very strong hydrocarbon-like odor.	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.

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

BORING NUMBER MW-1B

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								SAND, gray, very fine-grained, few fine gravel, few cobbles, very dense, damp, strong hydrocarbon-like odor. (continued)	
0.0	X	D&M		100	50	SP		@ 29.0 feet: Strong hydrocarbon-like odor.	43.9
32,5					2		31.5	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"	SM			7.8
- 37.5 -									

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.

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

BORING NUMBER MW-1C 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 DRILLING CONTRACTOR _Cascade Drilling DRILLING METHOD _Hollow Stem Auger LOGGED BY _C Lee CHECKED BY	
NOTES	AFTER DRILLING
O DEPTH O (#) INTERVAL TYPE NAME U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION
GP GRAVEL, crushed rock pa	rking lot surface.
SP SAND, brown, fine-grained	I, few fine gravel, moist, no odors or staining.
7.5 	grained, little silt, few fine gravel, moist to wet, slight hydrocarbon-like odor.
REMARKS	

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

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

BORING NUMBER MW-1C PAGE 2 OF 3

			BER 10			PROJECT NAME Olympic Water and Sewer, Inc. Property PROJECT LOCATION 701 Walker Way, Port Ludlow, WA
DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5						SILT, gray, few fine-grained sand, moist, moderate hydrocarbon-like odor.
15,0				ML		
- - 17.5					16.5	SAND, gray, very fine-grained, few fine gravel, few cobbles, damp, strong hydrocarbon-like odor.
20.0				SP		
22.5						

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.

BORING NUMBER MW-1C

PAGE 3 OF 3

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 (#)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
- 27,5						SAND, gray, very fine-grained, few fine gravel, few cobbles, damp, strong hydrocarbon-like odor. (continued)
30.0				SP		
32.5					31.5	SILTY SAND, brownish gray, very fine-grained, little silt, trace fine gravel, few cobbles, moist to very moist, slight hydrocarbon-like odor.
35.0				SM		
94						9

REMARKS

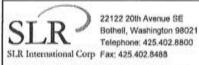
D&M = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer PID = Photoionization detector.

* = Sample submitted for laboratory analysis.

22122 20th Avenue SE Bothell, Washington 98021 Telephone: 425.402.8800

BORING NUMBER MW-2A

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



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"		29.5		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.

WELL NUMBER MW-1 PAGE 1 OF 5

PROJECT NAME Olympic Water and Sewer, Inc. Property

22 20th Avenue SE sell, Washington 98021 phone: 425,402,8800
425.402.8488

CLIENT Olympic Water and Sewer, Inc.

rico	EC	T NUM	BER 10	1.00433	3.00001	-		PROJECT LOCATION 701 Walker Way,	Port L	udlow, WA		
DRIL	INC	G CON	C 6/7/10 TRACTOR	R Tac	oma Pump		ling	GROUND WATER LEVELS:				
				- F15.100		CKE		AT END OF				
NOTE								AFTER DRILLING				
o DEPTH	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM		
2.5						GP.	<u>. P. C.</u>	0.2 GRAVEL, crushed rock parking lot surface. 290.8 SAND, brown, fine-grained, damp, no hydrocarbon-like odors or staining.		- CONCRET SURFACE SEAL		
5.0						SP		8	0	+ HYDRATE BENTONIT CHIPS		
0.0									0	BLANK PV RISER		
-												
	Ц	RKS					DOMEST.	12.0 278.8	_			

PAGE 2 OF 5

22122 20th Avenue SE Bothett, 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)	INIEKVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
12.5						ML		SILT, gray, few fine-grained sand, moist, no hydrocarbon-like odors or staining.	0	
17.5								SAND, gray, very fine-grained, few fine gravel, few cobbles, damp. @ 20.0 feet: Few fine gravel.	0	
22.5						SP		@ 22.0 feet: Moderate hydrocarbon-like odor in cuttings.	80.27	
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.

PAGE 3 OF 5

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

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
332.5						SM		SAND, gray, very fine-grained, few fine gravel, few cobbles, damp. (continued) 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.	0	
- 40.0										

REMARKS

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

(#) O (#)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL	DIAGRAM
1. 1. 1. 1.	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		-10x20 SILICA SAND PACK
42.5							42.5	SILT, grayish brown, hard, moist, no hydrocarbon-like odors or staining.			
45.0 - -	M	88		75	44	ML			0		-0.010"-SLOTTE
47.5							48.0	242.8			PVC SCREEN
-								CLAYEY SILT, brown, little clay, few fine gravel, hard, damp, no hydrocarbon-like odors or staining.			
50.0	X	SS		100	100	ML			0		- PVC END CAP
- 52.5	0.00						52,5	238.3			
7						ML		SANDY SILT, grayish brown, little very fine-grained sand, few fine gravel, hard, damp, no hydrocarbon-like odors or staining.			

REMARKS

PAGE 5 OF 5

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	PtD (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	HYDRATED BENTONITE CHIPS
57.5							5	SILTY SAND, brownish gray, very fine- to fine-grained, little silt, trace fine gravel, very dense, damp, no hydrocarbon-like odors or		
60.0	×	ss		90	50/2"	SM	6	staining.	0	

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 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.

= Sample submitted for laboratory analysis.

0

PAGE 2 OF 5

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

REMARKS

22.5

25.0 25.0

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.

PAGE 3 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

ДЕРТН (#)	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, few cobbles, few fines, very dense, damp, no hydrocarbon-like odors or staining. (continued)	0	
32.5								GRAVEL, brown, fine to medium, some cobbles, few fine-grained sand, trace fines, very dense, damp, no hydrocarbon-like odors or staining.		
35.0								@33.0 feet: Few silt, trace fine-grained sand.	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.

PAGE 4 OF 5

SIR 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 BLOW COUNTS PER FOOT (N VALUE) GRAPHIC LOG RECOVERY INTERVAL U.S.C.S. (mdd) DEPTH (ft) MATERIAL DESCRIPTION WELL DIAGRAM 읊 40.0 SS* MW2-40** 10x20 SILICA 100 50 GRAVEL, brown, fine to medium, some 14.9 SAND PACK 00° cobbles, few fine-grained sand, trace fines, 0 very dense, damp, no hydrocarbon-like odors or staining. (continued)
@ 40.0 feet: Cobble fragments in split-spoon sampler. Slight hydrocarbon-like odor. 42.5 000 247.6 GRAVELLY SILT, grayish brown, little fine to coarse gravel, hard, moist, no hydrocarbon-like odors or staining. 0.010"-SLOTTED **PVC** SCREEN 45.0 SS 100 50/5" 16.4 ML 47.5 242.6 GRAVELLY SAND, brown, fine- to coarse-grained, some fine to coarse gravel and cobbles, trace fines, dense, wet, slight hydrocarbon-like odor. 50.0 SS 100 50 SW 18.4 52.5 PVC END CAP 237.6 GRAVELLY SILT, brown, some fine- to coarse gravel and cobbles, trace clay, hard, moist, no hydrocarbon-like odors or staining. ML 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.

abla Water level at time of drilling.

Sample submitted for laboratory analysis.

PID = Photoionization detector.

GINT US GOT

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WELL NUMBER MW-2

PAGE 5 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	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
	X	SS	MW2- 55.5'*	50	80/10"	ML			0	CHIPS
								.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

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.

WELL NUMBER MW-3 PAGE 1 OF 4

	ell, Washington 98021 phone: 425.402.8800 425.402.8488
--	--

TE	ST	ARTE	6/9/10		co	MPLE	TED _	10/10 GROUND ELEVATION _286.23 ft	HOLE	SIZE 8-inch-diameter		
								GROUND WATER LEVELS:	- 1 To 1 I A CO. 1 TO 1			
			IOD Air					✓ AT TIME OF DRILLING 33.0 ft /				
					сн	ECKE	D BY					
NOTES								AFTER DRILLING				
(11)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM		
						SP		GRAVELLY SAND, brown, fine-grained, little fine to medium gravel and cobbles, damp, no hydrocarbon-like odors or staining.		- CONCRET SURFACE SEAL		
								SANDY SILT, brownish gray, little very fine-grained sand, few fine to medium gravel, moist to very moist, no hydrocarbon-like odors or staining.	-2 0	+HYDRATEI BENTONIT CHIPS		
						SP		SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining.	0	BLANK PVI RISER		

PID = Photoionization detector.
* = Sample submitted for laboratory analysis.

 ∇ Water level at time of drilling.

SLR GENERAL OWSLGPJ GNT US.GDT 771310

SLR International Corp. Fax: 425.402.8488

WELL NUMBER MW-3

PAGE 2 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	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
12.5				SP		SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining. (continued)	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.

PAGE 3 OF 4

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

(£)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL	. DIAGRAM
7.5						SP		SAND, gray, very fine-grained, few fine to coarse gravel and cobbles, few fines, damp, no hydrocarbon-like odors or staining. (continued)			
0.0		ecos i	1000	7000	09.00.00.00.00		1	29.5 256.7 SILT, light brown, hard, moist, no hydrocarbon-like odors or staining.			
-	X	SS	MW3- 30.5**	60	80/11"	ML			1,2		
2.5								33.0 ▽253.2			► 10x20 SILICA SAND PACK
					e)			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.			-0.010"-SLOT" PVC SCREEN
5.0	\langle	ss		100	100	SP			1.0		
7.5											
-											

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.

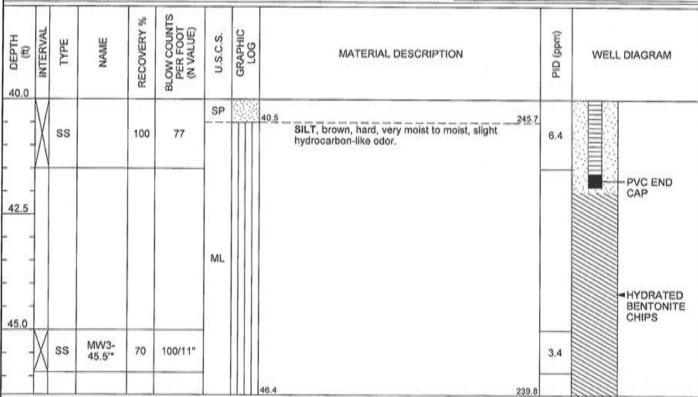
PAGE 4 OF 4

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



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 41.8 to 41.9 feet: Flush-threaded,

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 = Photoionization detector.

= Sample submitted for laboratory analysis.

✓ Water level at time of drilling.

WELL NUMBER MW-4 22122 20th Avenue SE PAGE 1 OF 5 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 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 _---BLOW COUNTS PER FOOT (N VALUE) GRAPHIC RECOVERY INTERVAL PID (ppm) DEPTH (ft) U.S.C.S. MATERIAL DESCRIPTION WELL DIAGRAM 0.0 ASPHALT. 291.8 SAND, brown, fine-grained, few fine gravel, damp, no hydrocarbon-like odors or staining. CONCRETE SURFACE SEAL SP 2.5 GRAVELLY SAND, brown, fine-grained, some fine to medium gravel and cobbles, trace fines, damp, no hydrocarbon-like odors or staining. 5.0 0 HYDRATED BENTONITE CHIPS 7.5 SP

REMARKS

10.0

GINT US GDT 7/13/10

OWSLGPJ

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.

BLANK PVC RISER

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WELL NUMBER MW-4

PAGE 2 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
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	

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.

PAGE 3 OF 5

SIR 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

E	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	WEL	L DIAGRAM
						SP		27.0 🗸			
7.5								SILTY SAND, grayish brown, fine-grained, little silt, trace fine gravel, wet, no hydrocarbon-like odors or staining.			+ 10x20 SILICA SAND PACK
.0	X	ss	MVV4-31'*	70	97/9"	SM			0		
.5								33.0 259.1 SILT, brown, few fine to medium gravel, hard, damp, no hydrocarbon-like odors or staining.			-0.010"-SLOT PVC SCREEN
0	×	SS		100	50/3"	ML			0		
5						 ML		GRAVELLY SILT, gray, some fine to medium gravel & cobbles, hard, very moist, no hydrocarbon-like odors or staining.			

REMARKS

OWSLGPJ GINT US GDT 7/13/10

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.

abla Water level at time of drilling.

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WELL NUMBER MW-4

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

######################################	INTERVAL	TYPE	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL D	IAGRAM
-	4	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.			
15.0	X	ss	100	100/6"				0		PVC END
7.5							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.			
0.0	×	ss	70	50/3"	\$P/GV	, o		0		IYDRATED ENTONIT
2.5				22						HIPS

REMARKS

SLR 22122 20th Avenue SE Bothell, Washington 98021 Telephone: 425,402,8800 SLR International Corp. Fax: 425,402,8488

PROJECT NAME Olympic Water and Sewer, Inc. Property

CLIENT Olympic Water and Sewer, Inc. 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	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
7 72 7 72						\$P/GV	, ,			
55.0						ML	Ш	GRAVELLY SILT, gray, little fine to coarse gravel, hard, damp, no hydrocarbon-like odors		
	M	ss	MW4-55'*	70	50/6"	IVIL		or staining.	0	

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 48.0 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.

APPENDIX C LABORATORY REPORTS

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

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.

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)

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

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

MW1-24.5-25

04/15/10

Date Received: Date Extracted: Date Analyzed:

04/21/10 04/22/10

Matrix:

Soil

Units:

mg/kg (ppm)

SLR International Corp.

Project:

101.00433.00001, F&BI 004160

Lab ID: Data File: 004160-01 004160-01.019

Instrument:

Operator:

ICPMS1 AP

Lower

Upper

Internal Standard: Holmium

Analyte:

% Recovery:

98

Limit: 60

Limit:

125

Concentration mg/kg (ppm)

Lead

1.11

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

Method Blank

NA

Date Received: Date Extracted:

04/21/10 04/22/10

Date Analyzed: Matrix:

Soil

Units:

mg/kg (ppm)

Client:

SLR International Corp.

Project:

101.00433.00001, F&BI 004160

Lab ID: Data File: 10-200 mb I0-200 mb.017

Instrument: ICPMS1

Operator:

AP

Internal Standard:

Holmium

% Recovery: 98

Lower Limit: 60

Upper Limit:

125

Concentration

mg/kg (ppm)

Lead

Analyte:

<1

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

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

Concentration mg/kg (ppm)

1,2-Dibromoethane (EDB)

Compounds:

< 0.005

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID: Method Blank
Date Received: Not Applicable
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:
 00552 mb

 Data File:
 042114.D

 Instrument:
 GCMS5

 Operator:
 MB

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

Concentration mg/kg (ppm)

1,2-Dibromoethane (EDB)

Concentration mg/kg (ppm)

<0.005

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW1-24.5-25
Date Received: 04/15/10
Date Extracted: 04/19/10
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:
 042107.D

 Instrument:
 GCMS4

 Operator:
 MB

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

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	
Date Received:	Not Applicable	
Date Extracted:	04/19/10	
Date Analyzed:	04/19/10	
Matrix:	Soil	
Units:	mg/kg (ppm)	

Client:	SLR International Corp.
Project:	101.00433.00001, F&BI 004160
Lab ID:	00544 mb
Data File:	041905.D
Instrument:	GCMS4
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)		,
****	-0.25		

n	mg/kg (ppm)		
	< 0.25		
	< 0.05		
	< 0.05		
	< 0.05,		
	< 0.03		
	< 0.05		
	< 0.05		
	< 0.1		
	< 0.05		
0.0	< 0.05		
	n		

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

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

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

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

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

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

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

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

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.

O Dispose after 30 days
O Return samples
O Will call with instructions Rush charges authorized by: TURNAROUND TIME SAMPLE DISPOSAL O Standard (2 Weeks) O RUSH Page 01-51-h0 3W Olympic Worker & Somer, Inc. 101.00433.000) PO# REMARKS PLEASE HOLD SAMPLES FOR par MS 4/19/10 ms Pessign America SAMPLE CHAIN OF CUSTODY ect loi, course, accord (GWSI) anite SAMPLERS (signature) PROJECT NAME/NO. Phone # (435) 403 - \$600 Fax # (435) 403 - 8488 6303 Company SLR INTERNATIONAL CORP City, State, ZIP SOTHEL WA 9802, Send Report To MIKE STATON Address 32/18 20 20 091400

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished b:	CHRIS LEE	22.5	4-15-10	
Received by C. C.	Kortland Orr	TAFI	01-51-4	TIM 01-71-4
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Received by: / ann	Mar Phan	FLBI	4/1/240	4/1340 1522



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.

<u>Laboratory Notations:</u> 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



T: 206.352,3790 F: 206.352,7178

email: info@fremontanalytical.com

Duplicate

Analysis of Volatile Petroleum Hydrocarbons in Soil by NWVPH

Project: 004160

Client: Friedman and Bruya, Inc.

Client Project #: A-390

Lab Project #: CHM100426-4

						Duplicate	
NWVPH (mg/kg)	MRL	Method Blank	LCS	LCD	MW1-24.5-25	MW1-24.5-25	RPD %
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			A SECULOR II	- CONTROLLAN	Soil	Soil	
Targeted Analytes							
methyl tert-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) Aliphatics*	0.05	nd			nd	nd	
C6-C8 (FID) Aliphatics*	0.05	nd			2.4	2.6	8%
C8-C10 (FID) Aliphatics*	0.05	nd			3.1	3.3	6%
C10-C12 (FID) Aliphatics*	0.05	nd			1.9	1.7	11%
C8-C10 (PID) Aromatics	0.05	nd			1.4	1.4	0%
C10-C12 (PID) Aromatics	0.05	nd			0.60	0.60	0%
C12-C13 (PID) Aromatics	0.05	nd			0.43	0.85	66%
Surrogate Recovery							
Triflourotoluene		101%	114%	116%	110%	116%	
Bromoflourobenzene		95%	103%	101%	95%	94%	

[&]quot;nd" indicates not detected at listed reporting limits

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

[&]quot;int" Indicates that interference prevents determination

[&]quot;" Excludes MTBE and BTEX Compounds

[&]quot;J" Indicates estimated value

[&]quot;MRL" Indicates Method Reporting Limit

[&]quot;LCS" Indicates Laboratory Control Sample

[&]quot;RPD" Indicates Relative Percent Difference

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

TURNAROUND TIME	KStandard (2 Weeks)	Bush charges authorized by:	SAMPLE, DISPOSAL Dispose after 30 days Return samples Will call with instructions
	PO#	A-390	om
SUBCONTRACTION 440 Frant	PROJECT NAMENO.	0041160	REMARKS Plense Email Results mendabléfriedmanandbruya.o
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Priedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fox (206) 283-5044

	O Michael Brdahl Friedman & Bruya 4/20/2 10 or Men	no be 1 Tree 18 hr F. A. 4/246 12:18		
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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

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.

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

All quality control requirements were acceptable.

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)

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW1-40' Client: Date Received: 06/09/10

Date Extracted: 06/10/10 Date Analyzed: 06/11/10

Matrix:

Units:

Soil mg/kg (ppm)

SLR International Corp.

Project:

Olympic Water & Sewer, Inc. F&BI 006107

Lab ID: Data File: Instrument: 006107-01 061029.D

Operator:

GCMS5 VM

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

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

ENVIRONMENTAL CHEMISTS

42

36

50

Analysis For Volatile Compounds By EPA Method 8260C

% Recovery:

108

Client Sample ID:	MW1-55'
Date Received:	06/09/10
Date Extracted:	06/10/10
Date Analyzed:	06/11/10
Matrix:	Soil
Units:	mg/kg (ppm)

Surrogates: 1,2-Dichloroethane-d4

Client:	SLR International Corp.
Project:	Olympic Water & Sewer, Inc. F&BI 006107
Lab ID:	006107-02
Data File:	061030.D
Instrument:	GCMS5
Operator:	VM
Lower	Upper
Limit:	Limit:
	Dec 200 LL M2 vib

152

149

150

I, C LOTHER COULTERING OF I	W 47 47
Toluene-d8	120
4-Bromofluorobenzene	129
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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

% Recovery:

104

112

Client Sample ID: Method Blank
Date Received: NA
Date Extracted: 06/10/10
Date Analyzed: 06/10/10
Matrix: Soil

Units: mg/kg (ppm)

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

Client: SLR International Corp.
Project: Olympic Water & Sewer, Inc. F&BI 006107

Project: Olympic V Lab ID: 00731 mb Data File: 061019.D Instrument: GCMS5 Operator: VM

50

Operator: VM

Lower Upper
Limit: Limit:
42 152
36 149

150

4-Bromofluorobenzene	122
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

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

	V 002-17 1-100-1-	Percent				
Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria		
Gasoline	mg/kg (ppm)	10	110	61-153		

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)

	Percent					
Analyte	Reporting Units	Spike Level	Sample Result	Recovery MS	Acceptance 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	

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	97	99	73-115	S
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

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.
- i 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.

SAMPLE CHAIN OF CUSTODY ME Ob/04/10 SAMPI PRS (signature) Send Report To M. te City, State, ZIP Bolhe Phone # (425) 403-580 Address 22118 30 Company SLR 401900

	PROJECT NAMENO. PO # Standard (2 Weeks)	101 000/33 00001	REMARKS Photo bold cell somples for SAMPLE DISPOSAL	G Keturn samples Will call with instructions
Staton		1 Ave SE G-302	1608P ALV 119	100 Pax # (405) 400 8458

DATE TIME	COMPANY	PRINT NAME	PR		SIGNATURE	SIGN	L	Friedman & Bruya, Inc.
Do-D	Samples received at							
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		TE TE OV			5715	S. S.		MAS.
Notes	Maphhelene	PH-Diesel Sycoc X by 8021B Cs by 8270 Cs by 8270 HFS	# of containers	Sample Type	Time Sampled	Date Sampled	Lab	Sample ID
			The second second					

SIGNATURE	ished by:	May December	iished by:	d by: m and aw	, A.
Friedman & Bruya, Inc.	3012 16th Avenue West Relinq	Seattle, WA 98119-2029 Received	Ph. (206) 285-8282 Relinq	Fax (206) 283-5044 * Receiv	PORMS/ COUCY COLC DOC
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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

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.

Laboratory ID		SLR International Corp.
006126-01		MW2-40'
006126-02		MW2-55.5'
006126-03	10	MW3-30.5'

All quality control requirements were acceptable.

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)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (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	<2	84

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW2-40'	Client:	SLR International Corp.
Date Received:	06/10/10	Project:	Olympic Water and Sewer
Date Extracted:	06/15/10	Lab ID:	006126-01
Date Analyzed:	06/15/10	Data File:	061510.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

% Recovery: 114

117

124

Client Sample ID:	MW2-55.5'	Client:	SLR Inte
Date Received:	06/10/10	Project:	Olympic
Date Extracted:	06/15/10	Lab ID:	006126-0
Date Analyzed:	06/15/10	Data File:	061511.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM
		Mar. 1	

Operator:	VM	
Lower		Upper
Limit:		Limit:
42		152
36		149

50

SLR International Corp. Olympic Water and Sewer

150

006126-02

061511.D

Concentration mg/kg (ppm)
0.21
< 0.05
< 0.05
< 0.1
< 0.05
< 0.05

Surrogates: 1,2-Dichloroethane-d4

4-Bromofluorobenzene

Toluene-d8

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW3-30.5'	Client:	SLR International Corp.
Date Received:	06/10/10	Project:	Olympic Water and Sewer
Date Extracted:	06/15/10	Lab ID:	006126-03
Date Analyzed:	06/15/10	Data File:	061512.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM
		***************************************	AM # 14 A 17 A 17 A

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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	3	< 0.05
m.p-Xylene		< 0.1
o-Xylene		< 0.05
Naphthalene		< 0.05

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

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

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	e: 006126-03 (Dupli	(Wet Wt)	(Wet Wt)	Relative Percent
Analyte	Reporting Units	Sample Result	Duplicate Result	Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

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

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)

				Percent	
Analyte	Reporting Units	Spike Level	Sample Result	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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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

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.

VSI/CZZ C Return samples TURNAROUND TIME Rush charges authorized by: SAMPLE DISPOSAL U Dispose after 30 days Standard (2 Weeks) O1/01/90 3W RUSH Olympic Worker & Source, Inc (ONSI) 101.00033 0001 #0d Please hold samples for possible SAMPLE CHAIN OF CUSTODY Follow-up annyses 101.000433 000001 SAMPLERS (signature) PROJECT NAME/NO. REMARKS Phone # (435) 408 - 8800 Fax # (435) 403 - 8488 Address 22-118 20TH ME SE, G-202 15086 Send Report To & MIKE STATOW City, State, ZIP Soffiel, WA Company SLR 006126

	as in				-227				ANA	LYS	ANALYSES REQUESTED	red	+	
Sample ID	Eg.	Date Sampled	Time	Sample Type	# of containers	Isasid-H4T	TPH-Gasoline BTEX by 8081B	AOCs by 8260	SVOCs by 8270	HES	مركمه اوالممالعو		7	Charles Wotes M.
MW2-40'	01 A E	01/6/0 AE 6/9/10	0180	Soil	2		X				. \			
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MW3-30.5	03 AE	->	1830	1	2		$\stackrel{\times}{\Rightarrow}$				\		五	*
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044

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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

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.

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

All quality control requirements were acceptable.

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)

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

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

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW4-31	Client:	SLR International Corp.
Date Received:	06/11/10	Project:	Olympic Water and Sewer 101.00433.00001
Date Extracted:	06/17/10	Lab ID:	006145-02
Date Analyzed:	06/17/10	Data File:	061717.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	VM
		**************************************	********

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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	

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank
Date Received: Not Applicable
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: 00734 mb
Data File: 061509.D
Instrument: GCMS5
Operator: VM

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

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank Date Received: Not Applicable 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: 00899 mb Data File: 061711.D GCMS4 Instrument:

VM Operator:

	Lower	Upper
% Recovery:	Limit:	Limit:
101	62	142
100	55	145
99	65	139
	101 100	% Recovery: Limit: 101 62 100 55

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

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)

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

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

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

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

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)

		10000000000		Percent	
Analyte	Reporting Units	Spike Level	Sample Result	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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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

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)

Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
mg/kg (ppm)	< 0.03	< 0.03	nm
mg/kg (ppm)	0.83	0.82	1
mg/kg (ppm)	4.5	4.5	0
mg/kg (ppm)	28	31	10
mg/kg (ppm)	7.4	7.2	3
mg/kg (ppm)	2.3	2.2	4
	Units mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	Units Result mg/kg (ppm) <0.03 mg/kg (ppm) 0.83 mg/kg (ppm) 4.5 mg/kg (ppm) 28 mg/kg (ppm) 7.4	Units Result Result mg/kg (ppm) <0.03

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

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.
- Ic 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.

541000

Address 32118 30th Ac SE, G-303 Phone #(435)402 - 8800 Fax # (475) 403 - 8488 City, State, ZIP Bothell, WA 98021 Company SLR International Corp Send Report To Mike States

/ / / / / / / / / / / / / / / / / / / /	PO#
Olympe Worker & Source, Inc (UNDL) 101.00493. Occol	Wind Fill Coco i

XCIDS II III X	Standard (2 Weeks) Rush charges authorized by:	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
----------------	---	---

ME 06/11/10

	Notes	•	Hotel 6/16/12 M	Hold !				۵,	
RQUESTED			1,077					Samples received at 3	
ANALYSES REQUESTED	TPH-Gasoline TPH-Gasoline TPH-Gasoline TPH-Diesel	X						Sam	
_	# of containers	10		>		T			
	Sample Type	Soil		->					
	Time	08430	1730	1755	9				
	Date Sampled	01 E 6/10/10		\rightarrow	11110				
	Lab ID	O G	AG.	CB AE		-	-		
	Sample ID	MW3-455	18- HMW	MW4-35					

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

37	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
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	Received by:	Phan	T887	0/11/0	1400

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

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

SLR International Corp. MW4-55

006178-01

All quality control requirements were acceptable.

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)

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW4-55 Client: SLR International Corp.
Date Received: 06/15/10 Project: OWSI, 101.00433.00001, F&BI 006178

 Date Extracted:
 06/17/10
 Lab ID:
 006178-01

 Date Analyzed:
 06/17/10
 Data File:
 061705.D

 Matrix:
 Soil
 Instrument:
 GCMS4

Units: mg/kg (ppm) Operator: VM

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank Not Applicable Date Received: 06/17/10 Date Extracted: 06/17/10 Date Analyzed:

Soll Matrix: Units:

mg/kg (ppm)

Client:

SLR International Corp.

OWSI, 101.00433.00001, F&BI 006178

Project: Lab ID: 00736 mb2 Data File: 061704.D GCMS4 Instrument: Operator: VM

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

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

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)

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

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

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

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	O
o-Xylene	mg/kg (ppm)	2.5	100	100	77-124	O
Naphthalene	mg/kg (ppm)	2.5	99	100	60-125	1

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.
- \mbox{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.

SAMPLE CHAIN OF CUSTODY ME 06-15-10

AID P

Send Report To MIKE STATION Company SLR

608.9 18036 Address 33118 20m Ave

Pax#(435)409 - 8458 City, State, ZIP BOTTELL, SSOO Phone #(475) 402 - 3465

Oympic Walter & Source, Inc (CAMSE) ici.co.673.0001 MW4-OB wes force #0d REMARKS Sample M. 5 hers ofter collection SAMPLERS (signature) PROJECT NAME/NO. 101.001/33.00001

Rush charges authorized by: TURNAROUND TIME SAMPLE DISPOSAL X Dispose after 30 days X Standard (2 Weeks) TRUSH

C Return samples
C Will call with instructions

	Notes	Sample trazen Witter cultection						
QUESTED	Sime by horse					8		
ANALYSES REQUESTED	SVOCs by 8270 BPEX, EIX, MTGE, Lightly (in 506) Lightly (in 506)		$\widehat{\times}$	$\hat{\times}$	$\widehat{\times}$	2		
	TPH-Diesel TPH-Casoline BTEX by \$0818-	X	×	×	_ ×	X		
	# of containers	72	11			->		
	Sample Type	Soil	WATER			->		
	Time Sampled	0101	091	1339	(355	1551		
	Date Sampled	AE 6/11/10 1010	012 KG/14/10			>		
	Lab UD	OFF	4. K	03 AIC	24	84 7		
	Sample ID	MW4-55	MW4-0610	MW3-0610	MWZ- 0610	MW1-0610		

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

TIME W:15 S DATE 6/15/10 Samples received at A COMPANY · (A) 25 PRINT NAME CE HRIS SIGNATURE Relinquished by: Relinquished by: Received by: Received by:

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

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	SLR International Corp.		
006178-02	MW4-0610		
006178-03	MW3-0610		
006178-04	MW2-0610		
006178-05	MW1-0610		

All quality control requirements were acceptable.

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)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (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	<100	108

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

MW4-0610

Date Received:

06/15/10 06/23/10

Date Extracted: Date Analyzed:

Matrix: Units:

06/23/10 Water

ug/L (ppb)

Client:

SLR International Corp.

Project:

OWSI, 101.00433.00001, F&BI 006178

Lab ID:

006178-02 006178-02.063

Data File: Instrument:

ICPMS1

Operator:

AP

Lower

Upper

Internal Standard:

Germanium

% Recovery:

104

Limit: 60

Limit: 125

Concentration

Analyte:

ug/L (ppb)

Lead

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

MW3-0610

Date Received:

06/15/10

Date Extracted:

Internal Standard:

06/23/10 06/23/10

Date Analyzed: Matrix:

Units:

Water

ug/L (ppb)

Client:

SLR International Corp.

Project:

OWSI, 101.00433.00001, F&BI 006178

Lab ID:

006178-03

Data File:

006178-03.066 ICPMS1

Instrument: Operator:

AP

Lower

% Recovery:

92

Limit:

Upper Limit:

60

125

Concentration

Analyte:

Holmium

ug/L (ppb)

Lead

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

MW2-0610

Date Received:

06/15/10

Date Extracted: Date Analyzed:

06/23/10 06/23/10

Matrix: Units:

ug/L (ppb)

Water

Client:

SLR International Corp.

Project:

OWSI, 101.00433.00001, F&BI 006178

Lab ID: Data File:

006178-04

Instrument: ICPMS1

006178-04.067

Operator:

AP

Internal Standard:

Holmium

% Recovery:

90

Lower Limit: 60

Upper Limit:

125

Concentration

Analyte:

ug/L (ppb)

Lead

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

MW1-0610

Date Received:

06/15/10 06/23/10

Date Extracted: Date Analyzed:

Internal Standard:

06/23/10

Matrix: Units:

Water

ug/L (ppb)

Client:

SLR International Corp.

Project:

OWSI, 101.00433.00001, F&BI 006178

Lab ID:

006178-05

Data File:

006178-05.068 ICPMS1

Instrument: Operator:

AP

Lower

Limit:

Upper Limit:

60

125

Concentration

% Recovery:

92

Analyte:

Holmium

ug/L (ppb)

Lead

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:

Method Blank

Date Received:

NA

Date Extracted: Date Analyzed:

06/23/10 06/23/10

Matrix: Units:

Water

ug/L (ppb)

Client: Project: SLR International Corp.

OWSI, 101.00433.00001, F&BI 006178

Lab ID: Data File: I0-319 mb 10-319 mb.061

Instrument: ICPMS1

Operator:

AP

Lower

Upper

Internal Standard: Holmium

% Recovery:

92

Limit: 60

Limit: 125

Concentration

Analyte:

ug/L (ppb)

Lead

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW4-0610	Client:	SLR International Corp.
Date Received:	06/15/10	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/18/10	Lab ID:	006178-02
Date Analyzed:	06/19/10	Data File:	061832.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

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

4-Bromofluorobenzene	108
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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW3-0610	Client:	SLR International Corp.
Date Received:	06/15/10	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/18/10	Lab ID:	006178-03
Date Analyzed:	06/19/10	Data File:	061833.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM
100		*	T.T

		Lower	Upper
urrogates:	% Recovery:	Limit:	Limit:
,2-Dichloroethane-d4	99	63	127
oluene-d8	98	65	127
-Bromofluorobenzene	106	69	127
,2-Dichloroethane-d4 oluene-d8	99 98	63 65	

4-Bromofluorobenzene	106
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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW2-0610	Client:	SLR International Corp.
Date Received:	06/15/10	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/18/10	Lab ID:	006178-04
Date Analyzed:	06/19/10	Data File:	061834.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM
	100 467 (0.104 (80)000)	and the second s	

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

ient Sample ID:	MW2-0610
	06/15/10
ate Extracted:	06/22/10
ate Analyzed:	06/22/10
atrix:	Water
nits:	ug/L (ppb)
	ate Analyzed: atrix:

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

W. Workship	03720000000000000	Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	108	69	127
Carlotter Control and Control	Concentration		
Compounds:	ug/L (ppb)		
Methyl t-butyl ether (MTBE)	<100	5	

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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW1-0610	Client:	SLR International Corp.
Date Received:	06/15/10	Project:	OWSI, 101.00433.00001, F&BI 006178
Date Extracted:	06/21/10	Lab ID:	006178-05
Date Analyzed:	06/21/10	Data File:	062109.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM
		Lower	Lipper

rose Vi		Lower		Upper
Surrogates:	% Recovery:	Limit:	150	Limit:
1,2-Dichloroethane-d4	98	63		127
Toluene-d8	101	65		127
4-Bromofluorobenzene	102	69		127

4-Di omoridoi oberizerie	102
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

ENVIRONMENTAL CHEMISTS

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
		100	MADE TO ACCOUNT

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

107
Concentration ug/L (ppb)
<1
<1
<1
< 0.35
<1
<1
<2
<1
<1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank
Date Received: Not Applicable
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: 00904 mb

Data File: 062107.D

Instrument: GCMS5

Operator: VM

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

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank
Date Received: Not Applicable
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: 00905 mb
Data File: 062207.D
Instrument: GCMS5
Operator: VM

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

Concentration Compounds: 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

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 µg/L (ppb)

Sample ID Laboratory ID		EDB
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

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 TRU AS CASOLINE

TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 006157-04 (Duplicate)

Analyte	Reporting Units	Samp		plicate esult	Relative Percent Difference (Limit 20)
Gasoline	ug/L (ppb)	<100) -	<100	nm
Laboratory Code:	Laboratory Cor	itrol Samp	ole Percent		
Analyte	Reporting Units	Spike Level	Recover y LCS	Acceptanc Criteria	e
Gasoline	ug/L (ppb)	1.000	95	70-119	<u></u> //

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

-	400 000	5786 1049	Percent	
Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Lead	ug/L (ppb)	10	110	67-135

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)

		Percent			
Reporting Units	Spike Level	Sample Result	Recovery MS	Acceptance Criteria	
ug/L (ppb)	50	<1	100	56-135	
ug/L (ppb)	50	<1	96	68-132	
ug/L (ppb)	50	< 0.35	105	71-120	
ug/L (ppb)	50	<1	100	68-131	
ug/L (ppb)	50	<1	100	77-127	
ug/L (ppb)	50	<1	103	69-129	
ug/L (ppb)	100	<2	105	72-128	
ug/L (ppb)	50	<1	111	67-133	
ug/L (ppb)	50	<1	112	40-166	
	Units ug/L (ppb) ug/L (ppb)	Units Level ug/L (ppb) 50 ug/L (ppb) 100 ug/L (ppb) 50	Units Level Result ug/L (ppb) 50 <1	Reporting Units Spike Level Level Result Recovery MS ug/L (ppb) 50 <1	

Analyte	Reporting Units	Spike Level	Recovery LCS	Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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

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)

				rercent	<u> </u>	
Analyte	Reporting Units	Spike Level	Sample Result	Recovery MS	Acceptance 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	
1 MR 640 1.0 (#) (*********************************						

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	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

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

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

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

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

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.
- i 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.

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SAMPLE CHAIN OF CUSTODY ME 06-15-10

NS1/13/ AZE B

SAMPLERS (signature)

PROJECT NAMENO.
Oympic Wilder & Somer, Inc (CUMSL) 101.00433.0001 MW4-55 ws form REMARKS Sample MI 5 hours offer collection 101.001/33.00001 6.309 Send Report To MIKE STATON

Address 33114 20m Are SE

Company SLR

Fax # (435)409 - 8488

Z/A

City, State, ZIP BOTTELL. S800 Phone #(495) 400 - 4960

TURNAROUND TIME Rush charges authorized by: XStandard (2 Weeks) CRUSH

SAMPLE DISPOSAL X Dispose after 30 days

C Will call with instructions

	Notes	somple tazen after collection							
ANALYSES REQUESTED	BTEX by 80618 VOCs by 8260 SVOCs by 8270 HPS PIEX, EIX, MIRE HOSHIMING C, 5060 HOSHIMING C, 5060 HOSH	X			XXXXX	X			
	oon lain of arminers TPH-Diesel	S ×	× =	×	×	×			
	Sample Type or	Soil	WATER			->			
	Time Sampled	0/0/	1150	BEB	1355	1451			
	Date Sampled	Of Chilo				>			
	Lab	OF	7.4 X.4	03 AIC	25 7	A A A		-	
	Sample ID	MWH-55	MW4-0610	MW3-0610	MW7-0610	MW1- 0610			*

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

Relinquished by:

Received-by:

Received by:

TIME 14:15 1. 17

DATE 6/15/10

COMPANY

PRINT NAME

SIGNATURE

Reimquished by:

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Samples received at

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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

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.

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

All quality control requirements were acceptable.

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)

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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW1-1010	Client:	SLR International Corp.	
Date Received:	10/21/10	Project:	Olympic Water & Sewer, Ir	
Date Extracted:	10/28/10	Lab ID:	010249-01 1/10	
Date Analyzed:	10/29/10	Data File:	102824.D	
Matrix:	Water	Instrument:	GCMS5	
Units:	ug/L (ppb)	Operator:	VM	
		Louise	Linnar	

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

Compounds:	Concentrat ug/L (ppl	
Benzene	520	
Toluene	140	
Ethylbenzene	110	
m,p-Xylene	71	
o-Xylene	150	
Naphthalene	. 15	

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW2-1010	Client:	SLR International Corp.
Date Received:	10/21/10	Project:	Olympic Water & Sewer, Inc.
Date Extracted:	10/29/10	Lab ID:	010249-02 1/10
Date Analyzed:	10/30/10	Data File:	102929.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW3-1010		Client:	SLR International Corp.
Date Received:	10/21/10	95	 Project:	Olympic Water & Sewer, Inc
Date Extracted:	10/29/10		Lab ID:	010249-03
Date Analyzed:	10/30/10		Data File:	102928.D
Matrix:	Water		Instrument:	GCMS5
Units:	ug/L (ppb)		Operator:	VM

	Lower	Upper
% Recovery:	Limit:	Limit:
100	63	127
92	65	127
92	69	127
	100 92	% Recovery: Limit: 100 63 92 65

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

ENVIRONMENTAL CHEMISTS

Client Sample ID:	MW4-1010	Client:	SLR International Corp.
Date Received:	10/21/10	Project:	Olympic Water & Sewer, Inc
Date Extracted:	10/28/10	Lab ID:	010249-04
Date Analyzed:	10/29/10	Data File:	102827.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

ENVIRONMENTAL CHEMISTS

	원님 아이 있다는 그를 사이지 하게 하게 하게 되었다.	물리 바쥬에 가는 원래로 열리 되었습니다. 하는 사람들은 생각이 되었다.	
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
	The state of the s		Y Y

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

ENVIRONMENTAL CHEMISTS

SLR International Corp. Olympic Water & Sewer, Inc

001708 mb 102817.D

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

		Lower	Upper
Surrogates:	% Recovery:	Limit:	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

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

	Work to a substitution		Percent	
Analyte	Reporting Units	Spike Level	Recover y LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	99	70-119

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	Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	50	660 ve	0 Ь	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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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	O

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)

				Percent	
Analyte	Reporting Units	Spike Level	Sample Result	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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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

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.

010249

Send Report To MIKE STATON

Company SLR INTL CORP

SAMPLE CHAIN OF CUSTODY

ME 10-21-10

SAMPLERS (signature)

PROJECT NAME/NO.

Olympe Maler & Sewer, Inc.

REMARKS

Pax # (425)402 - 8488

101:00433.00001

Address 22118 20th Ave SE, G-202

WA

City, State, ZIP Somen

Phone # (435) 403 - 8800

TURNAROUND TIME

Standard (2 Weeks)

RUSH
Rush charges authorized by:

PO#

SAMPILE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

L. WIII CALI WINE INSTRUCTION

ANALYSES REQUESTED	Sample Type TPH-Gasoline TPH-Gasoline SVOCs by 8270 TPH-Gasoline SVOCs by 8270 HFS GUEX & corbibitions SUCE & corbibitions SUC	WATER 6 X X	X O	X 9				3º # 11.0i.	odmines received at
	Time	1511	あるる	tac)	1359				
	Date Sampled	1151 0/00/01 1511			\rightarrow			o je te	
	Lab	N. W.	OF STATE	03 R.F.	Z.W.Z	,			-
	Sample ID	0101-1MW	0101 - EWM	MW3-1010	0101 - HMW			- Hite	

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

SIGN	APORE.	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	1	CHRIS LEE	SUR	1 01/10/01	1:42 pm
Received by: A.7(Jagan	Site Logueri	Champier	10-21-10 1 46 pm	"YLPA"
Relinquished (E. []	Skierium	July Conflict	Chambera	1 31-10	ir E
Received by:	Gud 6.15	Alhan Phan	FIBI	10/12/01	7

APPENDIX D WATER SUPPLY WELL LOGS

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

		-				11111	-	-		-	_	_		-
	Producing Formation	Sand and Gravel	Sand and Gravel	Sand and Gravel	Sand and Gravel;	Pebble Conglomerate	Gravel	Sand and Gravel	Sand and Gravel	Sandy Clay and Gravel	Sand and Gravel	Gravei	Sand and Gravel	NA
0.0000000000000000000000000000000000000	StaticWater Level (ft. bgs)	108	69.5	144.5		158.9	118	136	133	191	226.5	114	201	142.65
	Open (ft. bgs)	NA	Y	18			157	176	178	211.5		193		NA
	Screen Depth (ft. bgs)	203-208	214-224; 240-245	0-241	315.5-329.7;	361.3-377.1	None	None	None	None	270-276	None	285-290	NA
Casing	Depth (it. bgs)	0-203	0-214;	241-257	0-315.5;	361.3	0-157	0-176	0-178	0-211.5	0-270	0-193	0-285	NA
Total	Depth ft. bgs)	208	245	257		546	157	176	178	211.5	276	133	290	205
	Well Use (ft. bgs)	Domestic	Domestic	Domestic		Domestic	Domestic	Domestic	Domestic	Domestic	Domestic	Domestic	Domestic	Domestic
	Well Owner's Name (at time of installation)	Blaine Shaffer	Pope & Talbot Development, Inc.	Pope & Talbot Development, Inc.	Pope & Talbot	Development, Inc.	Richard Werner	Ross Witter	Ross Witter	Ruth Altis	Chris Baschab	Frank Woodruff	R.T. Moran	John Wemer
	Range	16	16	1E	à	#	1E	1E	1E	非	Æ	1	1	北
	Quarter Section Township Range	28N	28N	28N		28N	28N	28N	28N	28N	28N	28N	28N	28N
	Section	8	80	89		00	8	8	8	8	8	8	8	8
	Quarter	SE	SE	NE		SW	SE	SE	SE	SW	SW	SW	H	SE
	Quarter	NW	SW	SE		SE	NW	NW	NW	H	H	H	\$ 1/2	NW
SLR	Designated Number	+	2	က		4	5	9	7	60	o	10	11	12

The well construction details in this table are based on Washington Department of Ecology or Olympic Water & Sewer, Inc. records. NA= Information not available.

File original and first copy with Department of Ecology

Temp. of water:

WATER WELL REPORT

STATE OF WASHINGTON

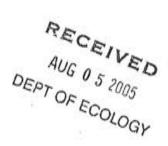
Start Card No. WE03667 UNIQUE WELL I.D. # AGS283 Water Rights Permit No.

Third Copy - Driller's Copy	16868	٥	TAIL OF W	Water Rights	Permit No.
(1) OWNER: Name: BLA			Add	ess: 425 SHINE RD., PORT LUDLOW, WA	98365
(2) LOCATION OF WELL		RSON		W 1/4 of the SE 1/4, Sec. 8, Twnsp 28 h	
(2a)STREET ADDRESS C	F WELL (or neare:	st address	804 WALKER	WAY, PORT LUDLOW, WA 98365	NO NAME OF STREET
(3) PROPOSED USE:	□ Domestic	Test well		(10) WELL LOG or	
		Municipa	al	ABANDONMENT PROCEDURE	SESCRIPTIO
	Dewater	Other		ABANDONMENT PROCEDURE)E3GKIF 110
(4) TYPE OF WORK:	Owner's number of w	eli(if more than		Formation: Describe by color, character, siz.	e of material and
Abandoned X New		C Oug	☐ Bored	structure, and show thickness of aquifers and	d the kind and no
Maria 17 (17 (17 (17 (17 (17 (17 (17 (17 (17	pened	Cable	Driven	of the material in each stratum penetrated, w each change of formation.	ith at least on e
	onditioned	Rotary	☐ Jetted	The state of the s	55000
(5) DIMENSIONS:	Diameter of well:	6 inches		MATERIAL	FROM
Drilled 208 feet	Depth of comp	leted well 2	208 feet	BROWN HARDPAN	0'
(6) CONSTRUCTION DET	**************************************	0 8 10	203 ft.		671
Casing Installed:	6 in. diam. from in. diam. from	O ft. to		BROWN SAND & GRAVEL	67'
Liner Installed	in, diam, from	ft. to		GRAY HARDPAN	102'
Threaded	in, diam, from	ft. to		PROMINIOU AV	108'
	ere perforations made		- 11.	BROWN CLAY	108
Perforator type:	ara pariorationa mada			BLUE CLAY	125'
Size of perforation:	in, by:	in,		BROWN CLAY	144'
Perforations from	m: ft. to	ft.		A	
Perforations from	m: ft. to	n.		GRAY SAND W/B	189'
Screens: X Scr	eens installed			BROWN CLAY	192'
Manufacturer's name:	Johnson			GRAY SAND & GRAVEL W/B	199'
Type: Telescoping				GRAT SAND & GRAVEL W/B	100
Diam. 6 in. slot s	ize .016 from	203 ft. to	208 ft.		1
Diam. in. slot s		ft. to	n;		
Gravel: Tyes	Size of gravel:	in.			
Gravel Placed from:	ft. to	ft.	10 0		
[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		what depth?:	18 ft.	Pr.	
	entonite	2		L C E	
Did any strata contain unu				1	IVE
Type of water:	Depth	of strata:	ft.	n AUG 0 s	CD
Method of sealing strata:	- comp. Coulds			RECE AUG 0 5 DEPT OF ECO	2005
7) PUMP: Manufacturer	s name: Goulds	HP: 1		OFEC	_
Type: Submersible	Land-surface eleva	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN			DLOGN
8) WATER LEVELS	above mean sea-le		ft.	1.57	-GY
Static level: 108 ft.	pelow top of well	Date: 6	/21/2005		
Artestian pressure:	PSI	Date:	12.000		
Artesian water is controlle	2000				
9) WELL TESTS Drawd	own is amount water leve	is lowered belov	w static level.		
Was a pump test made?	X Yes, by: Don Lo	ofall		Work started: 6/13/2005 Work co	mpleted: 6/20
Yield: 15 GPM wit	있다. 그리아 크리트(1111)(1577)	awdown after	1.5 hrs	WELL CONSTRUCTOR CERTIFICATION:	
Yield: GPM wit		awdown after	hrs	i constructed and / or accept responsibility	for construction
Recovery data (time taken as			77.52	well, and to the compliance with all Washin	
measured from well top to wa	(Fig. 2005) (1907)			standards. Materials used and the informat true to my best knowledge and belief.	ion reported abo
Time level	Time (evel	Time	Water level	and to my book movings and benefit	
	Time level	Time	iover	Contractor: LOFALL WELL DR	ILLING
10 min. 108'					
Date of the Control	10006			Address: 180 NW Lofall Rd, Poulst	o, WA 9837
	2005	traveleur - 6 -		() , , , ,	
	여성없이다다는 거리장 1951)	drawdown after ft. for	101 (1977)	Signed: Karman & Douly	License # 14
Air test: GPM Artesian flow: GPM	with stem set at Date:	ic for	hrs.	(Well Driller)	TI .
Altegran now, GPW	L'atte.		ADJUST TO RECEIVE SIGNATURE SIGNATUR	Contractor's'	

(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 on entry for each change of formation.

MATERIAL	FROM	то
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'	?
	1 1	



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

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.

Registration No: LOFALWD124C5

Contractor's

Was a chemical analysis made? EX Yes

Date: 7/12/2005

. ...

•

DEPARTI	ATE OF WASHINGTON MENT OF CONSERV ON OF WATER RESOUR	CES		
WELL SCHEDULE	197.5 No.	28,1E_8	3T 1	
Record by A. Willia		1		· · · ·
Source	· · · · · · · · · · · · · · · · · · ·	1-27-1-1		
Locations State of WA County Je Fey's Area Map SV 15 F 14 sec 8	TZON, BICE	DIAGRAM OF SEC	TrioN	
Details	11-2			
2. Owner or Tenants Po	of Ludow De	OH No.		
3. Dritten	Addose	nel	-	`` ', ' '
4. Land-surface datum:	below			T. Harrier
5. Types Dug Drilled Bored Jetted Date 6. Cashage Diam. 211	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Rost Moss	foot	
7. Chief noulfer(s)t	2 5 1 2 21 Sem	above 4	ft	÷
8. Water levels Rept.	70 which	is the below	datum	. ,
9. Pumpi Type Sori	Capacity—Sixe	gal. min.		
10. Yields Flow	pal. min. Pump /60	gal min. Meas R	Est.	!
Drawdown 42.5		pumping	pd: mln.	· 'Y
11. Use: Dom. Stock.				.,
12. Quality: Sample No Taste, color, hardness	, sanitation, etc.	, 19 Temp		
13. Other datas Log Wa	ter levels Draft Pump	test Analyses		· · · · · · · · · · · · · · · · · · ·
	ware, eve.			

PORT LUDLOW	• 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2
REFERENCE NO. 10 Well Data Su	- Community	
LOCATION: TZB R /E 800. B 1/4 1/4 KQ LAND SURFACE 300 B DEPTH 245 D ELEVATION VER	ATE VER OOOE	
WELL OWNER: POPE TALBOT DEVELOPM	ENT, INC.	
OWNER'S DESIGNATION WELL Z, N USE DRILLING		
INFORMATION -	CARLE	
DRILLED BY STOICAN CASING SIZE (8)	214-224	
COMPLETION MODE SCREEN COMPLETION ZONE	(6) 240 - 245	**
VIELD 15.8 A SPECIFIC CAPACITY	3.0 A	
SWL 67.2 18 DATE 11/1968	CODE	
AQUIFER TRANSMISSIVITY 15,000 3	1	
VER.CODE		1/4 KQ
BTORAGE COEFFICIENT	2	229
OTHER WATER BEARING ZONES PENETRATED		
	327	
		1
MAJOR AQUICLUDES PENETRATED		
	67.0 B 11/71	
POST CONSTRUCTION SWL MEASUREMENTS WITH DATES	67.0 B 11/-71	(0)
69.2 B 8/21/75		
VER. CODE	VER. CODE	
DETAILED SUPPLEMENTARY FILES		
PUMP TEST DATA FILE		
ANADAN ANADAN ETANAN ANADAN	37	######################################
GEOLOGIC LOG SEE CACK		
WATER CHEMISTRY		*
ANALYSIAS PERMENSALINGUTA THE STATE OF THE S	200 A	
REMARKS 11/71 Q/A = 4.0 @ 1 HR.	S AND 160 gem.	
11/71 TEMP 49:12 , pH = 7:4 , HAR	0 = 70 . Fe = 0.3	H. S = SLIGH
Mr = .16		
- 781 Walker Way	1	8
/ CI (VOINCE)	I am a second se	- Aller - Table Control
	1	-00-104607-04

ROBINSON & HOBLE, INC.

" \(\frac{1}{2}\)	Beer Siller	1		g.	
Brewn Hard Son title Some Reeks		Seale 1" Per	·	rg Siscon (Vay	
409.00		15/1 & Brill	Ţ	205012	Vin Inter
Brewer Chay	Statio haterlands by Fr	11 0 H 010"	Weir Serie	Microsof Fa	Control Control
Lyen M. Comented Sank + Grovet guster			236 VI	1	10000000000000000000000000000000000000
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297111 L	180		Nectify Sand + 6	1.5.05 1.05 inexes	Marrie diam
Brown Shay Brief With Blue Chay			24571 3	<u>"</u>	
19911 Couliness.	-		July D	Derth Top pth 11pg midelal	Car.
	6.5	3			120

WELL #=

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Appl. 10445 Per. 9874

WELL LOG

STATE OF WASHINGTON DEPARTMENT OF CONSERVATION DIVISION OF WATER RESOURCES

cord 1	- AMAGUMON	1000	\sim
cation:	State of WASHINGTON		
Cour	ty. Jefferson		1
Map			1
WASE	1/4 NE 1/4 sec. 8 T 28N, R 1 E	agram of 2	iection
rilling	Co. L.R. Gaudio		*** * * *
-Add	Co. L.R. Gaudio Tacoma, Washington- ress.		·
Met	hod of Drilling Date Pope & Talbot Development Inc.		, 19
wner	Pope & Talbot Development Inc.		
Add	ress 113 Dexter Ave. MM Seattle	WA	98109
and en	rface, datumft above		
and su	144.5 Date Nov. 18 , 19.68 D	ims.:8!	x 257
5W L:	ALL INC.		
CORAB-	NATERIAL	From	(tent)
LATION	MATERIAL nacribe d'iller's terminology literally but paraphrase as no al water-bearing, an state and record static level if report desurince datum unless otherwise indicates. Correlate with the following log of materials, list all casings, perforations,	(feet) (feet) (costury, in ted. Give d is stratigre arrows, etc	(Cent)
LATION	nacribe d'iller's terminology literally but paraphense as na al water-bearing, an state and record static level if report d-surface datum unless otherwise indicated. Correlats wit Pollowing log of materials, list all casings, perforations,		(Cent)
LATION	nacribe driller's tarminology literally but paraphrase as not all water-bearing, an exule and record static level if report desurface datum unless otherwise indicates. Forestate with Following log of materials, list all casings, perforations, Community domestic supply		(Cent)
LATION	nacribe driller's thiminology literally but paraphysis as no all water-bearing, so state and record static level if report d-surface datum unless otherwise indicated. Correlate with Pollowing log of materials, list all casings, perforations, Community domestic supply hardpan	evisury, in ted. Give d h stratiers	parenthese epths in fe phic colum
LATION	nacribe driller's thrminology literally but paraphysis as not all water-bearing, an state and record static level if report desurface datum unless otherwise indicates. Forestate with Following log of materials, list all casings, perforations. Community domestic supply hardpan clay, sand, gravel	evisury, in red. Give d h stratiers acreens, etc	parenthese opths in fe phic colum
LATION	nacribe driller's thiminology literally but paraphysis as and a water-bearing, an estate and record static level if report descrince datum unless otherwise indicate Correlate wit. Following log of materials, list all casings, perforations, Community domestic supply hardpan clay, sand, gravel hardpan	oversury, in ted. Give d b stratters acrons, etc	parenthese epths in fe phile column.
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LATION	cacribe driller's thiminology literally but racaphysise as no all water-bearing, so state and record static level if report desurface datum unless otherwise indicates. Correlate with Following log of materials, list all casings, perforations. Community domestic supply hardpan clay, sand, gravel hardpan clay, sand hardpan clay, sand	O 34 39	parenthese epths in fe sphie column
LATION	cascribe driller's terminology literally but paraphyses as no at water-bearing, so state and record static level if report describe datum unless otherwise indicates. Correlate with Following log of materials, list all casings, perforations. Community domestic supply hardpan clay, sand, gravel hardpan clay, sand hardpan clay, sand sand sand sand sand sand sand sand	O 34 39	parenthese epths in fe sphie column
LATION	cacribe driller's thirminology literally but paraphysise as no all water-bearing, so state and record static level if report desurface datum unless otherwise indicates. Correlate with Pollowing log of materials list all casings, perforations. Community domestic supply hardpan clay, sand, gravel hardpan clay, sand hardpan clay, sand sand sand, sand sand sand, gravel, some clay binder small amount of water 80-82.	0 34 39 48 57	parenthese epths in fe phie column.) 34 39 48 57
LATION	cacribe driller's thiminology literally but racaphysise as no all water-bearing, so state and record static level if report desurance datum unless otherwise indicates. Correlate with Following log of materials, list all casings, perforations. Community domestic supply hardpan clay, sand, gravel hardpan clay, sand hardpan clay, sand sand sand sand sand sand sand clay binder small amount of water 80-82 clay, silt & sandy wet peat	occassary, in code discovery, in code Give de la signatura a froma, etc. 34 39 48 57	34 39 48 57 80
LATION	cacribe driller's thiminology literally but paraphyses as no all water-bearing, so state and record static level if report describes datum unless otherwise indicates. Correlate with Following log of materials list all casings, perforations. Community domestic supply hardpan clay, sand, gravel hardpan clay, sand hardpan sand, gravel, some clay binder small amount of water 80-82 clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt	0 34 39 48 57 80 128 142	34 39 48 57 80 128 142 162
LATION	clay, sand hardpan clay, sand hardpan sand, gravel, some clay binder small amount of water 80-82 clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt clay, silt clay, gravel some sand	0 34 39 48 57 80 128 142 162	34 39 48 57 80 128 142 162 186
LATION	clay, sand hardpan clay, sand hardpan clay, sand sand, gravel sand, gravel, some clay binder small amount of water 80-82 clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt clay, silt clay, silt clay, sand	0 34 39 48 57 80 128 142 162 186	34 39 48 57 80 128 142 162 214
LATION	clay, sand hardpan clay, sand sand, gravel sand, gravel, some clay binder small amount of water 80-82 clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt & water 80-82	0 34 39 48 57 80 128 142 162 186 214	34 39 48 57 80 128 142 162 123
LATION	clay, sand hardpan clay, sand hardpan clay, sand sand, gravel sand, gravel, some clay binder small amount of water 80-82 clay, silt & sandy wet peat clay, silt & sandy wet peat clay, silt clay, silt clay, silt clay, sand	0 34 39 48 57 80 128 142 162 186	34 39 48 57 80 128 142 162 214

CORRE- LATION	MAYRKAL	From (feet)	To
	Depth forward		- (feet
_	sand, gravel water	24.5	+
-	clay, blue grey	245 255	-
-	Casing: 8" from 0' to 241!	433	25
-	COOK at rainia		+
-	8" slot size IO from 241	to	246
-	8 Slot size 80 from 04	-	257'
-1	Duttace Seal.		- Company
-	Tump cest: 88 com with and -1	aft.	1
-	Pump: Gould, submersible 20 H	P	brs
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	DS—12-65.	-	

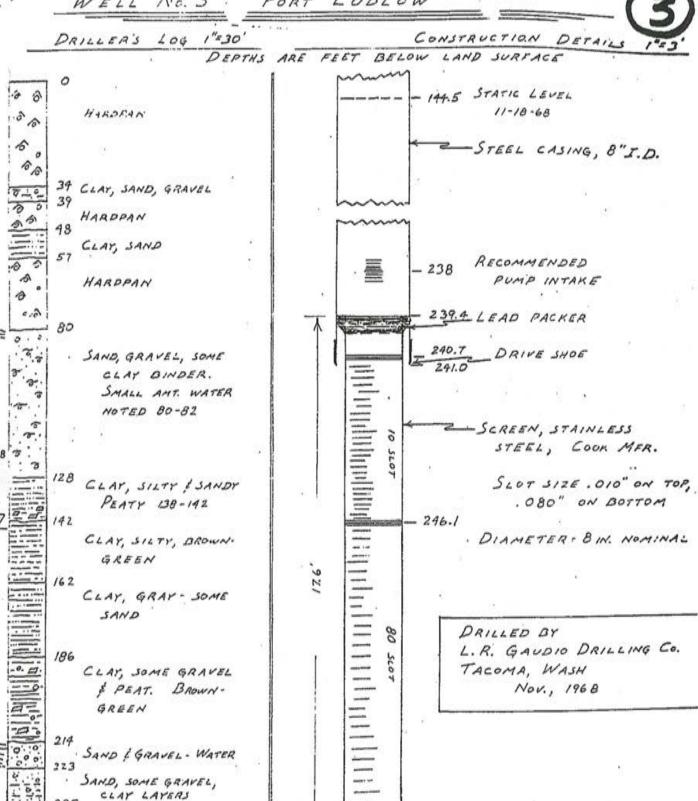
PORT LUDLOW REGION Well Data Summary REFERENCE NO. LOCATION: T 28 R /F Boc. 8 1/4 1/4 HI B DEPTH 257 DATE CODE 1968 LAND SURFACE 380 ELEVATION TALBOT DEVELOPMENT INC WELL OWNER: POPE OWNER'S DESIGNATION WELL'S, N USE DRILLING INFORMATION SOURCE R+N 01-82 METHOD CABLE DRILLED BY GAUDIO CASING BIZE (8) 8 COMPLETION MODE SCREEN COMPLETION ZONE (6) 241- 257 SPECIFIC CAPACITY 2.3 PR. YIELD 88 DATE 11/18/68 8WL 144.5 AQUIFER TRANSMISSIVITY 1/4 1/4 H STORAGE COEFFICIENT VER.CODE OTHER WATER BEARING ZONES PENETRATED MAJOR AQUICLUDES PENETRATED POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 152 B 11/71 VER. CODE VER. CODE DETAILED SUPPLEMENTARY FILES PUMP TEST DATA FILE RIN FILE GEOLOGIC LOG SEE BACK WATER CHEMISTRY TEMP = 51 F, pH = 7.5, HARD = 102, C1 = 6 Fe = 0.4, H2S REMARKS 11/71 Q/4 = 2.0 @ 107 9pm @ 14x. STRONG 71 Fe = 0.1, HOSE SLIGHT, Mr. = .13

FIELD SCHEDULE

MBS RECORD BY:

ROBINSON & NOBLE, INC.

PORT LUDLOW



POPE & TALBOT, INC

SAND, GRAVEL, WATER -. CEMENTED LAYERS

SAND, GRAVEL, WATER

257 CLAY, BLUE-GRAY

SEATTLE: WASH.

235

ROBINSON, ROBERTS, É-ASSOC. GROUND WATER GEOLOGISTS TACOMA WALLINGTON

257

Nov. 21, 1968 J. B. Noble

POPE AND TALBUT DEVELOT WEST



Well Data Summary	
P 16	3
AND SURFACE 2//0	980
ELL OWNER: POPE AND TALBOT DEVELOPMENT	,/NC.
WHER'S DESIGNATION WELL 4N USE	
FORMATION SOURCE R+N 79-81 METHOD CAGLE	
CASING SIZE (B) /2 X 3/5	.6 000.
OMPLETION MODE SCREEN COMPLETION ZONE (8) 315.	3-377.1 10+30 SLOT
WL 158.9 REC. B DATE 4/28/80	VER
WL	
QUIFER TRANSMISSIVITY 3030 + 4280	1/4 1/4 P
STORAGE COEFFICIENTVER.CODE	***************************************
OTHER WATER BEARING ZONES PENETRATED	
MAJOR AQUICLUDES PENETRATED	
ANJON AGGIOLOGIC TOTAL	
POST CONSTRUCTION SWL MEASUREMENTS WITH DATES 154	A 5/8/80
	The second secon
VER. CODE VER. CODE	VER. CODE
DETAILED SUPPLEMENTARY FILES	
PUMP TEST DATA FILE R+N 79-81 W/ RE COUER	Y HYDREBAPH
GEOLOGIC LOG SEE BACK	
WATER CHEMISTRY R-N 79-81 OK	
Walden Lane (westerly	oxtension "
Malaen lane (100)	
of Walkin Way	
The state of the s	
☐ REVIEW	

YYATEK WELL KEPUKI STATE OF WASHINGTON

whhere	ниц	410.	-
Permit	No.		-

ut	No.	 	 4

() OWNER: Name Pope & Talbot Development.Inc.	Address P.O. Box 75. Port Ludlow, WA	98365	
LOCATION OF WELL: County Jefferson	SE N SW N sec 8 - 28	N. R.	E www.
ng and distance from section or subdivision corner	·····································	in the law of the same	English II.
PROPOSED USE: Damertic [] Industrial [] Municipal [(10) WELL LOG:		TELEVISION . "
Errigation Test Well Other	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of a stratum penetrated, with at least one entry for each c	and structer transport of 1	ture, and U in each ormation.
TYPE OF WORK: Owner's number of well 4N	MATERIAL	FROM	TO ·
New well 1 Method: Dur C Bored C	brown to gray till	0	52
Despened Cable Driven Reconditioned Reconditioned Reconditioned	brown, sandy, pebbly silt	.52	131
	sand and gravel	131	151
) DIMENSIONS: Diameter of well 12 inches.	brown silty sand and gravel	151:	157
Dittled 546 ft. Depth of completed well 38814 ft.	gray sandy silt	157	171
ACAMETRICATION DEPOSIT OF	gray pebbly silt	171	267
) CONSTRUCTION DETAILS:	gray poorly sorted silty sand		
Casing installed: 12 "Diam from 0 ft. to 3151s. ft.	and gravel	267	269
Threaded [] 10 "Diam. from 3291s. ft. to 361 ft.	gray pebbly silt	269	314
Welded 21 _10_" Diam. from 378_ ft. to 3881; ft.	brown, poorly sorted medium to		
Perforations: Yes Cl No d	coarse sand and gravel	314	332
Type of perforator used	gray pebbly silt	332	360
SIZE of perforations in, by in.	gray sand and gravel	360	366
perforations from ft. to ft.	gray silty sand with some gravel	366	380:-
perforations fromft. toft.	gray clayey silt	380	536
, , , , , , , , , , , , , , , , , , ,	weathered pebble conglomerate	536	544
Screens: Yes No UOP Johnson	grav pebble conglomerate (bedrock	0.544	546
Manufacturer's Name UOP JOHNSON			
Pipe Size			
Diam. 10 Slot size 080 - 100 361 st. to 378 st.	f 444 + 4 444 + 1 11 11 1		
	the state of the s	1	
Gravel packed: Yes O No & Size of gravel:	The state of the s		
Gravel placed fromft. toft.	M. DECEIVETT		
Surface seal: Yes 2. No C . To what depth? 20 ft.	KEULITE	1	
Material used in real cement			
Did any strata contain unusable water? Yes [] No	1980 אנונ	· ·	
Type of water? Depth of strats			-
Method of sealing strata off	DEPARTMENT OF ECOLOGY	e o :	-
7) PUMP: Manufacturer's Name	DEPARTMENT OF EGGINAL OFFIGE N 5 19	,	1
Тура: НР	DEPT. OF LOOK	COV	-
. 11/2/1965	DEFT. OF EAST	-	1
above mean see level	- Die Piele / 101/	100	
tatic level 158.9 ft. below top of well Date 4/28/80	Water Blows 6/21/	9	
Artesian pressurelbs. per square tuch -Date	1	-	
Artesian water is controlled by (Cap, valve, etc.)			-
(9) WELL TESTS: Drawdown is amount water level is lowered below static level RODJINSON,	7	/29	1 20
	I M OLE APPLEADOWN TOWN THE PROPERTY OF A SAME AS A SAME	1.49	1980
Was a pump test made? Yes [A. No [] If yes, by whom?NOD.Le., Car Yield: 94 gal./min. with 50.6 ft. drawdown after 17.67 hrs	WELL DRILLER'S STATEMENT:		
" " "	This well was drilled under my jurisdiction	and thi	s report is
	true to the best of my knowledge and belief.		
Recovery data (time taken as zero when pump turned off) (water leve			
measured from well top to water level)	NAME Story/Armstrong Drilling		
10 min. 172.6 50 168.35 155 164.8	7	(Type or	birne)
20 " 170.95 80 166.85 220 163.5	Address 10711-107/15 66th Ave. E.		
50 " 169.8 100 166.1	Puyatiug, wh. positi		
Date of test4/28/80 - 4/29/80		- }	
er test gal/min. with tt, drawdown after hr	(Well Deller)	7	
edan flow gpm, Date	License No. 00/2 Date M	AV 34	1086
comperature of water Was a chemical analysis made? Yes 🐧 No (J License No	Conflorence whole self	10 25 27.
	- 1 T T T T T T T T T T T T T T T T T T		

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

STATE OF W	ASELINGTON Permit No.	··· //	
1) OWNER: Named ichard Cyrner	Address 6 60 Courses Political	ullo	_
2) LOCATION OF WELL: County Lefferson	NILLY SE 14 Sec 8 DE	8n., R	LEW M
earing and distance from section or subdivision correct	The same of the sa		-
3) PROPOSED USE: Domestic Municipal Municipal Irrigation Test Well Other	(10) WELL LOG: Formation: Describe by color, character, size of materishop thickness of aquifers and the kind and nature of stratum pensivated, with at least one entry for each	al and stri	cture, and
4) TYPE OF WORK: Owner's number of well		V _p	T-1
New well Method: Dug D Bored D	MATERIAL	PROM	то
Desperied	arm sange cay	-	0
Reconditioned Rotary Jetted	Bron dand la lora	8	20
5) DIMENSIONS: Diameter of well inches. Depth of completed well 57 th	R. Sandy Clase	20	25
6) CONSTRUCTION DETAILS:	1.5		
Casing installed: 6 Diam from 0 tt. to 57 tt.	graf Sandy Clay	25	35
Welded Diam. from	grad lamby last grand HF.	35	45
Perforations: Yes No	gray Study Clay	45	56
SIZE of perforations from the first fit.	Bhow Sandy Clay	55	100
perforations from ft. to ft.	gray sataly Clay	100	135
Screens: Yes No	UNB. graysand Day	135	155
Type	Pater de de la lance	155	157
Diam. Slot size from ft. to ft.		3	
	72-3	-	-
Gravel packed: Yes No. 2 Size of gravel:		+	_
Gravel placed from ft. to ft.	8	1	_
Surface seal: Yes of No. 1 Man popular 2 Q	or v n		
Did any strata contain unusable water Yes No O	70 7		
Type of water? Depth of strata	CH 24		
(7) PUMP: Manufacturer's Name.			
		-	
(8) WATER LEVELS: Land-surface elevation 430		-	-
Static level		1	+
Artesian pressure lbs. per square inch. Date	·		1
Artesian water is controlled by (Cap, valve, etc.)		1	
(9) WELL TESTS: Drawdown is amount water level is	Work started 2-/3 1085. Completed	2-21	198
Was a pump test made? Yes □ No □ If yes, by whom?			
Yield: gal./min. with ft. drawdown after hre.	WELL DRILLER'S STATEMENT:	T 450 463 5 5 2 5 2 6	2013 2340 0152 110 W
<u> </u>	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and thi	report
	are to the best of my knowledge and bench.		
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	NAME RICHA) d BEKKE	(Type or	print)
.,	1722 Hux/0/6	2000	1/2014
	Di la Di	/	
Date of test	(Signer) Archard A 40 61	Elva	v
	(Well Briffer)		
Batter test/2 f gal/min. with / C tt. drawdown after / 3 hrs. Artesian flow gp.m. Date	770 (Weil Driller)	5.1	

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

WATER WELL REPORT

Start Card No. 02198-5

STATE OF WASHINGTON

hird (CopyDriller's Copy	Water Right Permit No.	-	
1)	OWNER: Name KOSS WITTER	Address DI Embody RD. PORT be	a)la	10,60
	STREET ADDDRESS OF WELL (or nearest address)	N 62 x SE x 300 8 + 24	.N R.	VEW.M.
3)	PROPOSED USE: Domestic Industrial Municipal Dewater Test Well Other	(10) WELL LOG or ABANDONMENT PROCEDURE Formation: Describe by color, character, size of material and at thickness of equifors and the kind and nature of the material in each e		
4)	TYPE OF WORK: (if more than one)	with at least one entry for each change of information.		
		MATERIAL PR	MON	70
,	Abendoned New well		2	10
	Reconditioned	Holomous	0	30
	DIMENSIONS: Diameter of well S/X inches.	clay, sandy, GARNELY 3	0	60
		CIAU. SAVON	0	130
	Drilled 176 feet. Depth of completed well 176 ft.	dd Sand GRAVEL 19	2/2	165
(6)	CONSTRUCTION DETAILS:	Sand GRAVEL + HOD	5	126
	Casing Installed; SIX Diam. from + / H. to 176 H.	ONLY CONTENT		
	Walded IP 1 Dies ton II to II		7. "-	
)	Liner Installed Threaded Diam, from ft. to ft.			
_				
] [] [] [] [] [] [] [] [] [] [
	Type of perforator used			0.000
)	SIZE of perforations in. by in.			
	perforations from ft. to ft.	2 8 m		
	perforations fromft. toft.			
	perforations fromft. toft.	at n		
	Screens: Yes No.	1 7 7 7	_	
	Manufacturer's Name	in m	-	
	Type Model No.	2 - +		
	Olam			
	Diam. Slot eize from h. to ft.	21 2		
	Gravel packed: Yee No Size of gravel	32		
	보이라면 보이다.	2		
_	Control product of the control of th			
	Surface seel: Yea No To what depth?			
	Material wood in soal Bentouile & Clay DKillings			
	Did any strata contain unueable water? Yes No.			
	Type of water? Depth of strate			
	Method of sealing strata off			
(7)	PUMP: Manufacturer's Name			
10	그렇게 하는 아이들 아이들 때문에 가장 하는 사람이 되었다.		2-7	- 5.16
_	Type: Land-surface elevation 2004			
(8)	WATER LEVELS: shove meen sea level		y 14.5	
	Statio level 136 n. below top of well Date 1-16-90			
	Artesian pressure bs. per equare inch Date			
	Artesian water is controlled by(Cap, velve, etc.))	Work started 1-5 1980mpleted 1-7	6	1090
(9)	WELL TESTS: Orawdown is amount water level is lowered below static level	Work started 1 3 , 10 (Completed 1 1		
10,	Was a pump test made? Yes No H yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:		
	Yield: gel./min. with ff, drawdown after hrs.	I constructed and/or accept reappossibility for constru	otion o	this well.
_		and the compliance with all Washington well Consti	uction	etangarga.
		Materials used and the information reported above are knowledge and belief.	e true	to my Dest
	Recovery date (time taken as zero when pump turned off) (water level measured from well loo to water level)			
	Time Water-Level Time Water-Level Time Water-Level	NAME MADERRY Well DRilling	CHEST OF	
_		(PERSON FIRM, OR CORPORATION)	(TYPE	OR PRINT)
_		- Po Box 055 Philsense	611	9.903
		- Address A Company		
	Date of test	1 Min (1) Molenny	10	12
	Baller test 15 gal./min. with 15 ft. drawdown after 31/4 hre.	(Signed) (WELL DRILLER)		
		Contractor's Regularization		9
	Aller Vallend and aller in the	Notabetas 121 pt Date 1-18	_	
		- News	ADVI	
	Temperature of water 49 Was a chemical analysis made? Yes No.	(USE ADDITIONAL SHEETS IF NECESSA	AHY)	

1 4	A PROPERTY.
1	-
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	4 1

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co.	м,	, e a			vı		м.

Second Copy Owner's Copy	VASHINGTON Permit No		
(1) OWNER: Name Ross Witter	ragene Pt 1 Box 342 Clima	diam	9832
(2) LOCATION OF WELL: County County	NH SELS Sec 8 2		W.M.
Bearing and distance from section or subdigisley forner			=
(3) PROPOSED USE: Domestic of Industrial Municipal	(10) WELL LOG:	T-12500	
frrigation Test Well Other	Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each of	il and struct the materi change of	cture, and al in each formation.
(4) TYPE OF WORK: Owner's number of well	MATERIAL	PROM	TO
New well Method: Dug Bored Deepened Cable Driven Reconditioned Rotary Jetted	Bra Sordy Clay	0	
	graft and Cley Landpan	8	25
(5) DIMENSIONS: Diameter of well James inches. Drilled 7.5 ft. Depth of completed well 17.5 ft.	grafsandy Clay	25	\$3
(6) CONSTRUCTION DETAILS:	The I solled	33	50
Casing installed: 6 " Diam. from . fr. to . fr.	Ban sanay lay	80	130
Welded Diam. from R. to R.	gray sanay oray	80	200
Perforations: Yes No &	Corre gray send Clay	130	135
SIZE of perforations in, by in.	gray gravely langer	135	137
perforations from tt. to the fit. to fit. fit. fit. fit. fit. fit. fit. fit.	gray sondy Clay	137	150
Screens: Yes No go	griffer Stand Standy Clay	150	170
Manufacturer's Name	U.B. gray Landy Clay	170	128
Diam. Slot size from ft. to ft.	The Land should	178	
Gravel packed: Yes O No G Size of gravel:	Grand Control of the		
Gravel placed from ft. to ft.	1 - 3	+	
Surface seal: Yes X No. 70 Man signify	33		
Did any strata contain unusable water Yes No	× ,		
Type of water? Depth of strata	to be a second of the second o	-	
Method of sealing strata off		-	
(7) PUMP: Manufacturer's Name	CO 2	+	-
Type:			
(8) WATER LEVELS: Land-surface elevation 430 m			
Static level / 3.3			
Artesian pressure			
Artesian water is controlled by(Cap, valve, etc.)			
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started /- 22 1985 Completed /:	- 29	1985
Was a pump test made? Yes No If yes, by whom?	Work state transfer of the state of the stat		
Yield: gal./min. with ft. drawdown after hr	##		
	This well was drilled under my jurisdiction	n and the	s report i
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	-	Va ;	۳
Time Water Level Time Water Level Time Water Level		200 or	print)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	some	cann.
Date of sent, /- 39 - 85	(Signed) Achard Step	ser	ar
Baller test 2 / gal/min. with 3 ft. drawdown after hr Artesian flow g.p.m. Date	1 779 num (-1)	9-	198
Temperature of water Was a chemical analysis made? Yes [] No			0,000



WATER WELL REPORT

Lo	пH	17	11	t	ion	N	à.

STATE OF WASHINGTON Permit No.

earing and distance from section or subdivision/corner	(10) MEET LOC.		
PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG: Formation: Describe by color, character, size of material control of a control of the kind and nature of the kind and nat	l and stru	cture, and at in each
TOTAL OF MORE. Owner's number of well	formation: Describe by color, character, see of material show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each a		
i) TYPE OF WORKE (if more than one)	MATERIAL	FROM	то
New well Method: Dug Bored Deepened Cable Driven	Bra Sandy Clay	0	200
Reconditioned Rotary Jetted	the deliver	0.5	40
a programme de la company	lite graysandy cuy	and and	7
Dimensions: Diameter of well inches. Depth of completed well ft.	1. 28/64R. Madel Clay bed	40	50
	409	/ -	
6) CONSTRUCTION DETAILS:	time Brow transfelloy	50	105
Casing installed: O "Diam. from O tt.		-	1-
Threaded O Diam. from tt. to	Coase Bron Sandy Clay	105	133
Welded (Dtam. trom Rt. to Rt.	1 1	100	
Perforations: Yes No &	Ban Sandy Clay + grand	1:35	14.5
Type of perforator used	1111	1111	150
SIZE of perforations in. by in.	Ban Sandy Clay	143	100
perforations from	2 11.001	100	170
perforations from	Ern sandy ford from	100	110
	0 1 110/11	170	200
Screens: Yes No S	Ben Sandy Clay	1	
Manufacturer's Name Model No	V. B. Round on Selled grand	200	111
Diam. Slot size from ft. to ft.	the fire sound to		- ,
Diam. Slot size from ft. to ft.			
Gravel packed: Yes No Size of gravel:	2 4		
Gravel placed from ft. to ft.	7 P	70	
1/ 1/	20 20 20	m	-
Surface seal: Yes to No . To what depth?	## 66	2	-
Did any strata contain unuaable water? Yes No	7 3	1	-
Type of water? Depth of strute	Þ¢ 9	1:5	-
Method of scaling strata off	3	177	
(7) PUMP: Manufacturer's Name	77.	13	-
Type:			
(8) WATER LEVELS. above mean sea level			
Static level 19 1. Static level 19 1 Date 12 15 84			
Artesian pressure			
			1
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 11 - 21 1984. Completed	2-6	19.8
Was a pump test made? Yes . No . If yes, by whom?	WELL DRILLER'S STATEMENT:		
Yield: gal./min. with ft. drawdown after hre		n and th	is report
	This well was drilled under my jurisdiction true to the best of my knowledge and belief		
" "			
Recovery data (time taken as zero when pump turned off) (water leve measured from well top to water level)	NAMERICA ATO PERKE	2141	
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation)	(Type o	(/ / ·
	1 Address 27 22 Way 10/60	6901	mu
	0.010	11	
	" Maland 150	000	var
	tell and all the beautiful the second of the second	Mark Committee	**************
Date of test	[Signed]	-	

WATER WELL REPORT

START CARD NO

UNIQUE WELL I D#

AFC 960

STATE OF WASHINGTON

14	77757	WATER RIGHT PERMIT NO			
(1)	OWNER: Name Chris_Baschab	Address P.O. Box 65056 Port Ludlow, Wa. 98	3365		
(2)	LOCATION OF WELL: County	NE_ 1/4 _SW_ 1/4 _Sect8T	_28N_ R_	1E_ WM	
(2a)	STREET ADDRESS OF WELL (or nearest address) 23,1_Coursey_Lane	-Rort.Ludlow			
(3)	PROPOSED USE: 50 Domestic Irrigation Other Industrial DeWater Municipal Test Well	(10) WELL LOG or ABANDONMENT PROCEDURE DESC Formation Describe by color, character, size of material and structure, and show			
(4)	TYPE OF WORK: Owner's number of well (If more than one)1	and the kind and nature of the material in each stratum ponetrated, with at least of information			
	⊗ New Well Method □ Dug □ Bored	MATERIAL	FROM	то	
	☐ Abandoned ☐ Cable ☐ Driven ☐ Deepened ☐ Rotary ☐ Jetted	Brown hard clay, gravel	0	.35	
	Reconditioned	Gray cemented gravel	35	45	
(5)	DIMENSIONS: Diameter of well 6" inches	Brown packed sand & clay	45	56	
	Drilled27.5feet	Brown_very_fine_sand_packed_dry	56	69	
(8)	CONSTRUCTION DETAILS:	Brown_sandy_clay	69	75	
(0)	Casing installed 6" diam From 0 ft To 271-10 ft	Brown_silty_clay	75	102	
	63 Welded _5" diam From269-1 _ ft To270-10 _ ft	Brown very fine sand, loose, dry	102	137	
	Thresded then from ft To ft	Brown, packed, sand & small gravel	137	151	
_	Perforations	Brown tight sand, small gravel, seepage	1.5.1	162	
	Type perforator used	Brown sandy_clay_dry	162	177	
	Size of perforations in by in	Light.gray_sandy_clayfirm	1.7.7	189	
	perforations From ft To ft	Brown.sandy_clay,_firm	1.89_	201	
	perforations Fromft Toft	Blue_clay	201	212	
	perforations From ft To ft	Blue sandy clay	212	21.7	
	Screens 55 Yes No	Blue.sandy_firm_clay_stratified,_seepage Blue.sandy_clay	224	230	
	Manufacture's NameJohnson		230	246	
	TypeStainless V-Slot Model No	Blue.sity.clay Blue.fine.sand,.stratified,.dirty.	246	250	
	Olam5" Slot size _ 0,10_ From270-10 ft To276 ft	Light brown sandy_clay	250	260	
	Diam Slot size From ft To ft	Light brown sandy, gravely clay	260	266	
	Diam Slot size From ft To ft	Brown med.&.coarse.sand,.W/B.	266	271	
	Gravel packed Yes to No Size of gravel	Brown med & coarse sand, pea gravel, W/B	27.1	275	
	Gravel placed from ft To ft	Brown tight gravel, clay, no flow	275		
	Surface seal g Yes □ No To what depth?25 ft	Diown agric graver, day, no now			
	Material used in sealMed_Chip_Bentonite.	Well_Yield_Note_Well_has_intermittent_yields down to 3 gpm			
	Did any strata contain unusable water? ☐ Yes ⊠ No	from a average yield of 10 plus gpm.do.to.high.pumping.rate.			
	Type of water Depth of strata ft	of Pope Resource well located aprox, 900 feet from this well.	1.7.1		
	Method of sealing strata off	DECEIVED		100	
(7)	PUMP: Manufacture's Name	RECEIVED.			
107	Туре НР	DEC-1-4-2001	1000100 1001		
(8)	WATER LEVELS: Land surface elevation above sea level 430 It	DEC 1 4 2001			
	Static level 226-5 ft below top of well Date May 15, 2001	Washington State		-	
	Artesian pressure lbs per square inch Date Artesian water is controlled by	Department of Ecology		Trosur	
91	(Cap, valve, etc.) WELL TEST: Drawdown is amount water level is lowered below static level	Worked startedMar_28, 2001 Completed	May 15, 20	001	
"/	Was a pump test made? ☐ Yes ⊚ No d yes,by whom?	WELL CONSTRUCTOR CERTIFICATION:			
	Yieldgal /min_withft_ drawdown afterthrs	I constructed and/or accept responsibility for construction of this we compliance with all Washington well construction standards. Materi	als used		
	Yield gal /min with ft drawdown after fts Recovery data (time taken as zero when pump turned off) (water level measured	and the information reported above are true to my best knowledge	and belief		
	from well top to water level)	NAME Charlie's Drilling (Person, Firm, or Corporation)			
	Time Water Level Time Water Level Time Water Level	Address P.O. Box 127 Port Hadlock, WA 98939			
		0/////			
			nse No	0458	
	Date of test	(Well Driller)			
	Bailer test 3 gat /min with 44=7 tt drawdown after 2 hrs	Contractor's Registration NoCHARLD*066	3 00		
	Artest gal /min with stem set at ft for hrs				
	Artesian flow gat /min Date May_1.1, 2001	DateMay_16_ 20	01		



WATER WELL REPORT STATE OF WASHINGTON

Application	No.	****	 +++	*****	
and the second					

LOCATION OF WELL: County Jeff	- Ale . JA Sec. J T.	LN., R	LE W.M
ring and distance from section or subdivision corner		D 1	
PROPOSED USE: Domestic M Industrial Municipal	(10) WELL LOG:		
Irrigation Test Well Other	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each of	al and stru the materi change of	cture, and al in each formation
TYPE OF WORK: Owner's number of well	MATERIAL	FROM	TO
New well Man Method: Dug Bored Despend Cable Driven	RAGAY M.P.	0	19
Deepened Cable Driven Reconditioned Rotary F Jetted	SANS H.P.	19	50
	BROWN SANAT CLAY	50	28
DIMENSIONS: Diameter of well inches.	Exay Gravet Hope	88	110
Drilled 193	LARGE BYTRA HARD RE	12/10	115
CONSTRUCTION DETAILS:	GYAY SANAY CLAY	1 45	182
Casing installed: A Diam. from # L. tt. to 123 n.	MYOWN SAND - NEO	782	LIZ
Threaded the ft. to ft.	PAR BYRY AL HEO	AK 7	773
Welded 2 Diam. from ft. to ft.	- Pe,P	192	-
W-fdlengt			
Perforations: Yes No #			To the st
SIZE of perforations in. by in.	A TANKS		
perforations from ft. to ft.			
perforations from			
perforations from ft. to ft.		5777.5	= =0
Screens: Yes C No E			
Manufacturer's Name			_
Diam. Slot size			
Diam. Slot size trom tt to ft.		-	-
		-	-
Gravel packed: Yes No D Size of gravel:			
Surface Scal: Yes 10 No To what depth? 20 ft. Material used in seal AMNTANITE + Principles Did any strata contain unusable water? Yes No 45 Type of water? Depth of strata Method of sealing strata off.			
7) PUMP: Manufacturer's Name			
above mean sea level	7.5	-	1
atic level / / ft. below top of well Date / / / / / / / / / / / / / / / / / / /	19	1	1
Artesian water is controlled by (Cap, valve, etc.)		1	
(Cap, valve, etc.)			
9) WELL TESTS: Drawdown is amount water level in lowered below static level	Work started		19
as a pump test made? Yes 🗋 No 🎁 It yes, by whom?			
ield: gal./min. with ft. drawdown after hre.	MM 그리		
· · · · · · · · · · · · · · · · · · ·	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	s report
" " " " " " " " " " " " " " " " " " " "			
ecovery 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	NAME (Person, firm, or corporation)	(Type or	print)
	Address 197 3 , 130 6 9 3 A W	vila	ac W
Date of test	land to be a fine		
pate of test			
rtesian flow gp.m. Date TAN 6-1276			



WATER WELL REPORT STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name R. T. Moran	Addres Rt. 1. Box 604-D port Lu	dlow,	
(2) LOCATION OF WELL: County Jefferson	Tax IS. NE . Sec 8 T. 2.	, N., R	EW.M.
Bearing and distance from section or subdivision corner			
(3) PROPOSED USE: Domestic I Industrial Municipal	(10) WELL LOG:		
Irrigation Test Well Other	Formation: Describe by color, character, size of material show thickness of aquifers and the kind and nature of the stratum penetrated, with at least one entry for each characteristics.	and structured material angle of for	ture, and it in each ormation.
AL TENE OF WORK. Owner's number of well	MATERIAL	FROM	TO
New well Method: Dug Bored		0	1
Despened C Cable C Driven C	Brown top soil Brown sandy clay	1	11_
Reconditioned Rotary I Jetted I	Brown sandy gravely clay &		
CENTRAL PARTICIPANCE.	large rocks	11	25
(5) DIMENSIONS: Diameter of well 6 inches. Drilled 290 10"rt. Depth of completed well 290 10 4.	Brown clay	25	_83 _
	Brown gritty clay	83_	128
(6) CONSTRUCTION DETAILS:	Brown sandy clay	128	138
Casing installed: 6 Diam from 0 n. to 288 511	Brown sand & gravel	138	142
Threaded [5 Diam. from 285tt. to 285 8."	Brown dry gravel	142	169
Welded J Diam. from ft. to ft.	Brown sandy clay	169	182
	Brown fine dry sand	182	197
Perforations: Yes O No A	Brown dry large gravel &		
Type of perforator used	coarse sand	197	199
perforations from ft. to	Greenish brown clay & wood		
perforations from	particles	199	218
perforations from ft. to ft.	Gray clay	218	241
C	Greenish silty clay	241	256
Screens: Yes A No D Johnson	reenish brown silty sandy		
- Stainless Steel Model No.	clay (some seepage)	256	270
Diam 5 5/ Silot size s. 020. from 205	Greenish brown sandy clay	270	287
Diam. Slot size from ft. to ft.	Blue coarse sand & Large		
Gravel packed: Yes No Z Size of gravel:	gravel W/B Static approx.		
Gravel placed from	215'	287	289
		289	291-
Surface seal: Yes I No I To what depth? 18 ft.	Greenish brown class ECE/V		
Material used in seal. Bentonite & clay			
Did any strata contain unusable water? Yes [] No E	- Dr - V	En	
Method of sealing strate off	SOUTHWEST REGIONAL CLOSE	40	
	Sour Agran 192	-	
(7) PUMP: Manufacturer's Name	HWEST NT DO	-	
туре:	AEGIO ECC.	+	
(8) WATER LEVELS: Land-surface elevation above mean sea level	WAL OUR	-	-
7. helow top of well Date 6/-30/-78-	SOUTHWEST REGIONAL OFFICE	+	
Artesian pressure			
Artesian water is controlled by (Cap, valve, etc.)		1	-
	5/12 70	6/30	vo 78
(3) WELL LEGIS. lowered below static level	Work started 6/19 19 78 Completed	W. J	, 19
Was a pump test made? Yes No I If yes, by whom?	WELL DRILLER'S STATEMENT:		
Yield: gal./min. with	This well was drilled under my jurisdiction	and thi	s report is
	true to the best of my knowledge and belief.		
" " (water level	1 00 00 00 00 00 00 00 00 00 00 00 00 00		
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	NAME Stoican Drilling Co., I	(Lype o.	
	Address P.O. Box 161 Sequim,	Wash.	98382
		4,000	N PRODUCES
	I lake Thecar Pro	sider	t047
	[Signed]		
Baller test	Charlie Sherk 0458 Date	/10	19.78
Artesian flow	1	535	10

Qu. 1 ' Bat.

DEPARTMENT OF CONSERVATION	e ve ve
WELL SCHEDULE No. 28 / E 3KI	
Data 8-21 7075	1748kg
	TO DEC
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Date 19 2	·
6. Carlogo Diam 6 to In Type	
Catalogs Diam to B. Type Depth 6: Platch 7. Chief aquifer(s): Type Rest. 147 (5: 1)	e r'
7. Chief aquifer(s):	
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9. Penns Type	1
Drives by	40 - 0
0. Yields Flow god mile. Poster of mile min. Mark Rest Rest	23 m
Driven by Borsepower gal min. Mass. Rept. Est. Drawdown in dises hough prompting gal min. Adequacy, permanence	
Adequacy, permanence	
1. Uses (Dom.) Stock. PS166. Trs. Obs.	
2. Quality Sample No.	
Taste, oplor, hardness, sanitation, etc.	finança de -
Teste, color, hardness, sanitation, etc.	
3. Other dates Log Water levels Draft Pump dest Analyses	4
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