

REMEDIAL ACTION REPORT
STEVENS PASS SKI AREA
SKYKOMISH, WASHINGTON

Prepared for
Stevens Pass Ski Area
December 8, 2011

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**Remedial Action Report
Stevens Pass Ski Area
Skykomish, Washington**

The material and data in this report were prepared under the supervision and direction of the undersigned.

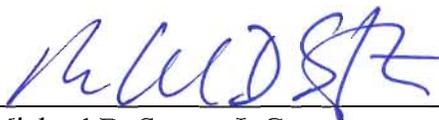


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EXECUTIVE SUMMARY

From August through November 2011, a remedial action was completed at two areas [the former Stevens Pass Mini Mart gas station (Mini Mart) and the current vehicle maintenance facility] of the Stevens Pass ski area (ski area) property near Skykomish, Washington. The objectives of the remedial action were: 1) to remove the accessible soil that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels, and in doing so, minimize the source of the petroleum hydrocarbon-impacted groundwater, 2) to reduce the risks associated with the inaccessible impacted soil, and 3) to reduce the petroleum hydrocarbon concentrations in the groundwater to below the site groundwater cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable timeframe.

To remediate the impacted soil at the former Mini Mart area and the current vehicle maintenance facility, the accessible soils at each area that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels were excavated and hauled off-site for disposal. There were two areas of soil excavation at the former Mini Mart area and these areas were located beneath and south of the former Mini Mart station (designated the southern Mini Mart area excavation) and to the north of the former maintenance building (designated the northern Mini Mart area excavation). There were also two areas of soil excavation at the vehicle maintenance facility and these areas were located along the north and south sides of the facility building (designated the northern vehicle maintenance facility excavation and the southern vehicle maintenance facility excavation, respectively). Each excavation was extended laterally until the petroleum hydrocarbon concentrations in the final confirmation sidewall samples were below the site soil cleanup levels or until there were potential structural concerns for a nearby building, utility, or other structure. Each excavation was extended vertically to at least one foot below the groundwater table to remove the source of the impacted groundwater and to allow for recovery of the groundwater. However, if the excavation within a specific grid cell did not extend to below the groundwater table, then a floor sample was collected to confirm that the impacted soil had been removed at that location.

At the northern vehicle maintenance facility excavation, the distribution of the petroleum hydrocarbons in the soil indicated that the likely primary contaminant source was surface spills at the area of the fuel dispensing pumps. To remove as much of the impacted soil as possible and to minimize the remaining source of the hydrocarbon-impacted groundwater, a shed that was connected to the building and that housed the fuel

EXECUTIVE SUMMARY (Continued)

dispensing pumps was demolished, the fuel pumps were decommissioned, and the 4,000-gallon gasoline underground storage tank (UST) and the 10,000-gallon diesel UST were removed. Both steel tanks were in good condition, and there was no evidence of pitting or holes. The USTs were replaced by a dual-compartment AST that was installed along the west side of the vehicle maintenance building.

A total of 19,864 tons of excavated soil were hauled to the Greater Wenatchee Regional Landfill for disposal. Approximately 16,724 and 3,140 tons of the disposed soil were from the former Mini Mart station area excavations and the current vehicle maintenance facility excavations, respectively. Based on the analytical results from the final confirmation sidewall and floor samples from each excavation, the excavation activities effectively removed all of the accessible soil at each area that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

After completing the soil excavation activities, the excavations were backfilled with imported clean sand and/or gravel. The southern Mini Mart area excavation was also backfilled with excavated material (the material greater than ¾-inches in diameter was placed at or near the bottom of the excavation, and the stockpiled finer-grained soil that contained petroleum hydrocarbon concentrations below the site soil cleanup levels was placed at depths above the high seasonal groundwater table). Except along the asphalt shoulder of U.S. Highway 2 or at the areas of surface capping (described below), imported crushed rock was used to complete the backfilling of each excavation at ground surface.

After completing the soil excavations, there are a total of six remaining localized areas of inaccessible soil at the north end of the current vehicle maintenance building, at the north and south corners of the former maintenance building, and along the eastern edge of the southern Mini Mart area excavation that contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To reduce the risks (direct human contact, protection of groundwater, and/or protection of terrestrial ecological organisms) associated with the remaining impacted soil, Wyser installed an 8-inch-thick, reinforced concrete surface cap over each area of impacted soil that was located adjacent to a building. Wyser also installed a 6-inch-thick asphalt surface cap over both areas of impacted soil along the eastern edge of the southern Mini Mart area excavation. The area of each cap, which was based on a conservative estimate of the area of remaining impacted soil, ranged from approximately 24 to 574 square feet. Along the north side of

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the current vehicle maintenance building and the north and south corners of the former maintenance building, it appears that the remaining impacted soil extends beneath localized areas of the buildings, under existing concrete floors. Institutional controls will be implemented for the remaining locations on the property where the soil contains petroleum hydrocarbon concentrations greater than the site cleanup levels.

To remediate the known petroleum hydrocarbon-impacted groundwater at the former Mini Mart station area and the current vehicle maintenance facility, a total of 465,905 gallons of groundwater were extracted from the open excavations. The total volumes of groundwater pumped from the former Mini Mart station area excavations and the current vehicle maintenance facility excavations were approximately 450,505 and 15,400 gallons, respectively. All of the extracted groundwater was pumped into a treatment system that consisted of two to three, 21,000-gallon sediment settling tanks in series, followed by two, 2,000-pound carbon-filled canisters in series. The treated groundwater was reinfiltrated to the subsurface via a trench located south of the southern Mini Mart area excavation. By late September, the reinfiltration rate within the trench could not keep up with the groundwater extraction rate, and after obtaining verbal approval from Ecology, the treated groundwater was reinfiltrated into the southern end of the southern Mini Mart area excavation. Based on the treatment system sample analytical results, the system effectively reduced the petroleum hydrocarbon concentrations to below the MTCA Method A groundwater cleanup levels prior to reinfiltration.

After backfilling the excavations, a total of four groundwater monitoring wells were installed at the former Mini Mart station area and the current vehicle maintenance facility on October 26, 2011. In accordance with the Work Plan, two of the wells (VMW-4 and SMW-4) were installed near the centers of the northern vehicle maintenance facility excavation and the southern Mini Mart area excavation, respectively. Based on the encountered petroleum hydrocarbon-impacted soil to the north of the former maintenance building, an additional monitoring well (SMW-5) was installed near the northern Mini Mart area excavation. After discovering that a previous monitoring well (SMW-1) at the former Mini Mart station area had been destroyed, a replacement well (SMW-1R) was installed at the previous location of SMW-1.

On November 7, 2011, SLR conducted a groundwater sampling event at the former Mini Mart station area and the current vehicle maintenance facility to evaluate the effectiveness of the remedial action and to begin monitoring the natural attenuation of any remaining

EXECUTIVE SUMMARY (Continued)

petroleum hydrocarbon-impacted groundwater. SLR collected groundwater samples from all of the monitoring wells at the former Mini Mart station area and from all of the monitoring wells at vehicle maintenance facility, except VMW-1, for laboratory analysis. Well VMW-1 was dry at the time of sampling. On November 7, 2011, the general groundwater flow direction beneath the current vehicle maintenance facility was to the north-northeast, which is consistent with the flow direction during the previous groundwater sampling event conducted in August 2010. The general groundwater flow direction beneath the southern part of the former Mini Mart station area was to the northeast, and the flow direction turned to the east beneath the northern part of the area. Based on the topography of the area, it seems unlikely that the flow direction would turn to the east, and because that flow direction is based on the groundwater elevation in only one well, future groundwater monitoring data will be used to further evaluate the flow direction beneath that area.

The groundwater sample analytical results from the November 2011 sampling event showed that all of the samples from the monitoring wells at the former Mini Mart station area and the current vehicle maintenance facility did not contain petroleum hydrocarbon concentrations greater than the MTCA Method A cleanup levels. Only the samples from the two wells (VMW-4 and SMW-4) located within backfilled excavation areas contained petroleum hydrocarbon concentrations greater than the method reporting limits, and those were below the Method A cleanup levels. The sampling results indicate that the groundwater extraction activities effectively recovered the impacted groundwater within the excavation areas and that the soil excavations appear to have removed the sources of the impacted groundwater.

Based on the final confirmation sidewall and floor sample analytical results from each excavation and the construction of surface caps to minimize the risks associated with the remaining inaccessible petroleum hydrocarbon-impacted soil, SLR believes that no further action is necessary for the soil at the Stevens Pass ski area, pending the implementation of institutional controls and the results of three additional quarterly groundwater sampling events. Stevens Pass plans to conduct groundwater sampling events in February, May, and August 2012 to try to further verify that the groundwater concentrations at the former Mini Mart station area and the current vehicle maintenance facility have been reduced to below the MTCA Method A cleanup levels.

1 INTRODUCTION

In February 2011, the Stevens Pass Ski Area (Stevens Pass) entered into the Washington Department of Ecology's (Ecology's) Voluntary Cleanup Program (VCP) to obtain Ecology's opinions regarding the results of the previous investigation activities and the proposed remedial action for two areas [the former Stevens Pass Mini Mart gas station (Mini Mart) and the current vehicle maintenance facility] of the Stevens Pass property. The locations of the former Mini Mart station area and the current vehicle maintenance facility are shown on Figure 1. The proposed remedial action primarily consisted of excavation of the petroleum hydrocarbon-impacted soil at both areas and extraction of the hydrocarbon-impacted groundwater from the open excavations, as described in a Draft Remedial Action Work Plan [Work Plan; SLR International Corp (SLR), 2011a]. On March 15, 2011, Ecology notified Stevens Pass that: 1) the characterization of the site is sufficient to establish cleanup levels and select a cleanup action, 2) the proposed cleanup levels and points of compliance for the site meet the substantive requirements of the Model Toxics Control Act (MTCA), and 3) the proposed remedial action is likely to be sufficient to meet the substantive requirements of MTCA (Ecology, 2011a).

The remedial action was conducted from August 23 through November 11, 2011. Except for the planned excavation activities near a large Washington Department of Transportation (WSDOT) traffic sign, the excavation of unanticipated petroleum hydrocarbon-impacted soil in the northern part of the former Mini Mart station area (north of the former maintenance building), and the removal of the two underground storage tanks (USTs) at the vehicle maintenance facility, the work was completed in accordance with the Work Plan. During the permitting process to obtain approval to excavate within the WSDOT right-of-way, WSDOT decided that the soil excavation could not occur within 15 feet of the footing of their large sign. In August 2011, SLR notified Ecology of this change to the scope of work (SLR, 2011b). During the re-routing of an underground water line that was located beneath the former Mini Mart station area, petroleum hydrocarbon-impacted soil was encountered approximately 10 feet to the north of the former maintenance building. The locations of the former Mini Mart station and the former maintenance building are shown on Figure 1. To remediate the additional impacted soil, the remedial action at the former Mini Mart station area was expanded to include the excavation of the accessible impacted soil to the north of the former maintenance building, the extraction of potentially impacted groundwater from the open excavation, and the installation and monitoring of an additional groundwater monitoring well near the excavation area. To remove as much of the impacted soil along the north

side of the current vehicle maintenance building as possible and to minimize the remaining source of the hydrocarbon-impacted groundwater, the two USTs near the building were removed.

The remedial action consisted of the following activities:

- Excavated the accessible petroleum hydrocarbon-impacted soil at the former Mini Mart station area and the current vehicle maintenance facility
- Removed the 10,000-gallon diesel underground storage tank (UST) and the 4,000-gallon gasoline UST at the vehicle maintenance facility
- Removed two 550-gallon USTs that were discovered within the southern Mini Mart area excavation
- Extracted petroleum hydrocarbon-impacted groundwater from each of the open excavations, treated the extracted groundwater, and reinfiltated the treated groundwater to the south (hydraulically upgradient) of and/or within the southern Mini Mart area excavation
- Installed three groundwater monitoring wells (two wells at the former Mini Mart station area and one well at the current vehicle maintenance facility) and replaced a monitoring well at the Mini Mart station area that had been previously destroyed by the snow clearing operations at the property
- Installed asphalt or concrete surface caps over the remaining areas of inaccessible impacted soil
- Conducted a groundwater sampling event

1.1 Project Objectives

The objectives of the remedial action were: 1) to remove the accessible soil that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels, and in doing so, minimize the source of the petroleum hydrocarbon-impacted groundwater, 2) to reduce the risks associated with the inaccessible impacted soil, and 3) to reduce the petroleum hydrocarbon concentrations in the groundwater to below the site groundwater cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable timeframe. Stevens Pass plans to conduct at least three more quarterly groundwater sampling events to monitor the post-remediation groundwater conditions over time.

1.2 Site Soil and Groundwater Cleanup Levels

The current zoning of the Stevens Pass property is “resort/lodge/retreat”, and the neighboring forest lands are zoned “forest commercial”. Based on the zoning and the property operations, the MTCA Method A or Method B cleanup levels are appropriate for the petroleum hydrocarbon-impacted soil and groundwater at the property. For the remedial action, the Method A soil and groundwater cleanup levels were applied. However, in accordance with WAC 173-340-740(2)(b), the Method A soil cleanup levels should be at least as stringent as concentrations that result in no significant adverse effects on terrestrial ecological receptors, using the procedures specified in MTCA, unless it can be demonstrated that establishing cleanup levels for the protection of terrestrial ecological receptors is not necessary.

Under WAC 173-340-7491 and -7492, the site does not qualify for an exclusion from a terrestrial ecological evaluation (TEE), and none of the simplified TEE screening steps could be met. Therefore, the soil cleanup levels listed in MTCA Table 749-2 for unrestricted land use (TEE cleanup levels) are applicable to the site. Of the contaminants detected during the previous investigations (see Section 2.2), Table 749-2 only presents cleanup levels for gasoline-range organics (GRO), diesel-range organics (DRO), and lead. The TEE cleanup level for GRO [200 milligrams per kilogram (mg/kg)] exceeds the MTCA Method A cleanup level (30 mg/kg), the TEE cleanup level for DRO (460 mg/kg) is below the Method A cleanup level (2,000 mg/kg), and the TEE cleanup level for lead (220 mg/kg) is below the Method A cleanup level (250 mg/kg).

It is important to note that the MTCA Method A soil cleanup level for GRO is dependent upon the presence of benzene in the soil and the toluene, ethylbenzene, and xylenes concentrations relative to the GRO concentrations in the soil. Since benzene was present in the soil at the current vehicle maintenance facility and the former Mini Mart station area, the GRO soil cleanup level was 30 mg/kg at those areas. However, as discussed in this report, the final confirmation soil samples from both excavations at the vehicle maintenance facility and from the northern Mini Mart area excavation did not contain detectable benzene and the total toluene, ethylbenzene, and total xylenes concentrations were less than 1 percent of the GRO concentrations; therefore, in accordance with MTCA (Table 740-1), the GRO cleanup level at those areas was increased to 100 mg/kg. Due to the presence of benzene in a final sidewall sample from the southern Mini Mart area excavation, the GRO cleanup level at that area remained 30 mg/kg.

2 BACKGROUND

2.1 General Property Information

The Stevens Pass Ski Area operates on two areas of U.S. Forest Service (Forest Service) land (a total of 2,463 acres), pursuant to a special use permit issued by the Forest Service to New Stevens, LLC, as well as on a 32-acre privately held parcel referred to as Yodelin. One of the Forest Service areas includes the main downhill ski and base areas, and the second area is in Mill Valley and includes the Nordic Center and cross country and snowshoe trails. The majority of the subject property is ski terrain and undeveloped forest land. U.S. Highway 2 bisects a portion of the property.

The subject property was first developed as a small ski area in 1937, and the area was expanded over time into today's resort. The adjoining properties are undeveloped, wooded Forest Service lands.

A gas station (the Mini Mart station) was constructed on the subject property, along the northern side of Highway 2, in 1960 and it operated until 1971. The location of the former Mini Mart station is shown on Figure 1. A Washington State Highway Commission map dated May 16, 1961, labels the gas station as "Dept. of Highway Service Station", and indicates that a gasoline aboveground storage tank (AST) and an oil AST were located behind the station building. In 1964, five USTs were installed at the station [ECS Florida, LLC (ECS), 2010]. Two of the tanks contained heating oil, one contained leaded gasoline, one contained unleaded gasoline, and one contained waste oil. According to Ecology files, all five of these USTs were removed. Ski resort employees are reported to have removed at least some of the USTs during the summer of 1980 and installed two of the tanks at the current vehicle maintenance facility. The station building was demolished in 1998.

In 1948, WSDOT constructed a building to the northeast of the future Mini Mart station area that was used for vehicle maintenance. The location of the former maintenance building is shown on Figure 1. WSDOT operated the maintenance facility until 1968, when most of the 270-foot-long building was demolished. From 1968 to 1980, Stevens Pass used the remaining portion of the building (the southwestern end) for vehicle maintenance. The remaining building still exists, but is only used by Stevens Pass for Parking and Transit Operations offices and equipment/supply storage.

The current vehicle maintenance facility was constructed in 1980. The facility is located south of Highway 2, near the bottom of a ski run (see Figure 1). Vehicle fueling occurs at the facility and at the time of the remedial action, two USTs were in use. A 10,000-gallon UST that contained diesel and a 4,000-gallon UST that contained unleaded gasoline were located along the northwest corner of the facility building. The USTs were installed in 1988, replacing the two USTs that had been originally installed in 1980. A 300-gallon diesel AST is located along the northeast corner of the facility building, and one 500-gallon used oil AST, two 500-gallon transmission fluid ASTs, two 70-gallon engine oil ASTs, and two 70-gallon drive train oil ASTs are located inside of the building. The locations of the USTs and ASTs, prior to the remedial action, are shown on Figure 2.

2.2 Previous Environmental Investigations

2.2.1 Phase I Environmental Site Assessment

In April 2010, ECS conducted a Phase I Environmental Site Assessment (ESA) of the subject property. Based on the results of the ESA, ECS identified two recognized environmental conditions (RECs) associated with the property. The RECs were: 1) soil staining on the unpaved ground surface of the fuel dispensing area at the current vehicle maintenance facility indicated the potential for soil and possibly groundwater impacts, and 2) potential releases from the previous UST system at the former Mini Mart station may have impacted the soil and groundwater (ECS, 2010).

2.2.2 Phase II Assessment

In May 2010, Sound Environmental Strategies (SES) conducted a Phase II assessment to characterize the soil conditions at the current vehicle maintenance facility and the former Mini Mart station area. The assessment consisted of excavating and sampling five test pits (TP01 through TP05) at the vehicle maintenance facility and five test pits (TP06 through TP10) at the former Mini Mart area. The approximate locations of the test pits at the current vehicle maintenance facility and the former Mini Mart area are shown on Figures 2 and 3, respectively. At the vehicle maintenance facility, the test pits were advanced to depths of approximately 3.5 to 7 feet below ground surface (bgs) before meeting refusal due to boulders. One soil sample was collected from each test pit, except TP02, for laboratory analysis. Two samples were collected from TP02 for analysis. The soil sample analytical results showed that at least one sample from all of the test pits, except TP03, contained GRO, DRO, heavy oil-range organics (HO), benzene, and/or total xylenes concentrations that exceeded the current site soil cleanup levels (SES, 2010). Groundwater was not encountered in any of the test pits.

At the former Mini Mart station area, the test pits were advanced to depths of approximately 4 to 10 feet bgs before meeting refusal due to boulders. One soil sample was collected from each test pit, except TP06, for laboratory analysis. Two samples were

collected from TP06 for analysis. The soil sample analytical results showed that at least one sample from all of the test pits, except TP10, contained GRO, DRO, HO, benzene, toluene, ethylbenzene, and/or total xylenes concentrations that exceeded the current site soil cleanup levels (SES, 2010). Groundwater was encountered in TP06 and TP09; however, groundwater samples were not collected.

A ground penetrating radar (GPR) survey was conducted at the former Mini Mart area to try to locate any remaining USTs. The survey did not indicate the presence of tanks at the area, and a potential former tank excavation was detected to the north of the former pump island area.

2.2.3 Remedial Investigation

From June through August 2010, SLR conducted a remedial investigation at the current vehicle maintenance facility and the former Mini Mart station area to assess the groundwater conditions and to delineate the lateral and vertical extents of the hydrocarbon-impacted soil. The investigation initially consisted of excavating and sampling 13 test pits (RTP-1 through RTP-13) at the current vehicle maintenance facility and 25 test pits (STP-1 through STP-18 and MTP-1 through MTP-7) at the former Mini Mart station area. After determining that groundwater was impacted (as discussed below), a second phase of the investigation consisted of installing three groundwater monitoring wells (VMW-1, VMW-2, and VMW-3) at the current vehicle maintenance facility and three monitoring wells (SMW-1, SMW-2, and SMW-3) at the former Mini Mart station area to determine the groundwater flow directions and to allow for groundwater monitoring over time. The approximate locations of the test pits and wells at the current vehicle maintenance facility are shown on Figure 2, and the approximate locations of the test pits and wells at the former Mini Mart station area are shown on Figure 3.

At the current vehicle maintenance facility, the 13 test pits were advanced to depths of approximately 4 to 14 feet bgs, and the monitoring wells were installed to depths of approximately 13 to 14 feet bgs. A soil sample was collected from each test pit, except RTP-9, for laboratory analysis. The soil sample analytical results showed that the samples from RTP-1 and RTP-7 contained GRO, DRO, and HO concentrations that exceeded the current site soil cleanup levels (SLR, 2010). The soil samples from the other test pits did not contain petroleum hydrocarbon concentrations greater than the soil cleanup levels or the method reporting limits (MRLs). Field screening results [strong petroleum-like odors and a photoionization detector (PID) reading of 78 parts per million (ppm)] indicated that petroleum hydrocarbons were present in the soil at the test pit (RTP-9) that was not sampled. Groundwater was encountered in all of the test pits, except RTP-4. Groundwater samples were collected from test pits RTP-1, RTP-2, RTP-3, RTP-6, RTP-7, RTP-8, and RTP-10, and from wells VMW-2 and VMW-3 for laboratory analysis. Well VMW-1 was dry at the time of sampling. The groundwater sample analytical results showed that the samples from RTP-1 and RTP-2 contained DRO and HO concentrations

that exceeded the MTCA Method A groundwater cleanup levels. The sample from RTP-2 also contained benzene and GRO concentrations that exceeded the Method A cleanup levels. The groundwater samples from RTP-3, RTP-6, RTP-7, RTP-8, RTP-10, VMW-2, and VMW-3 did not contain petroleum hydrocarbon concentrations greater than the Method A cleanup levels or the MRLs. The groundwater sample from RTP-2 contained a total lead concentration that exceeded the Method A cleanup level; however, based on the low lead concentration in the soil at that area, the lead concentration in the groundwater sample was likely due to sediment in the sample and does not represent groundwater conditions.

At the former Mini Mart station area, the investigation was divided into two areas; the southern portion of the area (at the former station and area south of the station) and the northern portion of the area (near the former vehicle maintenance building). At the southern portion of the Mini Mart station area, 18 test pits (STP-1 through STP-18) were advanced to depths of approximately 2.5 to 15 feet bgs. A soil sample was collected from test pits STP-1, STP-2, STP-5, STP-6, STP-8, STP-9, STP-11, STP-13, STP-14, STP-16, and STP-17 for laboratory analysis. The soil sample analytical results showed that the samples from STP-1, STP-2, and STP-16 contained GRO concentrations that exceeded the current site soil cleanup level (SLR, 2010). The sample from STP-1 also contained benzene, DRO, and HO concentrations that exceeded the soil cleanup levels. The soil samples from the other test pits did not contain petroleum hydrocarbon concentrations greater than the site cleanup levels or the MRLs. It is important to note that field screening results (petroleum-like odors and/or PID readings greater than 25 ppm) indicated that petroleum hydrocarbons were present in several test pits that were not sampled (STP-3, STP-4, STP-7, STP-10, STP-12, and STP-15). Groundwater was encountered in all of the test pits that were advanced to a depth of at least 5 feet bgs. Groundwater samples were collected from test pits STP-1, STP-2, STP-5, STP-8, STP-11, STP-13, and STP-16, and from wells SMW-1, SMW-2, and SMW-3 for laboratory analysis. The groundwater sample analytical results showed that the samples from STP-1, STP-2, and STP-16 contained petroleum hydrocarbon (benzene, total xylenes, naphthalene, GRO, DRO, and/or HO) concentrations that exceeded the MTCA Method A groundwater cleanup levels. The groundwater samples from STP-5, STP-8, STP-11, STP-13, SMW-1, SMW-2, and SMW-3 did not contain petroleum hydrocarbon concentrations greater than the Method A cleanup levels or the MRLs. The groundwater sample from STP-1 contained a total lead concentration that exceeded the Method A cleanup level; however, based on the low lead concentrations in the soil and a non-detect total lead concentration in the other groundwater sample (from STP-2) that was analyzed for lead, the lead concentration in the groundwater sample from STP-1 was likely due to sediment in the sample and does not represent groundwater conditions.

At the northern portion of the Mini Mart station area, 7 test pits (MTP-1 through MTP-7) were advanced to depths of approximately 3.5 to 7 feet bgs. Field screening results did not indicate the presence of petroleum hydrocarbons in any of the test pits, except for a

weak oil-like odor at MTP-3. To verify the field screening results, a soil sample was collected from MTP-2, MTP-3, and MTP-7 for laboratory analysis. The soil sample analytical results showed that the samples did not contain petroleum hydrocarbon concentrations greater than the current site soil cleanup levels or the MRLs (SLR, 2010). Groundwater was encountered in all of the test pits, except MTP-5, and groundwater samples were collected from MTP-2, MTP-3, and MTP-7 for laboratory analysis. The groundwater sample analytical results showed that the sample from MTP-2 contained a DRO concentration that exceeded the MTCA Method A groundwater cleanup level. The groundwater samples from MTP-3 and MTP-7 did not contain petroleum hydrocarbon concentrations greater than the Method A cleanup levels or the MRLs. The DRO-impacted groundwater at MTP-2, which was located approximately 50 feet north of the former Mini Mart station, appeared to be due to petroleum releases at the Mini Mart area, and not to releases at the former maintenance building.

2.3 Areas of Impacted Soil and Groundwater

2.3.1 Current Vehicle Maintenance Facility

Based on the investigation results, petroleum hydrocarbon concentrations greater than the site soil cleanup levels were present beneath two areas of the current vehicle maintenance facility. Based on shallow soil contamination and surface staining, it appears that maintenance activities to the south of the building (outside of a maintenance bay) and fuel spills to the north of the building (at the vehicle fueling area) were the sources of the impacted soil and groundwater. To the south of the building, the estimated area of impacted soil was approximately 85 feet long by 40 feet wide (see Figure 2). To the north of the building, the estimated area of impacted soil was approximately 90 feet long by an average width of approximately 55 feet. The petroleum hydrocarbon concentrations greater than the site groundwater cleanup levels were present in slightly smaller areas than the impacted soil areas (see Figure 2).

2.3.2 Former Mini Mart Station Area

Based on the investigation results, petroleum hydrocarbon concentrations greater than the site soil cleanup levels were present beneath the former Mini Mart station building and pump island, and extended to the north and south of the former structures. The estimated area of impacted soil was approximately 225 feet long by 120 feet wide (see Figure 3). The impacted soil appears to extend beneath a portion of the WSDOT right-of-way along Highway 2. The petroleum hydrocarbon concentrations greater than the site groundwater cleanup levels occurred in approximately the same area as the impacted soil, except that the impacted groundwater extended further to the north, beyond test pit MTP-2 (see Figure 3).

2.4 Site Geology and Hydrogeology

2.4.1 Current Vehicle Maintenance Facility

At the current vehicle maintenance facility, the shallow soil primarily consists of sand and gravel with cobbles and boulders to the maximum depth explored (approximately 14.5 feet bgs). The boulders are up to 5 feet in diameter. To the north of the vehicle maintenance building at test pits RTP-3 and RTP-4, there is an organic-rich silty zone that occurs at depths of approximately 11.5 to at least 13 feet bgs. From June through August 2010, the depths to groundwater to the north of the building ranged from approximately 10 feet to greater than 14 feet bgs, and the depths to groundwater to the west, south, and east of the building ranged from approximately 1.5 to 11.8 feet bgs. It appears that the groundwater is perched on top of bedrock. On August 16, 2010, the general groundwater flow direction beneath the facility was to the north-northeast (SLR, 2010).

2.4.2 Former Mini Mart Station Area

At the former Mini Mart Station area, the shallow soil primarily consists of sand and gravel with cobbles and boulders to the maximum depth explored (approximately 15 feet bgs). Locally, a silty soil matrix is present. At the southwestern end of the former Mini Mart station area (near well SMW-1), fractured granodiorite bedrock was encountered at depths of approximately 3 to 11 feet bgs. At the northern part of the former Mini Mart area (north and east of the former maintenance building), organic-rich soil (peat or silt) units that are up to approximately 2.5 feet thick are locally interbedded with the sand and gravel units. The area of the organic-rich soil units is approximately 80 feet long and at least 70 feet wide. From June through August 2010, the depths to groundwater beneath the former Mini Mart area ranged from approximately 3 to 10 feet bgs. Similar to the current vehicle maintenance facility, the groundwater beneath the former Mini Mart area is likely perched on top of the bedrock. On August 16, 2010, the general groundwater flow direction beneath the area was to the north-northeast (SLR, 2010).

3 REMEDIAL ACTION

To reduce the petroleum hydrocarbon concentrations in the soil and groundwater at the current vehicle maintenance facility and the former Mini Mart station area to below the site cleanup levels, the remedial action was conducted from August 23 through November 11, 2011. A detailed description of the remedial action activities is presented below. Photographs of the remediation activities are presented in Appendix A.

3.1 Excavation of Petroleum-Impacted Soil

Based on the previous investigation results, impacted soil excavations were conducted along the south side of the current vehicle maintenance building (designated the southern vehicle maintenance facility excavation), along the north side of the current vehicle maintenance building (designated the northern vehicle maintenance facility excavation), and beneath and to the south of the former Mini Mart station (designated the southern Mini Mart area excavation). To remove the petroleum hydrocarbon-impacted soil that was encountered while re-routing a water line around the north side of the former vehicle maintenance building, an additional soil excavation was conducted to the north of the former maintenance building (designated the northern Mini Mart area excavation). Detailed descriptions of the pre-excavation activities and each soil excavation are provided below.

3.1.1 Pre-Excavation Activities

Prior to conducting the soil excavation activities, Stevens Pass obtained a Grading/Clearing Permit from the King County Department of Development and Environmental Services. The excavation was conducted in accordance with the conditions of the permit. Since the excavation activities at the former Mini Mart station area would likely extend onto the WSDOT right-of-way along U.S. Highway 2, Stevens Pass obtained a General Permit from WSDOT that allowed excavation of soil beneath their right-of-way.

SLR personnel created a grid across each planned soil excavation area that was the basis for the locations of the excavation confirmation soil samples. An anchor point of each

grid was established as the starting point for the X-axis and Y-axis coordinates of the grid. For the excavations at the former Mini Mart station area, the X-axis coordinates were named using numbers (starting with "1") and the Y-axis coordinates were named using letters (starting with "A"). For the excavations at the current vehicle maintenance facility, the X-axis coordinates were named using letters (starting with "A") and the Y-axis coordinates were named using numbers (starting with "1"). The grid nodes were surveyed at intervals of 25 feet (each grid cell covered an area of 625 square feet). The locations and designations of the grid cells for the southern vehicle maintenance facility excavation, the northern vehicle maintenance facility excavation, the southern Mini Mart area excavation, and the northern Mini Mart area excavation are shown on Figures 4, 5, 6, and 7, respectively.

3.1.2 Excavate Soil and Collect Confirmation Soil Samples

Wyser Construction, Inc. (Wyser) of Snohomish, Washington, conducted the soil excavation activities under the direction of an SLR geologist. Each excavation was extended laterally until the petroleum hydrocarbon concentrations in the final confirmation sidewall samples were below the site soil cleanup levels or until there were potential structural concerns for a nearby building, utility, or other structure. Each excavation was extended vertically to at least one foot below the groundwater table to remove the source of the impacted groundwater and to allow for recovery of the groundwater. Since the excavations extended below the groundwater table and subsequent groundwater sample analytical data will provide an empirical demonstration that any remaining impacted soil beneath the water table has been effectively removed, soil samples were not typically collected from the floors of the excavations. However, if the excavation within a specific grid cell did not extend to below the groundwater table, then a floor sample was collected to confirm that the impacted soil had been removed at that location.

During the excavation activities, SLR collected at least one discrete sidewall sample from within each partially excavated grid cell. Each sidewall sample was collected from the area closest to the center of the grid cell, and the depths of the samples were based on the depths of the excavations. At the southern vehicle maintenance facility excavation, which extended to a depth of less than 10 feet bgs, the sidewall samples were collected at a depth immediately above the groundwater table (approximately 7 feet bgs). At the excavations that extended deeper than 10 feet bgs (the northern vehicle maintenance facility excavation and both Mini Mart area excavations), two sidewall samples were collected from each partially excavated grid cell. The samples were collected at a depth of approximately 5 feet bgs and at a depth immediately above the groundwater table (approximately 11 to 15 feet bgs at the northern vehicle maintenance facility excavation and approximately 10 feet bgs at the Mini Mart area excavations).

All of the confirmation sidewall samples and floor samples were submitted to Friedman & Bruya, Inc. (F&B) in Seattle, Washington, for analysis of DRO and HO by Ecology Method NWTPH-Dx (after silica gel cleanup), GRO by Ecology Method NWTPH-Gx, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B. When a sidewall sample contained an analyte concentration that exceeded the site soil cleanup level, the entire length of the sidewall within that grid cell was extended by at least 3 feet, if there were no structural concerns associated with additional excavation, and re-sampled. When a floor sample contained an analyte concentration that exceeded the site soil cleanup level, the entire length of the floor within that grid cell was extended by up to 3 feet and re-sampled at a location above the groundwater table.

3.1.2.1 Screen Excavated Soil

Due to the coarse nature of the soil at the property, Wyser ran all of the excavated soil through a screener located at the former Mini Mart station area to remove the material greater than ¾-inches in diameter (coarse gravel to boulders). The coarse material was temporarily stockpiled near the excavations and used as backfill material in the Mini Mart area excavations. SLR personnel assessed the finer-grained excavated material for the presence of petroleum hydrocarbons by using odors, physical appearance (staining and sheens), and photoionization detector (PID) measurements. The finer-grained soil that appeared to contain minimal contamination [weak or no petroleum odors, no staining or sheens, and PID readings less than 20 parts per million (ppm)] was temporarily stockpiled on plastic sheeting near each excavation area. The excavated soil that exhibited the presence of more significant contamination was directly loaded into trucks and hauled to the Greater Wenatchee Regional Landfill in Wenatchee, Washington, for disposal.

A description of each soil excavation, including the sample analytical results, is presented below. Copies of the laboratory reports for all of the excavation sidewall and floor samples are presented in Appendix B.

3.1.2.2 Current Vehicle Maintenance Facility Excavations

3.1.2.2.1 Southern Vehicle Maintenance Facility Excavation

The southern vehicle maintenance facility excavation wrapped around the southwestern corner of the current vehicle maintenance building, and was approximately 105 feet long by an average width of approximately 21 feet. The excavation extended to a maximum depth of approximately 9 feet bgs. Figure 4 shows the approximate final area and depths of the excavation. A total of 720 tons of soil from the southern vehicle maintenance facility excavation was hauled off-site for disposal.

A total of 14 confirmation sidewall samples were collected from the southern vehicle maintenance facility excavation. The approximate locations of the samples are shown on

Figure 4. The northern sidewall sample from grid cell A1 (designated SVNSW-A1-3) contained a GRO concentration (35 mg/kg) that exceeded the initial site cleanup level (30 mg/kg) for that area. All of the other sidewall samples did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To remove the remaining impacted soil in grid cell A1, the northern sidewall of A1 was extended by approximately 3 feet and the subsequent sidewall sample [designated SVNSW(2)-A1-3] did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. The soil sample analytical results from the southern vehicle maintenance facility excavation are presented in Table 1.

3.1.2.2 Northern Vehicle Maintenance Facility Excavation

The northern vehicle maintenance facility excavation was located along the north side of the current vehicle maintenance building, and extended up to 85 feet north of the building (see Figure 5). During the excavation, the distribution of the petroleum hydrocarbons in the soil indicated that the likely primary contaminant source was surface spills at the area of the fuel dispensing pumps. To remove as much of the impacted soil as possible and to minimize the remaining source of the hydrocarbon-impacted groundwater, a shed that was connected to the building and that housed the fuel dispensing pumps and several oil ASTs was demolished, and the two USTs were removed. The fuel pumps were decommissioned and the ASTs were temporarily moved to an area within the vehicle maintenance building.

Prior to removal of the USTs, Stevens Pass submitted a completed Underground Storage Tank Closure and Site Assessment Notice form to Ecology. A copy of the completed form, as well as a completed Underground Storage Tank Site Check/Site Assessment Checklist form, are presented in Appendix C. Prior to removal of each UST, the product from each tank was removed, and the tanks were triple-rinsed by Marine Vacuum Services, Inc. (MarVac) of Seattle, Washington. The tanks were then filled with carbon dioxide gas and certified as inert by Sound Testing, Inc. (Sound Testing) of Seattle, Washington. A total of approximately 700 gallons of product and rinse water from the tanks were hauled to the MarVac facility in Seattle, Washington, for disposal. The tanks were transported to the Schnitzer Steel (Schnitzer) facility in Woodinville, Washington, for recycling. Both steel tanks were in good condition, and there was no evidence of pitting or holes. Photographs of the tanks are included in Appendix A.

Besides the eastern end of the excavation, which extended to depths of only 3 to 7 feet bgs, the excavation extended to depths ranging from approximately 15 to 18 feet bgs. Figure 5 shows the approximate final area and depths of the excavation. A total of 2,420 tons of soil from the northern vehicle maintenance facility excavation was hauled off-site for disposal.

A total of 20 confirmation sidewall samples and 2 confirmation floor samples were collected from the northern vehicle maintenance facility excavation. The approximate

locations of the samples are shown on Figure 5. The eastern sidewall samples from grid cell C1 (designated NVESW-C1-5 and NVESW-C1-13) and the southern sidewall samples from grid cell C2 (designated NVSSW-C2-5 and NVSSW-C2-13) contained GRO and DRO concentrations (up to 1,200 and 8,700 mg/kg, respectively) that exceeded the site soil cleanup levels (100 and 460 mg/kg, respectively). The samples from C1 and C2 were collected at depths of approximately 5 and 13 feet bgs. Due to potential structural concerns associated with the vehicle maintenance building, the excavation at C1 and C2 could not be extended further to remove the remaining impacted soil. Based on the sample analytical results, it appears that the impacted soil at C1 and C2 extends beneath a localized area of the building (see Figure 5). All of the other sidewall samples, as well as the floor samples, from the excavation did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. The sample analytical results from the northern vehicle maintenance facility excavation are presented in Table 1.

After completing the excavation backfilling activities, Wyser installed a 13,000-gallon dual-compartment AST along the western edge of the vehicle maintenance building to replace the USTs. The 10,000-gallon compartment of the double-walled tank contains diesel, and the 3,000-gallon compartment contains gasoline. The tank and associated dispenser were installed on a concrete pad. The location of the tank and dispenser are shown on Figure 5. Wyser re-built the shed that housed the small oil ASTs, and the ASTs were moved back into that area.

3.1.2.3 Former Mini Mart Station Area Excavations

3.1.2.3.1 Southern Mini Mart Area Excavation

The southern Mini Mart area excavation extended south and southeast of the former maintenance building, and included the former station building area and the former pump island area. The final excavation area was approximately 230 feet long by an average width of approximately 110 feet. The excavation typically extended to a depth of approximately 14 feet bgs; however, the depths of portions of the northern part of the excavation ranged from approximately 8 to 11 feet bgs. Figure 6 shows the approximate final area and depths of the excavation. A total of 15,590 tons of soil from the southern Mini Mart area excavation was hauled off-site for disposal.

While excavating in the northwestern part of the excavation, behind the location of the former service station building, two 550-gallon USTs were discovered. Based on the presence of copper tubing coming out of each tank, the tanks were likely used to store heating oil. The steel tanks were in poor condition, and each tank contained pitting and holes. Each tank contained over 400 gallons of water, but no product. Prior to removal of each UST, the water from each tank was removed, and the tanks were rinsed by MarVac. The tanks were then inerted by Sound Testing. A total of approximately 1,000 gallons of water from the tanks were hauled to the MarVac facility in Seattle, Washington, for

disposal. The tanks were transported to the Schnitzer facility in Woodinville, Washington, for recycling.

A total of 60 confirmation sidewall samples and 1 confirmation floor sample were collected from the southern Mini Mart area excavation. The approximate locations of the samples are shown on Figure 6. The shallow sidewall sample from grid cell B4 (designated MSW-B4-5), the shallow and deep sidewall samples from cell C5 (designated MSW-C5-5 and MSW-C5-10, respectively), the deep sidewall sample from cell E5 (designated MSW-E5-10), and the deep sidewall sample from cell J4 (designated MSW-J4-9) contained GRO concentrations (32 to 530 mg/kg) that exceeded the site soil cleanup level (30 mg/kg). Sample MSW-J4-9 also contained a benzene concentration (0.37 mg/kg) that exceeded the site soil cleanup level (0.03 mg/kg). The shallow sidewall sample from grid cell J4 (designated MSW-J4-5) contained GRO and DRO concentrations (1,500 and 2,400 mg/kg, respectively) that exceeded the site soil cleanup levels, and the deep sidewall sample from cell K5 (designated MSW-K5-10) contained a DRO concentration (930 mg/kg) that exceeded the site soil cleanup level. All of the other confirmation sidewall samples, as well as the confirmation floor sample, did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

Due to potential structural concerns associated with the former maintenance building, the excavation at grid cell J4 could not be extended further to remove the remaining impacted soil. Based on the sample analytical results, it appears that the impacted soil at J4 extends beneath the southern corner of the building. In accordance with the WSDOT requirement of not excavating within 15 feet of the footing for their large traffic sign, the excavation at grid cell C5 could not be extended further to remove the remaining impacted soil. The estimated areas of remaining impacted soil at cells J4 and C5 are shown on Figure 6.

To remove the impacted soil in grid cells B4 and K5, the sidewalls of B4 and K5 were extended by approximately 3 feet and the subsequent sidewall samples [designated MSW(2)-B4-5 and MSW(2)-K5-10] did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To remove the impacted soil in grid cell E5, the sidewall of E5 was extended by approximately 8 feet into grid cell E6, and the subsequent sidewall sample (designated MSW-E6-10) contained GRO and DRO concentrations (150 and 880 mg/kg, respectively) that exceeded the site soil cleanup levels. Based on the sample analytical results, the excavation was extended another 3 feet, and the subsequent sidewall sample [designated MSW(2)-E6-10] still contained GRO and DRO concentrations (93 and 650 mg/kg, respectively) that exceeded the soil cleanup levels. Due to potential structural concerns associated with nearby underground utilities beneath the shoulder of U.S. Highway 2, the excavation at E6 could not be extended further to remove the remaining impacted soil. The estimated area of remaining impacted soil at cell E6 is shown on Figure 6. The soil sample analytical results from the southern Mini Mart area excavation are presented in Table 2.

A total of approximately 500 cubic yards of finer-grained excavated soil from the southern Mini Mart area excavation appeared to contain minimal contamination (weak or no petroleum odors, no staining or sheens, and PID readings less than 20 ppm), and was temporarily stockpiled on plastic sheeting near the excavation area. To verify the field screening results, SLR collected a total of 5 discrete soil samples from the “clean” stockpile. The number of samples and the sampling methods were in accordance with Ecology’s *Guidance for Remediation of Petroleum Contaminated Sites* (Ecology, 2011c). The samples did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels; therefore, the soil was used to backfill the excavation at depths above the high seasonal groundwater table (approximately 3 feet bgs). The sample analytical results from the stockpile samples are presented in Table 3.

3.1.2.3.2 Northern Mini Mart Area Excavation

On August 31, 2011, Wyser was re-routing an underground water line around the northern end of the former maintenance building. While trenching near the northern corner of the building, SLR detected strong petroleum hydrocarbon-like odors and PID readings greater than 500 ppm in the excavated soil. The trench was deepened to 10 feet at that location to try to delineate the vertical extent of the contamination, and SLR collected soil samples from the zone of the highest PID readings (at approximately 6 feet bgs; designated Water Trench-6) and at the base of the trench (designated Water Trench-10). The sample analytical results showed that sample Water Trench-6 contained GRO and DRO concentrations (1,700 and 16,000 mg/kg, respectively) greater than the site soil cleanup levels. Sample Water Trench-10 did not contain petroleum hydrocarbon concentrations greater than the soil cleanup levels. The locations of the water trench samples are shown on Figure 7.

To remove the impacted soil near the north end of the former maintenance building, a soil excavation (the northern Mini Mart area excavation) was extended in all directions away from the water trench sample location. The final area of excavation was approximately 82 feet long by an average width of approximately 25 feet. The excavation typically extended to a depth of approximately 12 feet bgs; however, the depth of the southeastern portion of the excavation was approximately 8 feet bgs. Figure 7 shows the approximate final area and depths of the excavation. A total of 1,134 tons of soil from the northern Mini Mart area excavation was hauled off-site for disposal.

While excavating near the former maintenance building, a clay drain pipe was encountered and broken, resulting in oily water draining from the pipe. Wyser traced the pipe back to an inactive sump in the former garage portion of the building. The oily water was recovered and pumped through the groundwater treatment system, and Wyser filled the sump with concrete and capped the end of the drain pipe. The approximate locations of the former sump and drain pipe are shown on Figure 7.

A total of 23 confirmation sidewall samples and 2 confirmation floor samples were collected from the northern Mini Mart area excavation. The approximate locations of the samples are shown on Figure 7. The shallow western and southern sidewall samples from grid cell M2 (designated NMWSW-M2-5 and NMSSW-M2-5, respectively), the shallow southern sidewall sample from cell M3 (designated NMSSW-M3-5), the deep northern sidewall sample from cell O2 (designated NMNSW-O2-10), and the floor sample collected from cell N3 (designated NMFL-N3-5) contained DRO concentrations (500 to 3,600 mg/kg) that exceeded the site soil cleanup level. All of the other sidewall and floor samples did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To remove the remaining impacted soil along the west sidewall of grid cell M2, the west sidewall of M2 was extended by approximately 6 feet and the subsequent sidewall sample [designated NMWSW(2)-M2-5] did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To remove the remaining impacted soil along the north sidewall of cell O2, the north sidewall of O2 was extended by approximately 4 feet into grid cell P2, and the subsequent sidewall sample (designated NMSW-P2-10) did not contain petroleum hydrocarbon concentrations greater than the soil cleanup levels. To remove the remaining impacted soil beneath the floor of grid cell N3, the excavated portion of cell N3, as well as the northern excavated portion of cell M3, was deepened by approximately 3 feet and the subsequent floor sample (designated NMFL-N3-8) did not contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

The eastern area of impacted soil along the south sidewall of grid cell M2 was against the former maintenance building, and due to potential structural concerns associated with the building, the eastern portion of south sidewall at M2 could not be extended further to remove the remaining impacted soil; however, to the west of the building, within cell M2, the excavation was extended to the south by approximately 8 feet into grid cell L2, and the subsequent sidewall sample (designated NMSW-L2-5) did not contain petroleum hydrocarbon concentrations greater than the soil cleanup levels. To remove the impacted soil along the south sidewall of cell M3, the excavation was extended approximately 5 feet and the subsequent sample [designated NMSSW(2)-M3-5] contained a DRO concentration (1,000 mg/kg) that exceeded the soil cleanup level. Due to potential structural concerns associated with the former maintenance building, the south sidewall at M3 could not be extended further to remove the remaining impacted soil. Based on the sample analytical results at the south sidewalls of cells M2 and M3, it appears that the impacted soil extends beneath the northern corner of the building at two localized areas (see Figure 7). The sample analytical results from the northern Mini Mart area excavation are presented in Table 4.

3.1.3 Groundwater Extraction and Treatment

To remediate the known petroleum hydrocarbon-impacted groundwater that collected in the open soil excavations at the current vehicle maintenance facility and the former Mini

Mart station area, a suction pump was placed below the water level in each excavation and the water was pumped into a groundwater treatment system that was located to the south of the southern Mini Mart area excavation. The groundwater treatment system consisted of two to three, 21,000-gallon sediment settling tanks in series, followed by two, 2,000-pound carbon-filled canisters in series. The treated groundwater was reinfiltred to the subsurface via a trench located south of the southern Mini Mart area excavation. The approximate location of the reinfiltred trench is shown on Figure 3. Prior to any groundwater extraction, Stevens Pass obtained approval from Ecology to allow for reinfiltred of the treated groundwater, and Ecology formally registered the reinfiltred system under their Underground Injection Control (UIC) Program (Ecology, 2011b). By late September, the reinfiltred capacity of the trench was less than the groundwater extraction rate, and SLR obtained verbal approval from Ecology to reinfiltred the treated groundwater into the southern end of the southern Mini Mart area excavation.

The groundwater remediation operations began on August 29, 2011, and the extraction, treatment, and reinfiltred were conducted intermittently until November 4, 2011. The reinfiltred rates ranged from approximately 20 to 30 gallons per minute. Under the conditions of Ecology's authorization to reinfiltred the treated groundwater, SLR personnel were required to collect samples of the influent to the first carbon canister, the influent to the second carbon canister, and the effluent from the second carbon canister at system activation and then after every 48 hours of treatment/reinfiltred operations. After collecting each set of samples, the treatment/reinfiltred operations were deactivated until receiving analytical results which demonstrated that the effluent from the second carbon canister did not contain petroleum hydrocarbon concentrations greater than the MTCA Method A groundwater cleanup levels. From August 29 through October 31, 2011, there were 10 treatment system sampling events. All of the samples were submitted to F&B for analysis of BTEX by EPA Method 8021B, GRO by Ecology Method NWTPH-Gx, and DRO and HO by Ecology Method NWTPH-Dx (after silica gel cleanup). The analytical results showed that the influent samples to the first carbon canister frequently contained GRO, DRO, and/or benzene concentrations [up to 3,900, 2,000, and 11 micrograms per liter ($\mu\text{g/L}$), respectively] that exceeded the Method A cleanup levels (800, 500, and 5 $\mu\text{g/L}$, respectively), and that the treatment system effectively reduced the concentrations to below the cleanup levels prior to reinfiltred. Based on detectable benzene concentrations in two of the influent samples to the second carbon canister, the carbon in the first canister was replaced on two occasions during the system operations. The groundwater treatment system analytical results are presented in Table 5, and copies of the laboratory reports are included in Appendix B.

A total of 465,905 gallons of groundwater were extracted from the open excavations, treated, and then reinfiltred at or near the southern Mini Mart area excavation. The total volumes of groundwater extracted from the current vehicle maintenance facility excavations and the former Mini Mart station area excavations were approximately

15,400 and 430,505 gallons, respectively. The treatment system was decommissioned and removed from the site on November 8, 2011.

3.1.4 Excavation Backfilling

After completing the excavation and groundwater extraction activities, Wyser backfilled all of the excavations with imported clean sand and/or gravel from the Two Rivers Sand and Gravel facility near Lake Wenatchee, Washington. The southern Mini Mart area excavation was also backfilled with excavated material (the material greater than ¾-inches in diameter was placed at or near the bottom of the excavation, and the stockpiled finer-grained soil that contained petroleum hydrocarbon concentrations below the site soil cleanup levels was placed at depths above the high seasonal groundwater table). Except along the asphalt shoulder of U.S. Highway 2 or at the areas of surface capping, imported crushed rock from the Two Rivers Sand and Gravel facility was used to complete the backfilling of each excavation at ground surface.

3.1.5 Installation of Surface Caps

After completing the soil excavations, there are a total of six localized areas of inaccessible soil remaining at the north end of the current vehicle maintenance building, at the north and south ends of the former maintenance building, and along the eastern edge of the southern Mini Mart area excavation that contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To reduce the risks associated with the remaining impacted soil, Wyser installed an 8-inch-thick, reinforced concrete surface cap over each area of impacted soil that was located adjacent to a building. Wyser also installed a 6-inch-thick asphalt surface cap over both areas of impacted soil along the eastern edge of the southern Mini Mart area excavation. The area of each cap, which was based on a conservative estimate of the area of remaining impacted soil, ranged from approximately 24 to 574 square feet. The locations of the caps are shown on Figures 5, 6, and 7, and photographs of the concrete caps are presented in Appendix A. Along the north side of the current vehicle maintenance building and the north and south corners of the former maintenance building, it appears that the remaining impacted soil extends beneath localized areas of the buildings, under existing concrete floors. The estimated areas of remaining impacted soil beneath the buildings area shown on Figures 5, 6, and 7.

3.1.6 Installation of Groundwater Monitoring Wells

To assess the effectiveness of the remedial action and to evaluate the natural attenuation of any remaining petroleum hydrocarbon concentrations in the groundwater, Cascade Drilling, Inc. (Cascade) of Woodinville, Washington, installed a total of four groundwater monitoring wells at the current vehicle maintenance facility and the former Mini Mart station area on October 26, 2011. In accordance with the Work Plan, two of the

monitoring wells (VMW-4 and SMW-4) were installed near the centers of the northern vehicle maintenance excavation and the southern Mini Mart area excavation, respectively. Based on the encountered petroleum hydrocarbon-impacted soil to the north of the former maintenance building, an additional monitoring well (SMW-5) was installed approximately 35 feet north (assumed downgradient groundwater flow direction) of the northern Mini Mart area excavation. After discovering that a previous monitoring well (SMW-1) at the former Mini Mart station area had been destroyed, a replacement well (SMW-1R) was installed at the previous location of SMW-1. The location of VMW-4 is shown on Figure 8 and the locations of SMW-4, SMW-5, and SMW-1R are shown on Figure 9.

During the backfilling of the northern vehicle maintenance facility excavation and the southern Mini Mart area excavation, Wyser installed a vertical, 8-inch-diameter, Schedule 40 PVC pipe at the planned locations of VMW-4 and SMW-4, respectively. In addition, Wyser excavated a test pit and installed a vertical, 8-inch-diameter, PVC pipe at the locations of planned wells SMW-5 and SMW-1R. During the excavation of each test pit, SLR screened the excavated soil for the potential presence of petroleum hydrocarbons. There was no evidence of petroleum hydrocarbons in either test pit. The bottom of each PVC pipe was placed at the top of the bedrock, at depths of approximately 12 to 16 feet bgs. Cascade installed each monitoring well inside of the pipe, and Wyser removed the pipes concurrently with Cascade's placement of the sand pack and bentonite seal around the well. Each well was constructed with 2-inch-diameter Schedule 40 PVC, and included an approximate 8.5- to 10-foot-long screen (0.020-inch wide slots) that intercepted the groundwater table. A filter pack consisting of Monterrey 2x12 silica sand was placed from the bottom of the well casing to at least 6 inches above the uppermost screen slot. A hydrated bentonite chip seal was installed above the filter pack to approximately 1 foot bgs. A traffic-rated steel monument was installed (in concrete) flush with the ground surface to protect each well. Well logs that describe the well construction details are presented in Appendix D. After installation of the wells, Cascade inspected the previously installed monitoring wells and cut a small section off of the top of each well to prevent damage from the well monuments, which had settled at least 6 inches since installation.

On November 7, 2011, Harmsen and Associates, Inc. (Harmsen) of Monroe, Washington, surveyed the elevation of each of the new wells and the modified existing wells relative to an arbitrary site datum (southeast corner of concrete electrical transformer pad located approximately 100 feet west of the southwest corner of the current vehicle maintenance building) that was assigned an elevation of 1,000.00 feet. The surveyed elevations of the new monitoring wells, as well as the existing wells, are presented in Table 6.

3.2 Conduct Groundwater Sampling Event

On November 7, 2011, SLR conducted a groundwater sampling event at the current vehicle maintenance facility and former Mini Mart station area to evaluate the effectiveness of the remedial action and to begin monitoring the natural attenuation of any remaining petroleum hydrocarbon-impacted groundwater. There are four wells (VMW-1 through VMW-4) at the current vehicle maintenance facility and five wells (SMW-1R, and SMW-2 through SMW-5) at the former Mini Mart station area. The locations of the wells at the current vehicle maintenance facility and the former Mini Mart station area are shown on Figures 8 and 9, respectively.

SLR collected groundwater samples from all of the monitoring wells at vehicle maintenance facility, except VMW-1, and from all of the monitoring wells at the former Mini Mart station area for laboratory analysis. Well VMW-1 was dry at the time of sampling. Prior to sampling, the depths to groundwater were measured in all of the wells by using an electronic water level probe. Before sample collection, SLR purged each well by using a peristaltic pump with dedicated tubing at a flow rate of approximately 0.33 liters per minute. During purging, field parameters of pH, conductivity, temperature, dissolved oxygen, and oxidation-reduction (redox) potential were measured every three to five minutes. Each groundwater sample was collected following the stabilization of the field parameter measurements. Each sample was submitted to F&B for analysis of BTEX, GRO, DRO, and HO. The sampling purge water was pumped through the groundwater treatment system and reinfiltated.

3.2.1 Groundwater Monitoring Results

3.2.1.1 Current Vehicle Maintenance Facility

On November 7, 2011, the depths to groundwater in the monitoring wells at the current vehicle maintenance facility ranged from 5.92 to 6.58 feet; however, well VMW-1 was dry at the time of the measurements and the depth of that well is 13.68 feet. The depth to groundwater measurements were converted to groundwater elevations by using the results of the well elevation survey conducted on November 7, 2011. The groundwater elevations in the wells ranged from less than 969.51 feet (at the well that was dry) to 988.76 feet. Based on the groundwater elevations, the general groundwater flow direction beneath the current vehicle maintenance facility was to the north-northeast. This flow direction is consistent with the flow direction during the previous groundwater sampling event conducted in August 2010 (SLR, 2010). The groundwater monitoring data from the November 2011 sampling event, as well as from the previous sampling event, are presented in Table 6. The groundwater elevations in the wells on November 7, 2011 are shown on Figure 8.

3.2.1.2 Former Mini Mart Station Area

On November 7, 2011, the depths to groundwater in the monitoring wells at the former Mini Mart station area ranged from 3.52 to 5.51 feet. The depth to groundwater measurements were converted to groundwater elevations by using the results of the well elevation survey conducted on November 7, 2011. The groundwater elevations in the wells ranged from 927.40 to 933.30 feet. Based on the groundwater elevations, the general groundwater flow direction beneath the southern part of the former Mini Mart station area was to the northeast, and the flow direction turned to the east beneath the northern part of the area. The eastern flow direction beneath the northern part of the area is not consistent with the flow direction during the previous groundwater sampling event in August 2010 (SLR, 2010). The groundwater monitoring data from the November 2011 sampling event, as well as from the previous sampling event, are presented in Table 6. The groundwater elevations in the wells on November 7, 2011 are shown on Figure 9.

3.2.2 Groundwater Sample Analytical Results

The analytical results from the November 2011 sampling event indicated that all of the samples from the monitoring wells at the current vehicle maintenance facility and the former Mini Mart station area did not contain petroleum hydrocarbon concentrations greater than the MTCA Method A cleanup levels. Only the samples from the two wells located within backfilled excavation areas contained petroleum hydrocarbon concentrations greater than the MRLs, and those were below the Method A cleanup levels. The groundwater sample analytical results from the November 2011 event, as well as from the previous well sampling event (August 2010), are presented in Table 7. The analytical results from the November 2011 event are also shown on Figures 8 and 9. Copies of the laboratory analytical reports are presented in Appendix B.

4 CONCLUSIONS

From August through November 2011, a remedial action was completed at two areas (the former Mini Mart station area and the current vehicle maintenance facility) of the Stevens Pass ski area property near Skykomish, Washington. The objectives of the remedial action were: 1) to remove the accessible soil that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels, and in doing so, minimize the source of the petroleum hydrocarbon-impacted groundwater, 2) to reduce the risks associated with the inaccessible impacted soil, and 3) to reduce the petroleum hydrocarbon concentrations in the groundwater to below the site groundwater cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable timeframe.

To remediate the impacted soil at the former Mini Mart area and the current vehicle maintenance facility, the accessible soils at each area that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels were excavated and hauled off-site for disposal. There were two areas of soil excavation at the former Mini Mart area and these areas were located beneath and south of the former Mini Mart station (designated the southern Mini Mart area excavation) and to the north of the former maintenance building (designated the northern Mini Mart area excavation). There were also two areas of soil excavation at the vehicle maintenance facility and these areas were located along the north and south sides of the facility building (designated the northern vehicle maintenance facility excavation and the southern vehicle maintenance facility excavation, respectively). Each excavation was extended laterally until the petroleum hydrocarbon concentrations in the final confirmation sidewall samples were below the site soil cleanup levels or until there were potential structural concerns for a nearby building, utility, or other structure. Each excavation was extended vertically to at least one foot below the groundwater table to remove the source of the impacted groundwater and to allow for recovery of the groundwater. However, if the excavation within a specific grid cell did not extend to below the groundwater table, then a floor sample was collected to confirm that the impacted soil had been removed at that location.

A total of 19,864 tons of excavated soil were hauled to the Greater Wenatchee Regional Landfill for disposal. Approximately 16,724 and 3,140 tons of the disposed soil were from the former Mini Mart station excavations and the current vehicle maintenance facility excavations, respectively. Based on the analytical results from the final confirmation sidewall and floor samples from each excavation, the excavation activities

effectively removed all of the accessible soil at each area that contained petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

After completing the soil excavations, there are a total of six remaining localized areas of inaccessible soil at the north end of the current vehicle maintenance building, at the north and south corners of the former maintenance building, and along the eastern edge of the southern Mini Mart area excavation that contain petroleum hydrocarbon concentrations greater than the site soil cleanup levels. To reduce the risks (direct human contact, protection of groundwater, and/or protection of terrestrial ecological organisms) associated with the remaining impacted soil, Wyser installed an 8-inch-thick, reinforced concrete surface cap over each area of impacted soil that was located adjacent to a building. Wyser also installed a 6-inch-thick asphalt surface cap over both areas of impacted soil along the eastern edge of the southern Mini Mart area excavation. The area of each cap, which was based on a conservative estimate of the area of remaining impacted soil, ranged from approximately 24 to 574 square feet. Along the north side of the current vehicle maintenance building and the north and south corners of the former maintenance building, it appears that the remaining impacted soil extends beneath localized areas of the buildings, under existing concrete floors. Institutional controls will be implemented for the remaining locations on the property where the soil contains petroleum hydrocarbon concentrations greater than the site cleanup levels.

To remediate the known petroleum hydrocarbon-impacted groundwater at the current vehicle maintenance facility and the former Mini Mart station area, a total of 465,905 gallons of groundwater were extracted from the open excavations. The total volumes of groundwater pumped from the former Mini Mart station excavations and the current vehicle maintenance facility excavations were approximately 450,505 and 15,400 gallons, respectively. All of the extracted groundwater was pumped into a treatment system that consisted of two to three, 21,000-gallon sediment settling tanks in series, followed by two, 2,000-pound carbon-filled canisters in series. The treated groundwater was reinfiltated to the subsurface via a trench located south of the southern Mini Mart area excavation. By late September, the reinfiltration rate within the trench could not keep up with the groundwater extraction rate, and after obtaining verbal approval from Ecology, the treated groundwater was reinfiltated into the southern end of the southern Mini Mart area excavation. Based on the treatment system sample analytical results, the system effectively reduced the petroleum hydrocarbon concentrations to below the MTCA Method A groundwater cleanup levels prior to reinfiltration.

On November 7, 2011, SLR conducted a groundwater sampling event at the former Mini Mart station area and the current vehicle maintenance facility to evaluate the effectiveness of the remedial action and to begin monitoring the natural attenuation of any remaining petroleum hydrocarbon-impacted groundwater. SLR collected groundwater samples from all of the monitoring wells at the former Mini Mart station area and from all of the monitoring wells at vehicle maintenance facility, except VMW-1, for laboratory analysis. Well VMW-1 was dry at the time of sampling. On November 7, 2011, the general

groundwater flow direction beneath the current vehicle maintenance facility was to the north-northeast, which is consistent with the flow direction during the previous groundwater sampling event conducted in August 2010. The general groundwater flow direction beneath the southern part of the former Mini Mart station area was to the northeast, and the flow direction turned to the east beneath the northern part of the area. Based on the topography of the area, it seems unlikely that the flow direction would turn to the east, and since that flow direction is based on the groundwater elevation in one well, future groundwater monitoring data will be used to further evaluate the flow direction beneath that area.

The groundwater sample analytical results from the November 2011 sampling event showed that all of the samples from the monitoring wells at the former Mini Mart station area and the current vehicle maintenance facility did not contain petroleum hydrocarbon concentrations greater than the MTCA Method A cleanup levels. Only the samples from the two wells (VMW-4 and SMW-4) located within backfilled excavation areas contained petroleum hydrocarbon concentrations greater than the MRLs, and those were below the Method A cleanup levels. The sampling results indicate that the groundwater extraction activities effectively recovered the impacted groundwater within the excavation areas and that the soil excavations appear to have removed the sources of the impacted groundwater.

Based on the final confirmation sidewall and floor sample analytical results from each excavation and the construction of surface caps to minimize the risks associated with the remaining inaccessible petroleum hydrocarbon-impacted soil, SLR believes that no further action is necessary for the soil at the Stevens Pass ski area, pending the implementation of institutional controls and the results of three additional quarterly groundwater sampling events. Stevens Pass plans to conduct groundwater sampling events in February, May, and August 2012 to try to further verify that the groundwater concentrations at the former Mini Mart station area and the current vehicle maintenance facility have been reduced to below the MTCA Method A cleanup levels.

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.

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TABLES

Table 1
Excavation Sample Analytical Results
Current Vehicle Maintenance Facility
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	100 ^e	460 ^f	2,000 ^e
Southern Vehicle Maintenance Facility Excavation									
SVNSW-A1-3 ^g	08/30/11	3	<0.02	<0.02	<0.02	<0.06	35	200	<250
SVNSW(2)-A1-3	09/02/11	3	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVESW-A1-3	08/30/11	3	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVWSW-A1-5	08/30/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVWSW-A2-7	08/31/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVSSW-A2-7	08/31/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVNSW-B1-7	08/31/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVSSW-B2-7	09/01/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVNSW-C1-7	09/01/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVSSW-C2-7	09/01/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVNSW-D1-7	09/02/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVESW-D1-4	09/02/11	4	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVESW-D2-7	09/02/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
SVSSW-D2-7	09/02/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
Northern Vehicle Maintenance Facility Excavation									
NVESW-A2-3	09/22/11	3	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NVF-A2-3	09/22/11	3	<0.02	<0.02	<0.02	<0.06	4.6	<50	<250
NVSSW-A2-3	09/22/11	3	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NVF-B2-7	09/22/11	7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NVNSW-B2-5	09/22/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NVSSW-B2-5	09/22/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NVESW-C1-5	10/19/11	5	<0.02 ^h	<0.1	1.5	1.6	1,200	8,700	420
NVESW-C1-13	10/19/11	13	<0.02 ^h	<0.1	<0.1	2.1	800	4,500	<250
NVSSW-C2-5	10/19/11	5	<0.02	<0.02	0.11	0.77	390	8,200	490
NVSSW-C2-13	10/19/11	13	<0.02	<0.02	0.84	0.67	520	5,300	310

Table 1
Excavation Sample Analytical Results
Current Vehicle Maintenance Facility
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)	
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	100 ^e	460 ^f	2,000 ^e	
Northern Vehicle Maintenance Facility Excavation (Continued)										
NVNSW-C3-5	09/28/11	5	<0.02	0.026	<0.02	<0.06	<2	<50	<250	
NVNSW-C3-15	09/28/11	15	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVSSW-D1-5	10/19/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVSSW-D1-13	10/19/11	13	<0.02	<0.02	<0.02	<0.06	5.4	180	320	
NVWSW-D2-11	10/11/11	11	<0.02	<0.02	<0.02	<0.06	<2	74	<250	
NVWSW-D3-5	10/11/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVWSW-D3-11	10/11/11	11	<0.02	<0.02	<0.02	<0.06	<2	110	<250	
NVNSW-D4-5	09/28/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVNSW-D4-15	09/28/11	15	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVWSW-E1-5	10/19/11	5	<0.02	<0.02	<0.02	<0.06	<2	180	<250	
NVWSW-E1-13	10/19/11	13	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	
NVWSW-E2-5	10/11/11	5	<0.02	0.032	0.030	0.11	10	<50	<250	
<p>NOTES:</p> <p>mg/kg = milligrams per kilogram (ppm).</p> <p>Values in bold exceed the soil cleanup levels.</p> <p>Sample names in <i>italics</i> represent sample locations that were subsequently excavated to remove petroleum hydrocarbon concentrations greater than the site soil cleanup levels.</p> <p>^aBenzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.</p> <p>^bGasoline-range organics (GRO) by Ecology Method NWTPH-Gx.</p> <p>^cDiesel-range organics (DRO) and heavy oil-range organics (HO) by Ecology Method NWTPH-Dx (after silica gel cleanup).</p> <p>^dSite soil cleanup levels are Model Toxics Control Act (MTCA) Method A cleanup levels or terrestrial ecological evaluation-based cleanup levels, whichever are lower.</p> <p>^eChapter 173-340 WAC, MTCA Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.</p> <p>^fCleanup level is based on protection of terrestrial ecological risks at an unrestricted land use property (Table 749-2 of MTCA Cleanup Regulation).</p> <p>^gSample location was excavated to remove GRO-impacted soil; however, the soil cleanup level was subsequently increased from 30 to 100 mg/kg due to the lack of detectable benzene concentrations and the total ethylbenzene, toluene, and xylenes concentrations are less than 1 percent of the GRO concentrations.</p> <p>^hAfter the initial benzene analysis was less than 0.1 mg/kg, the sample was re-analyzed after the holding time had expired.</p>										

Table 2
Excavation Sample Analytical Results
Southern Mini Mart Area Excavation
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	30 ^e	460 ^f	2,000 ^e
MSW-A3-5	09/13/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-A3-10	09/13/11	10	<0.02	<0.02	0.10	<0.06	9.7	<50	<250
MSW-B2-5	09/02/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-B2-10	09/02/11	10	<0.02	0.022	<0.02	<0.06	<2	<50	<250
MSW-B4-5	09/14/11	5	<0.02	<0.02	<0.02	0.31	32	310	<250
MSW(2)-B4-5	09/16/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-B4-10	09/14/11	10	<0.02	0.029	<0.02	<0.06	<2	61	310
MSW-B5-5	09/14/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-B5-10	09/14/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-C2-5	09/02/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-C2-10	09/02/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-C5-5	09/09/11	5	<0.02	<0.02	0.44	0.30	120	270	<250
MSW-C5-10	09/09/11	10	<0.02 ^g	<0.1	0.41	1.70	390	250	<250
MSW-C6-5	09/15/11	5	<0.02	<0.02	0.054	0.096	8.0	<50	<250
MSW-C6-10	09/15/11	10	<0.02	0.030	<0.02	<0.06	<2	65	<250
MSW-D1-5	09/06/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-D1-10	09/06/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-D5-5	10/12/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-D5-10	10/12/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-E2-5	09/07/11	5	<0.02	0.045	<0.02	0.084	<2	<50	<250
MSW-E2-10	09/07/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-E5-5	10/12/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-E5-10	10/12/11	10	<0.02	<0.02	0.052	<0.06	58	<50	<250
MSW-E6-10	10/17/11	10	<0.02	<0.02	0.92	1.4	150	880	<250
MSW(2)-E6-10	10/25/11	10	<0.02	<0.02	0.16	0.12	93	650	<250

Table 2
Excavation Sample Analytical Results
Southern Mini Mart Area Excavation
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	30 ^e	460 ^f	2,000 ^e
MSW-F1-5	09/13/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-F1-9	09/13/11	9	<0.02	0.053	<0.02	0.069	11	<50	<250
MSW-F5-5	10/12/11	5	<0.02	<0.02	<0.02	<0.06	6.2	<50	<250
MSW-F5-10	10/12/11	10	<0.02	<0.02	<0.02	<0.06	3.1	<50	<250
MSW-G1-5	09/02/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-G1-10	09/02/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-G6-5	10/17/11	5	<0.02	<0.02	<0.02	<0.06	<2	61	<250
MSW-G6-10	10/17/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-H1-5	10/14/11	5	<0.02	<0.02	<0.02	<0.06	<2	66	<250
MSW-H1-10	10/14/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-H6-5	10/17/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-H6-10	10/17/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-I2-5	10/07/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-I2-9	10/07/11	9	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-I6-5	10/17/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-I6-10	10/17/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MNSW-J2-5	10/07/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MNSW-J2-9	10/07/11	9	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MWSW-J2-5	10/07/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MWSW-J2-9	10/07/11	9	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-J3-5	10/07/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-J3-9	10/07/11	9	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-J4-5	10/10/11	5	<0.02 ^g	3.2	5.1	19	1,500	2,400	740
MSW-J4-9	10/10/11	9	0.037^g	1.3	1.7	6.3	530	400	400
MF-J4-8	10/10/11	8	<0.02	<0.02	<0.02	<0.06	<2	<50	<250

Table 2
Excavation Sample Analytical Results
Southern Mini Mart Area Excavation
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	30 ^e	460 ^f	2,000 ^e
MSW-J6-5	10/17/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-J6-10	10/17/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MWSW-K4-5	10/20/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MWSW-K4-10	10/20/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MESW-K4-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MESW-K4-10	10/21/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-K5-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
<i>MSW-K5-10</i>	10/21/11	10	<0.02	<0.02	<0.02	0.13	17	930	<250
MSW(2)-K5-10	10/27/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
MSW-K6-5	10/25/11	5	<0.02	<0.02	<0.02	0.48	<2	<50	<250
MSW-K6-10	10/25/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250

NOTES:

mg/kg = milligrams per kilogram (ppm).

Values in **bold** exceed the soil cleanup levels.

Sample names in *italics* represent sample locations that were subsequently excavated to remove petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

^aBenzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.

^bGasoline-range organics (GRO) by Ecology Method NWT PH-Gx.

^cDiesel-range organics (DRO) and heavy oil-range organics (HO) by Ecology Method NWT PH-Dx (after silica gel cleanup).

^dSite soil cleanup levels are Model Toxics Control Act (MTCA) Method A cleanup levels or terrestrial ecological evaluation-based cleanup levels, whichever are lower.

^eChapter 173-340 WAC, MTCA Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.

^fCleanup level is based on protection of terrestrial ecological risks at an unrestricted land use property (Table 749-2 of MTCA Cleanup Regulation).

^gAfter the initial analyzed benzene concentration was less than 0.1 mg/kg, the sample was re-analyzed to determine if the benzene concentration was below the Method A cleanup level. The second analysis was conducted after the holding time had expired.

Table 3
Stockpile Sample Analytical Results
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

Stockpile Number	Sample Name	Date Collected	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	30 ^e	460 ^f	2,000 ^e
SP1	SP1-8-6-27-4	09/07/11	<0.02	<0.02	<0.02	<0.06	<2	66	550
SP1	SP1-12-5-22-2	09/07/11	<0.02	<0.02	<0.02	<0.06	<2	81	670
SP1	SP1-23-10-6-6	09/07/11	<0.02	<0.02	<0.02	<0.06	<2	70	590
SP1	SP1-6-4-16-2	09/07/11	<0.02	<0.02	<0.02	<0.06	<2	83	770
SP1	SP1-36-4-3-3	09/07/11	<0.02	<0.02	<0.02	<0.06	<2	79	560

NOTES:
mg/kg = milligrams per kilogram (ppm).
^aBenzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.
^bGasoline-range organics (GRO) by Ecology Method NWTPH-Gx.
^cDiesel-range organics (DRO) and heavy oil-range organics (HO) by Ecology Method NWTPH-Dx (after silica gel cleanup).
^dSite soil cleanup levels are Model Toxics Control Act (MTCA) Method A cleanup levels or terrestrial ecological evaluation-based cleanup levels, whichever are lower.
^eChapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.
^fCleanup level is based on protection of terrestrial ecological risks at an unrestricted land use property (Table 749-2 of MTCA Cleanup Regulation).

Table 4
Excavation Sample Analytical Results
Northern Mini Mart Area Excavation
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

Sample Name	Date Collected	Approximate Sample Depth (feet)	Benzene ^a (mg/kg)	Toluene ^a (mg/kg)	Ethylbenzene ^a (mg/kg)	Total Xylenes ^a (mg/kg)	GRO ^b (mg/kg)	DRO ^c (mg/kg)	HO ^c (mg/kg)
Site Soil Cleanup Levels ^d			0.03 ^e	7 ^e	6 ^e	9 ^e	100 ^e	460 ^f	2,000 ^e
Water Trench-6	08/31/11	6	<0.02	<0.02	3.4	4.8	1,700	16,000	<250
Water Trench-10	08/31/11	10	<0.02	<0.02	<0.02	<0.06	3.9	<50	<250
NMSW-L2-5	10/27/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMSSW-M2-5	10/20/11	5	<0.02	<0.02	0.031	<0.06	5.9	850	<250
NMSSW-M2-10	10/20/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMWSW-M2-5	10/20/11	5	<0.02	<0.02	0.071	<0.06	20	3,600	<250
NMWSW(2)-M2-5	10/25/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMWSW-M2-10	10/20/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMESW-M3-5	10/20/11	5	<0.02	<0.02	<0.02	0.11	21	<50	<250
NMESW-M3-10	10/20/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMSSW-M3-5	10/20/11	5	<0.02	<0.02	0.068	0.10	91	2,400	1,100
NMSSW(2)-M3-5	10/26/11	5	<0.02	0.054	0.080	<0.06	63	1,000	390
NMSW-N2-5	10/19/11	5	<0.02	<0.02	<0.02	<0.06	<2	90	<250
NMSW-N2-10	10/19/11	10	<0.02	<0.02	<0.02	<0.06	<2	100	<250
NMNSW-N3-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	7.5	<50	<250
NMESW-N3-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	<2	120	330
NMESW-N3-10	10/21/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMFL-N3-5	10/21/11	5	<0.02	<0.02	0.052	<0.06	59	500	<250
NMFL-N3-8	10/26/11	8	<0.02	<0.02	<0.02	0.83	72	<50	<250
NMNSW-O2-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	9	<50	<250
NMNSW-O2-10	10/21/11	10	<0.02	<0.02	<0.02	<0.06	7.6	930	<250
NMWSW-O2-5	10/21/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMWSW-O2-10	10/21/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMSW-O3-5 ^g	10/21/11	5	<0.02	<0.02	<0.02	<0.06	34	<50	<250
NMSW(2)-O3-5	10/26/11	10	<0.02	<0.02	<0.02	<0.06	19	270	<250
NMSW-O3-10	10/21/11	5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250
NMSW-P2-10	10/26/11	10	<0.02	<0.02	<0.02	<0.06	<2	<50	<250

Table 4
Excavation Sample Analytical Results
Northern Mini Mart Area Excavation
Former Mini Mart Station Area
Stevens Pass Ski Area
Skykomish, Washington

NOTES:

mg/kg = milligrams per kilogram (ppm).

Values in **bold** exceed the soil cleanup levels.

Sample names in *italics* represent sample locations that were subsequently excavated to remove petroleum hydrocarbon concentrations greater than the site soil cleanup levels.

^a Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.

^b Gasoline-range organics (GRO) by Ecology Method NWTPH-Gx.

^c Diesel-range organics (DRO) and heavy oil-range organics (HO) by Ecology Method NWTPH-Dx (after silica gel cleanup).

^d Site soil cleanup levels are Model Toxics Control Act (MTCA) Method A cleanup levels or terrestrial ecological evaluation-based cleanup levels, whichever are lower.

^e Chapter 173-340 WAC, MTCA Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.

^f Cleanup level is based on protection of terrestrial ecological risks at an unrestricted land use property (Table 749-2 of MTCA Cleanup Regulation).

^g Sample location was excavated to remove GRO-impacted soil; however, the soil cleanup level was subsequently increased from 30 to 100 mg/kg due to the lack of detectable benzene concentrations and the total ethylbenzene, toluene, and xylenes concentrations are less than 1 percent of the GRO concentrations.

Table 5
Groundwater Treatment System Sample Analytical Results
Stevens Pass Ski Area
Skykomish, Washington

Date	Sample Location	Sample Name	Benzene ^a (µg/L)	Toluene ^a (µg/L)	Ethylbenzene ^a (µg/L)	Total Xylenes ^a (µg/L)	GRO ^b (µg/L)	DRO ^c (µg/L)	HO ^c (µg/L)
MTCA Method A Groundwater Cleanup Levels ^d			5	1,000	700	1,000	800	500	500
08/29/11	Influent - First Carbon	Pre Carbon-82911	11	60	78	450	3,900	2,000	<250
	Effluent - First Carbon	Carbon2-Influent-82911	<1	<1	<1	<3	<100	65	<250
	Effluent - Second Carbon	System Effluent-82911	<1	<1	<1	<3	<100	<50	<250
09/02/11	Influent - First Carbon	Pre Carbon-9211	4.4	14	5.1	150	1,100	99	<251
	Effluent - First Carbon	Carbon2-Influent-9211	<1	<1	<1	<3	<100	<50	<250
	Effluent - Second Carbon	System Effluent-9211	<1	<1	<1	<3	<100	<50	<250
09/09/11	Influent - First Carbon	Pre Carbon-090911	1.4	2.4	<1	26	250	76	<250
	Effluent - First Carbon	Carbon2-Influent-090911	7.3	11	1.1	7.9	<100	<50	<250
	Effluent - Second Carbon	System Effluent-090911	<1	3.2	<1	<3	<100	<50	<250
09/14/11	Influent - First Carbon	Pre Carbon-91411	<1	1.0	1.2	7.3	120	66	<250
	Effluent - First Carbon	Carbon2-Influent-91411	<1	<1	<1	<3	<100	<50	<250
	Effluent - Second Carbon	System Effluent-91411	<1	<1	<1	<3	<100	<50	<250
09/21/11	Influent - First Carbon	Pre Carbon-92111	6.8	19	29	220	1,900	360	<250
	Effluent - First Carbon	Carbon2-Influent-92111	<1	1.3	<1	<3	<100	<50	<250
	Effluent - Second Carbon	System Effluent-92111	<1	1.4	<1	<3	<100	<50	<250
09/27/11	Influent - First Carbon	Pre Carbon-92711	4.9	12	6.1	150	1,500	530	<250
	Effluent - First Carbon	Carbon2-Influent-92711	<1	<1	<1	<3	<100	83	<250
	Effluent - Second Carbon	System Effluent-92711	<1	<1	<1	<3	<100	<50	<250
10/03/11	Influent - First Carbon	Pre Carbon-10311	2.3	3.1	3.0	83	1,100	300	<250
	Effluent - First Carbon	Carbon2-Influent-10311	2.3	6.1	<1	7.2	<100	<50	<250
	Effluent - Second Carbon	System Effluent-10311	<1	<1	<1	<3	<100	<50	<250
10/07/11	Influent - First Carbon	Pre Carbon-10711	4.8	15	20	170	2,400	380	<250
	Effluent - First Carbon	Carbon2-Influent-10711	<1	<1	<1	<3	<100	<50	<250
	Effluent - Second Carbon	System Effluent-10711	<1	<1	<1	<3	<100	<50	<250
10/19/11	Influent - First Carbon	Pre Carbon-101911	<1	2.9	1.9	30	760	220	<250
	Effluent - First Carbon	Carbon2-Influent-101911	<1	<1	<1	<3	<100	110	<250
	Effluent - Second Carbon	System Effluent-101911	<1	<1	<1	<3	<100	<50	<250
10/31/11	Effluent - Second Carbon	System Effluent-103111	<1	<1	<1	<3	<100	<50	<250

Notes:
µg/L = micrograms per liter (ppb).
Values in **bold** exceed the groundwater cleanup levels.
^aBenzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B.
^bGasoline-range organics (GRO) by Northwest Method NWTPH-Gx.
^cDiesel-range organics (DRO) and heavy oil-range organics (HO) by Northwest Method NWTPH-Dx.
^dChapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.

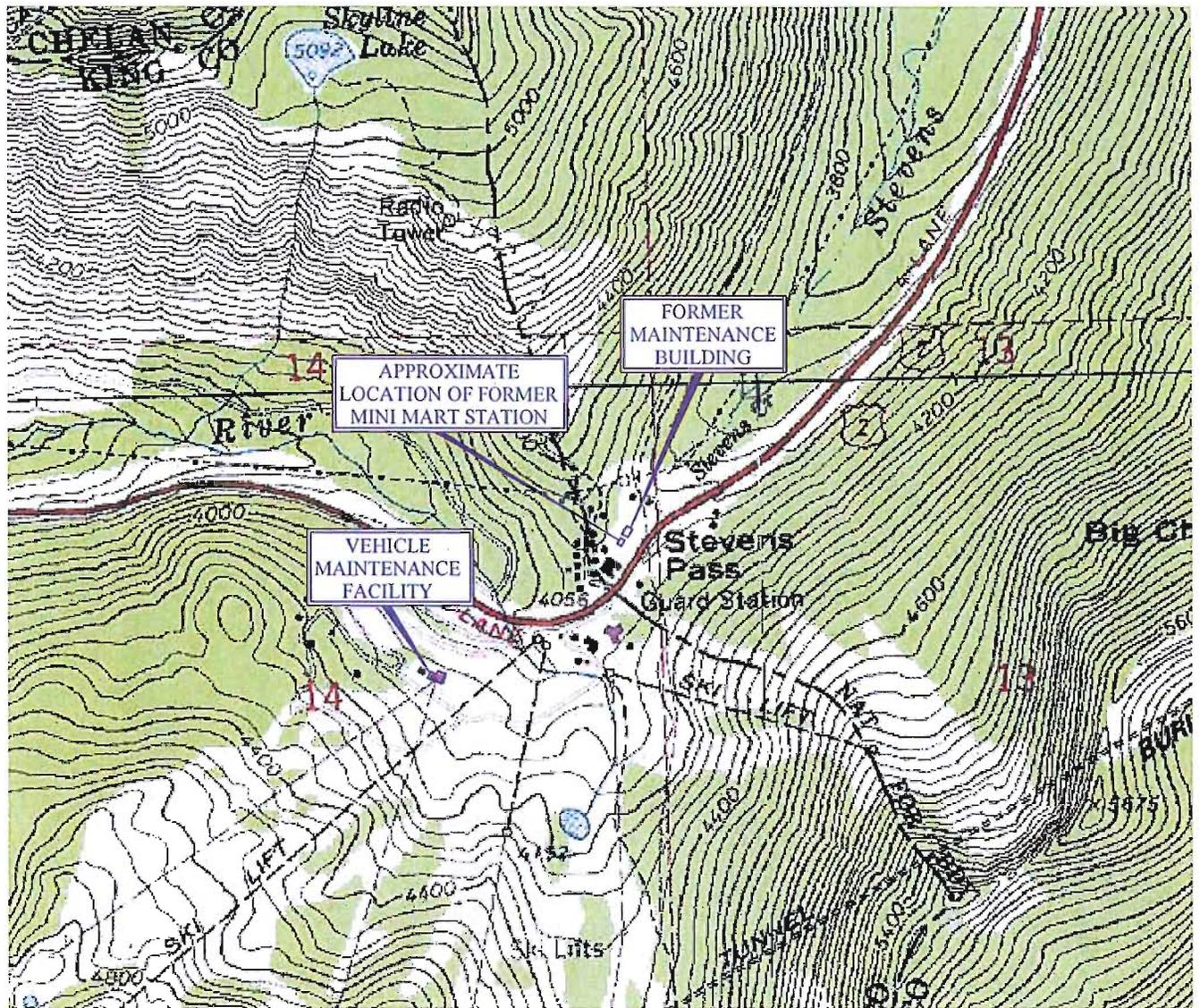
Table 6
Groundwater Monitoring Data
Stevens Pass Ski Area
Skykomish, Washington

Well ID	Elevation ^a (feet)	Date	Depth to Groundwater ^b (feet)	Groundwater Elevation (feet)
Current Vehicle Maintenance Facility				
VMW-1	983.82	8/16/10	Dry	< 970.12
	983.19 ^c	11/7/11	Dry	<969.51
VMW-2	991.61	8/16/10	10.10	981.51
	990.86 ^c	11/7/11	6.43	984.43
VMW-3	996.08	8/16/10	11.76	984.32
	995.34 ^c	11/7/11	6.58	988.76
VMW-4	987.89	11/7/11	5.92	981.97
Former Mini Mart Station Area				
SMW-1	938.34	8/16/10	10.00	928.34
SMW-1R	938.12	11/7/11	4.82	933.30
SMW-2	937.41	8/16/10	9.82	927.59
	936.73 ^c	11/7/11	5.51	931.22
SMW-3	933.01	8/16/10	5.88	927.13
	932.11 ^c	11/7/11	4.71	927.40
SMW-4	935.92	11/7/11	4.51	931.41
SMW-5	931.98	11/7/11	3.52	928.46
NOTES:				
^a Top of well casings surveyed relative to arbitrary site datum by Harmsen and Associates on August 16, 2010 and November 7, 2011. The site datum (southeast corner of concrete electrical transformer pad located approximately 100 feet west of southwest corner of shop building) was assigned an elevation of 1,000.00 feet.				
^b Depths to groundwater measured from the top of each well casing by using an electronic water level meter.				
^c Well elevation was resurveyed after a small section was cut from the top of the well.				

Table 7
Groundwater Sample Analytical Results
Stevens Pass Ski Area
Skykomish, Washington

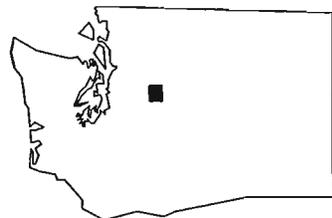
Monitoring Well Number	Sample Name	Date Collected	Analytical Results (µg/L)						
			Benzene ^a	Toluene ^a	Ethylbenzene ^a	Total Xylenes ^a	GRO ^b	DRO ^c	HO ^c
MTCA Method A Cleanup Levels^d			5	1,000	700	1,000	800	500	500
Current Vehicle Maintenance Facility									
VMW-2	VMW2-0810	8/16/10	<1	<1	<1	<3	<100	<50	<250
	VMW2-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
VMW-3	VMW3-0810	8/16/10	<1	<1	<1	3.60	110	120	<250
	VMW3-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
VMW-4	VMW4-110711	11/7/11	2.0	<1	<1	22	100	<50	<250
Former Mini Mart Station Area									
SMW-1	SMW1-0810	8/16/10	<1	<1	<1	<3	<100	<50	<250
SMW-1R	SMW-1R-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
SMW-2	SMW2-0810	8/16/10	<1	<1	<1	<3	<100	<50	<250
	SMW-2-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
SMW-3	SMW3-0810	8/16/10	<1	<1	<1	<3	<100	<50	<250
	SMW-3-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
SMW-4	SMW-4-110711	11/7/11	<1	1.20	<1	<3	140	140	<250
SMW-5	SMW-5-110711	11/7/11	<1	<1	<1	<3	<100	<50	<250
NOTES:									
µg/L = micrograms per liter (ppb).									
^a Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B.									
^b Gasoline-range organics (GRO) by Ecology Method NWTPH-Gx.									
^c Diesel-range organics (DRO) and heavy oil-range organics (HO) by Ecology Method NWTPH-Dx (after silica gel cleanup).									
^d Chapter 173-340 WAC, Model Toxics Control Act (MTCA) Cleanup Regulation, Method A Cleanup Levels. Amended February 12, 2001.									

FIGURES



0 1300 2600

SCALE IN FEET



WASHINGTON

USGS 7.5 MINUTE QUADRANGLE, STEVENS PASS WASHINGTON, 1987

SLR



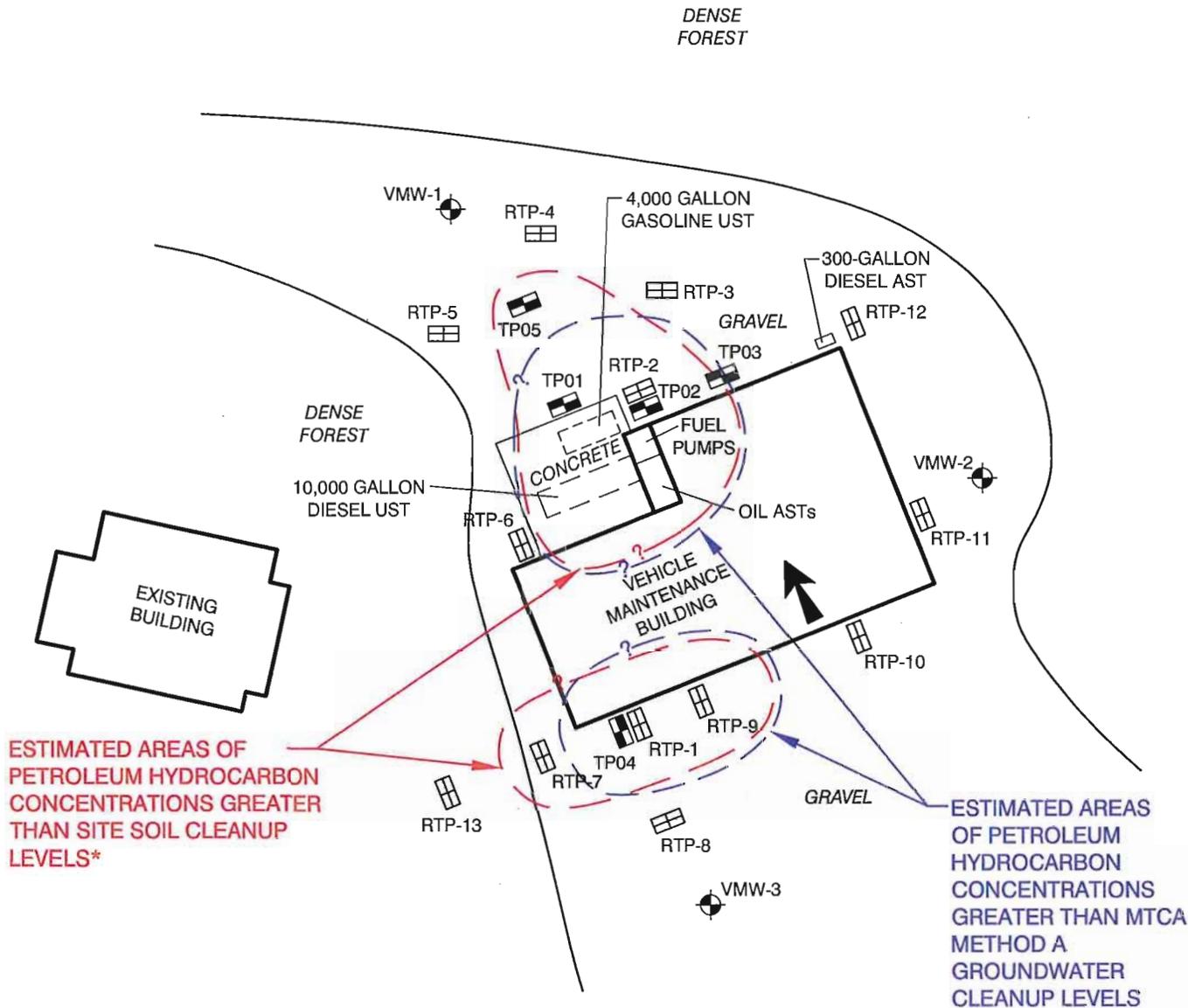
22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800
F: 425-402-8488

DATE 6/10
DWN. EMG
APPR. MBS
REVIS. _____
PROJECT NO.
101.0418.00005

FIGURE 1
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
LOCATIONS OF VEHICLE MAINTENANCE
FACILITY, FORMER MINI MART STATION AND
FORMER MAINTENANCE BUILDING

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ESTIMATED AREAS OF PETROLEUM HYDROCARBON CONCENTRATIONS GREATER THAN SITE SOIL CLEANUP LEVELS*

ESTIMATED AREAS OF PETROLEUM HYDROCARBON CONCENTRATIONS GREATER THAN MTCA METHOD A GROUNDWATER CLEANUP LEVELS

LEGEND

- RTP-1 SLR TEST PIT LOCATION
- TP06 PREVIOUS TEST PIT LOCATION
- VMW-2 GROUNDWATER MONITORING WELL LOCATION
- GENERAL GROUNDWATER FLOW DIRECTION

NOTE:
 * = THE SITE SOIL CLEANUP LEVELS ARE MTCA METHOD A CLEANUP LEVELS OR TEE-BASED CLEANUP LEVELS, WHICHEVER ARE LOWER.

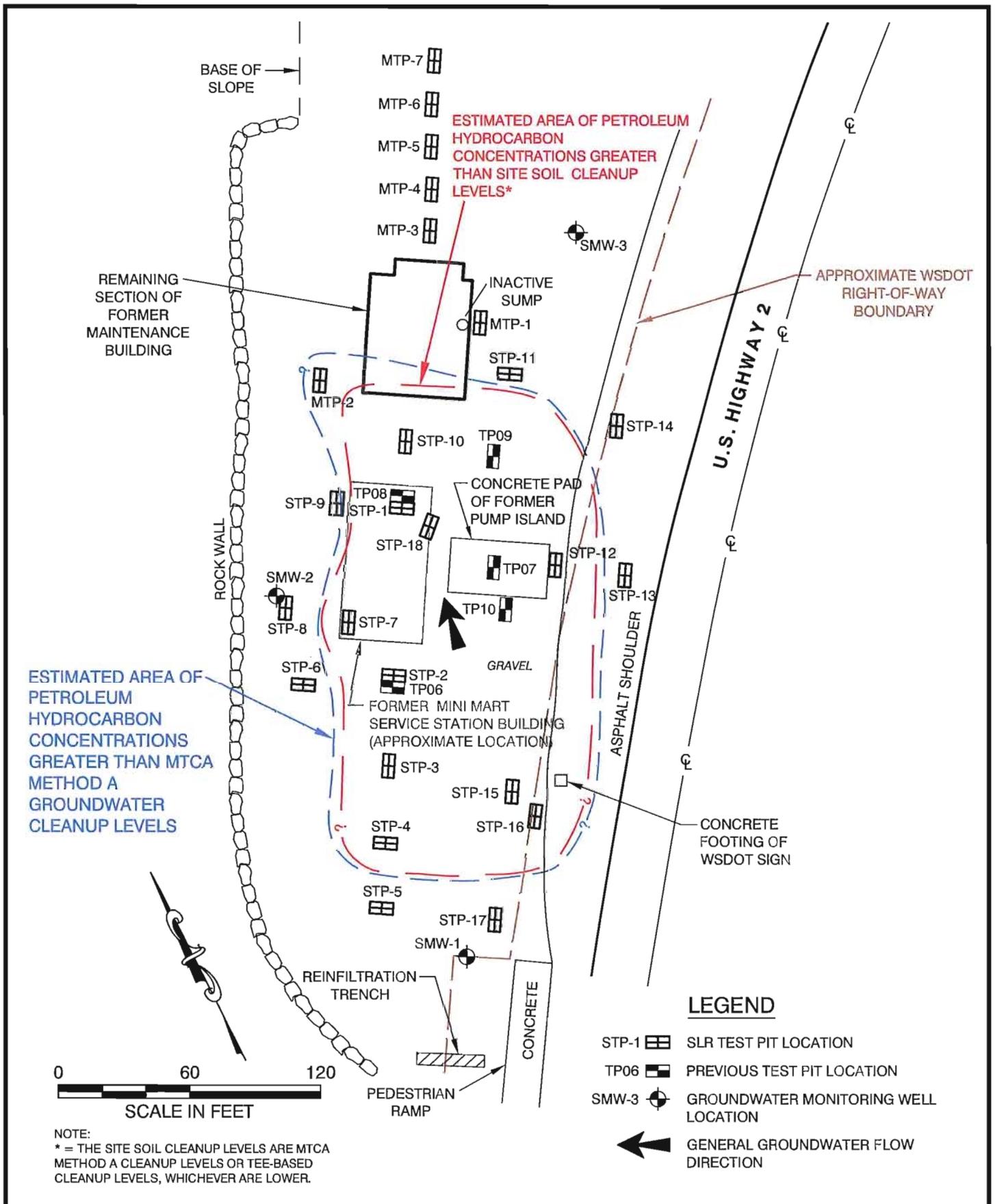
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APPR.	MDS
REVIS.	
PROJECT NO.	101.00418.00005

FIGURE 2
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
ESTIMATED AREAS OF HYDROCARBON
IMPACTED SOIL AND GROUNDWATER -
CURRENT VEHICLE MAINTENANCE FACILITY



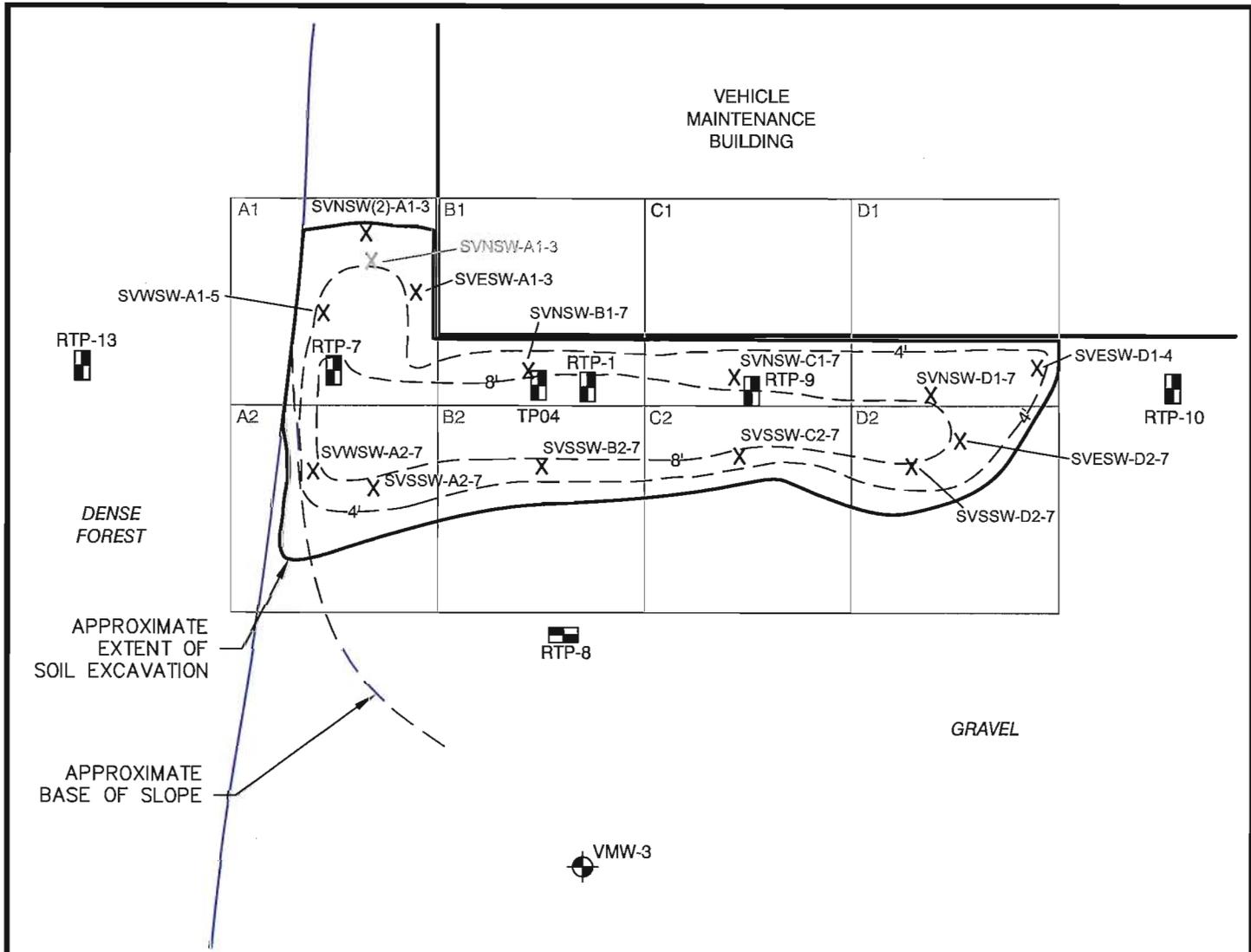
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FIGURE 3
 STEVENS PASS SKI RESORT
 SKYKOMISH, WASHINGTON
ESTIMATED AREAS OF HYDROCARBON IMPACTED SOIL AND GROUNDWATER - FORMER MINI MART STATION AREA



LEGEND

- A1 SAMPLE GRID CELL LOCATION AND DESIGNATION
- TP04 PREVIOUS TEST PIT LOCATION
- VMW-3 GROUNDWATER MONITORING WELL LOCATION
- APPROXIMATE EXTENT OF SOIL EXCAVATION
- DEPTH OF SOIL EXCAVATION CONTOUR LINE (IN FEET BELOW GROUND SURFACE)
- SVSSW-A2-7 FINAL EXCAVATION SIDEWALL SAMPLE LOCATION AND DESIGNATION
- SVNSW-A1-3 EXCAVATION SAMPLE LOCATION THAT WAS SUBSEQUENTLY EXCAVATED

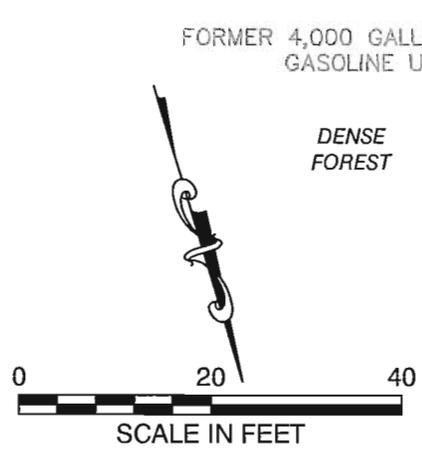
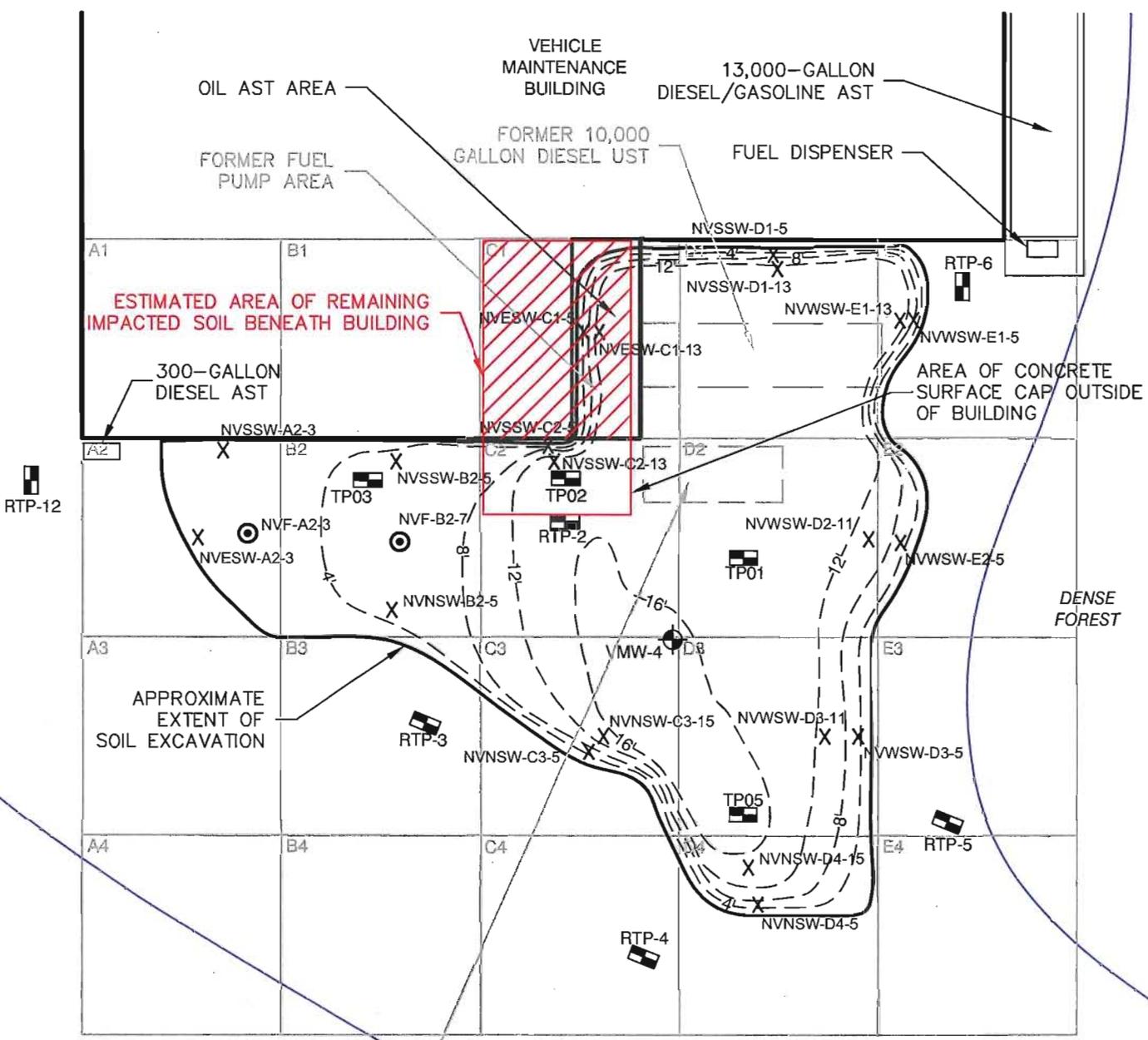
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FIGURE 4
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
APPROXIMATE AREA OF
SOUTHERN VEHICLE
MAINTENANCE FACILITY EXCAVATION



LEGEND

- A1 SAMPLE GRID CELL LOCATION AND DESIGNATION
- TP06 PREVIOUS TEST PIT LOCATION
- VMW-2 GROUNDWATER MONITORING WELL LOCATION
- APPROXIMATE EXTENT OF SOIL EXCAVATION
- DEPTH OF SOIL EXCAVATION CONTOUR LINE (IN FEET BELOW GROUND SURFACE)
- NVF-A2-3 FINAL EXCAVATION FLOOR SAMPLE LOCATION AND DESIGNATION
- NVESW-A2-3 FINAL EXCAVATION SIDEWALL SAMPLE LOCATION AND DESIGNATION

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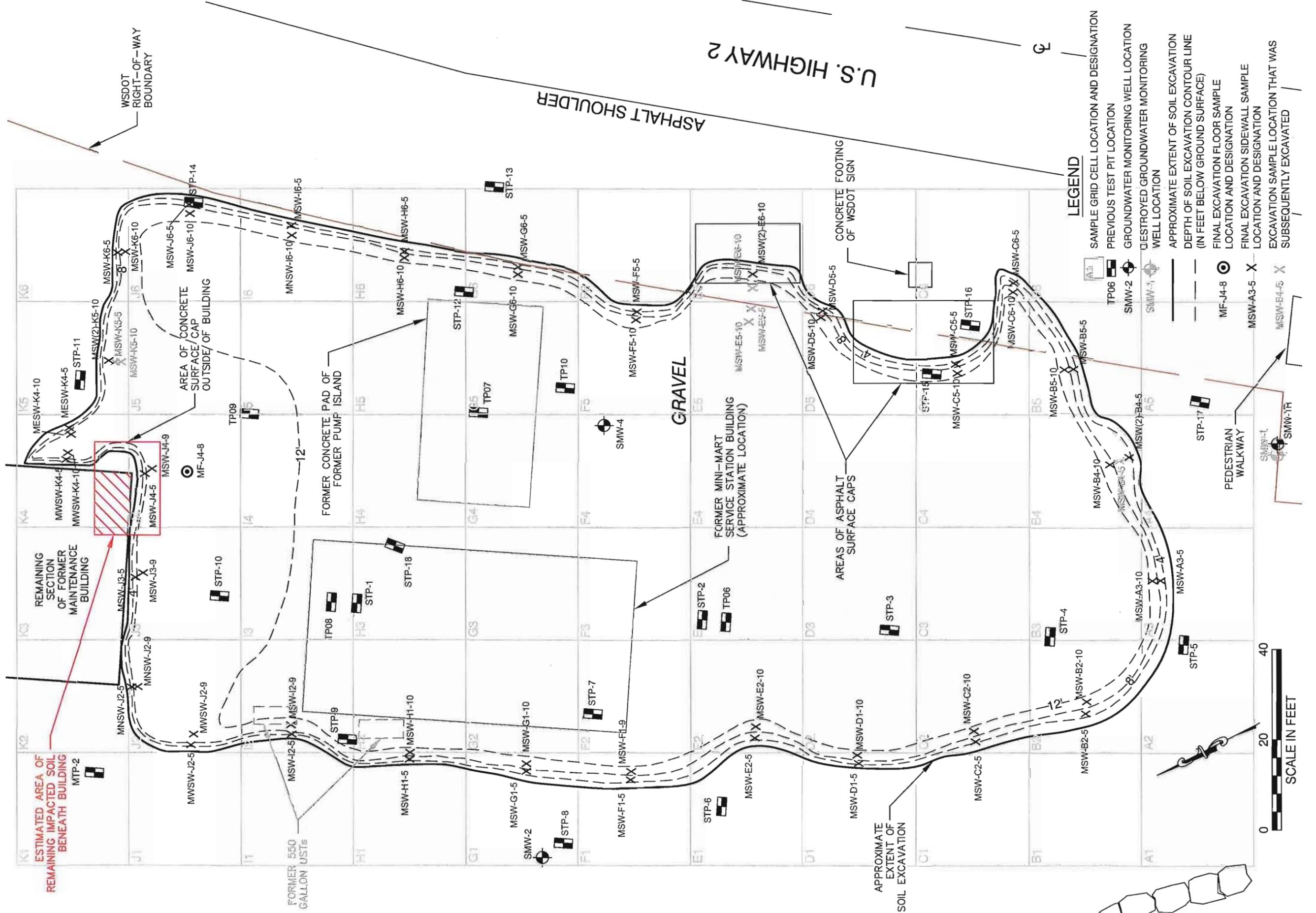
SLR

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F: 425-402-8488

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DWN.	JSM
APPR.	MDS
REVIS.	
PROJECT NO.	101.00418.00005

FIGURE 5
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
APPROXIMATE AREA OF
NORTHERN VEHICLE MAINTENANCE
FACILITY EXCAVATION



LEGEND

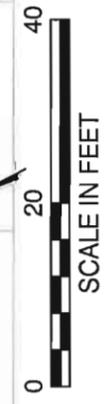
- SAMPLE GRID CELL LOCATION AND DESIGNATION
- PREVIOUS TEST PIT LOCATION
- GROUNDWATER MONITORING WELL LOCATION
- DESTROYED GROUNDWATER MONITORING WELL LOCATION
- APPROXIMATE EXTENT OF SOIL EXCAVATION
- DEPTH OF SOIL EXCAVATION CONTOUR LINE (IN FEET BELOW GROUND SURFACE)
- FINAL EXCAVATION FLOOR SAMPLE LOCATION AND DESIGNATION
- FINAL EXCAVATION SIDEWALL SAMPLE LOCATION AND DESIGNATION
- EXCAVATION SAMPLE LOCATION THAT WAS SUBSEQUENTLY EXCAVATED

DATE 11/11
 DWN. JSM
 APPR. *ads*
 REVIS.
 PROJECT NO. 101.00418.00005

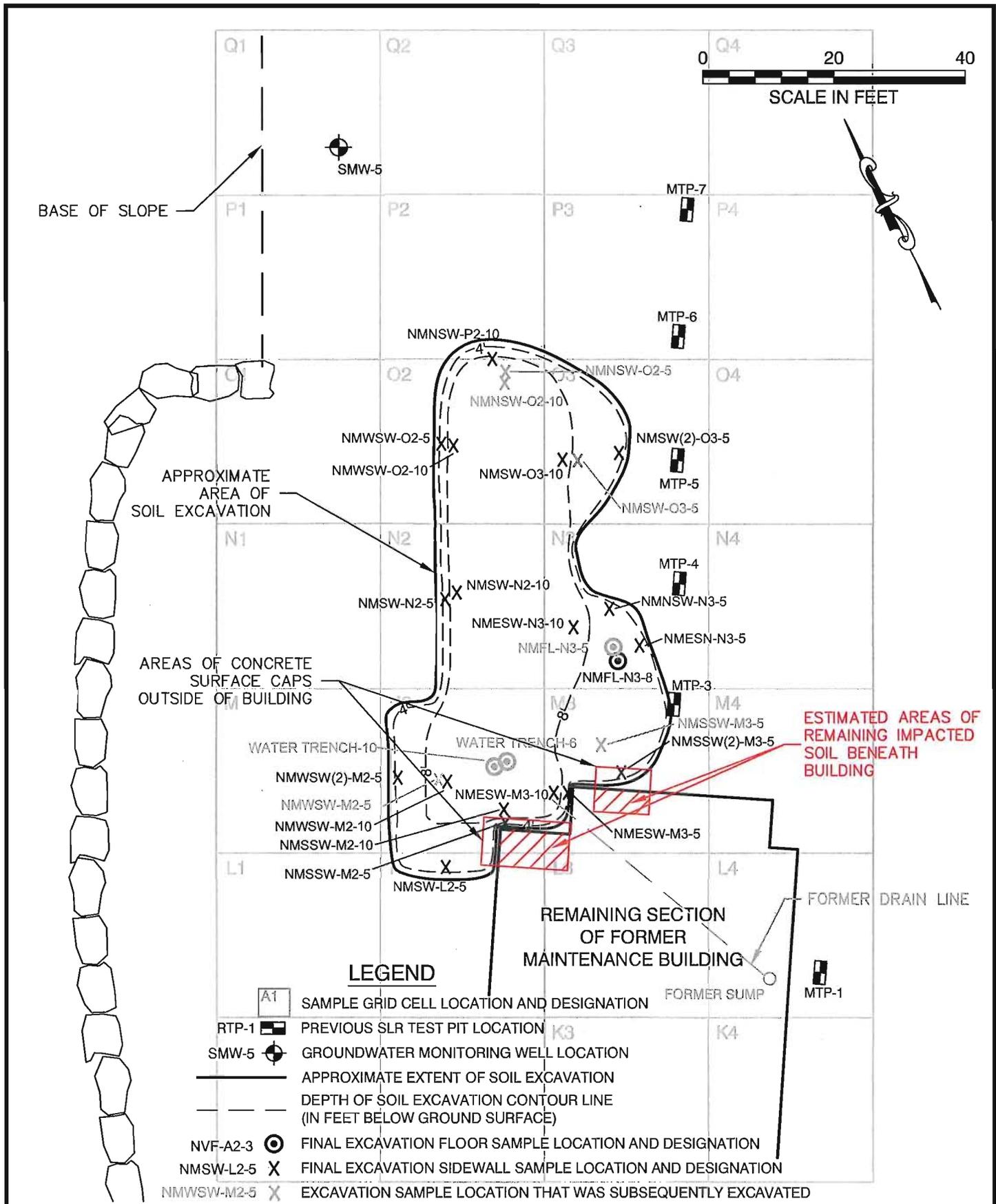
22118 20th AVE SE
 BLDG. G, SUITE 202
 BOTHELL, WA 98021
 T: 425-402-8800
 F: 425-402-8488



FIGURE 6
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
APPROXIMATE AREA OF SOUTHERN
MINI MART AREA EXCAVATION



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LEGEND

- A1 SAMPLE GRID CELL LOCATION AND DESIGNATION
- RTP-1 PREVIOUS SLR TEST PIT LOCATION
- SMW-5 GROUNDWATER MONITORING WELL LOCATION
- APPROXIMATE EXTENT OF SOIL EXCAVATION
- DEPTH OF SOIL EXCAVATION CONTOUR LINE (IN FEET BELOW GROUND SURFACE)
- NVF-A2-3 FINAL EXCAVATION FLOOR SAMPLE LOCATION AND DESIGNATION
- NMSW-L2-5 FINAL EXCAVATION SIDEWALL SAMPLE LOCATION AND DESIGNATION
- NMWSW-M2-5 EXCAVATION SAMPLE LOCATION THAT WAS SUBSEQUENTLY EXCAVATED

N:\Portland\Figures\Bothell\STEVENS\101.00418.00005 F7.dwg

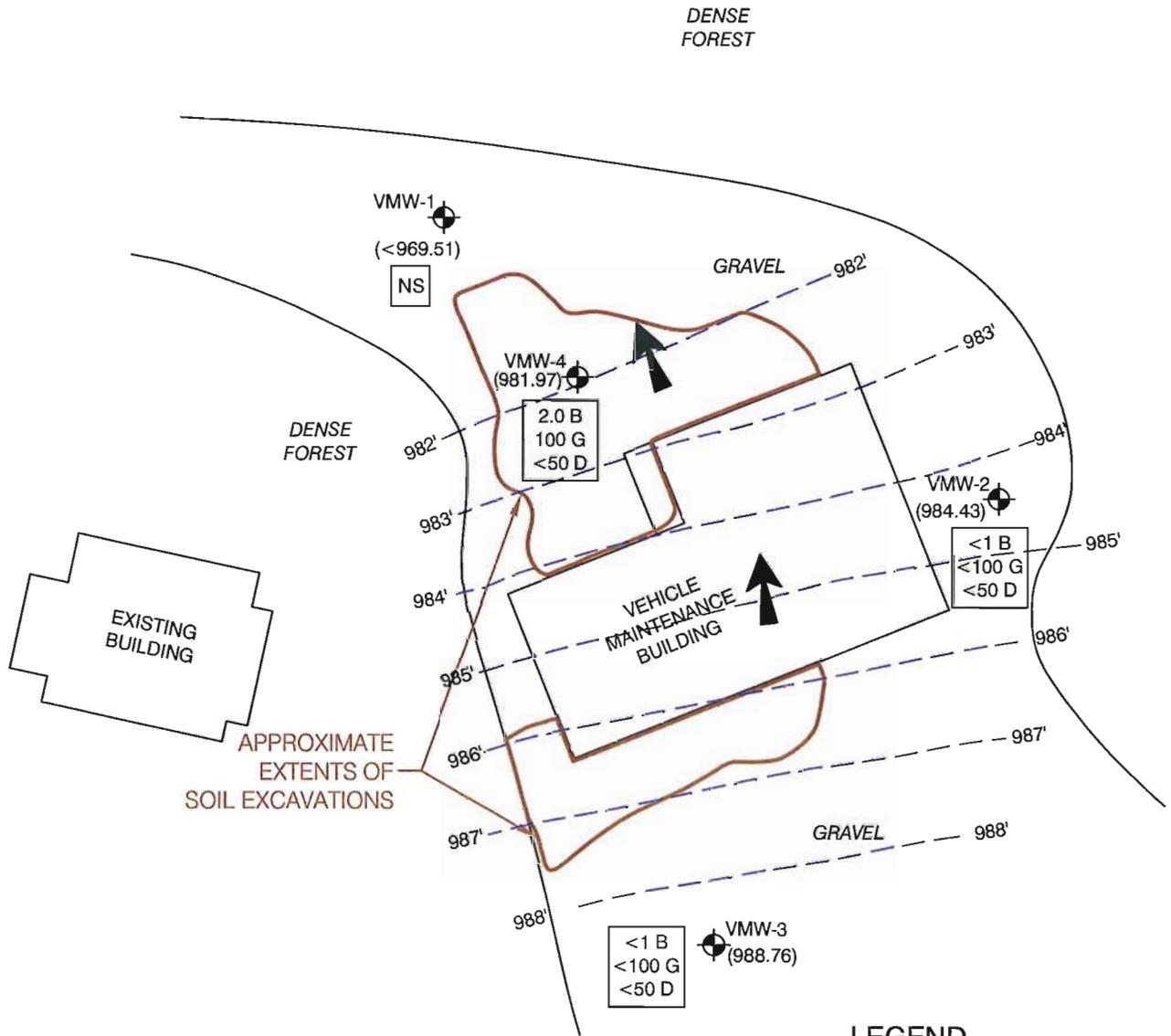
SLR

22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800
F: 425-402-8488

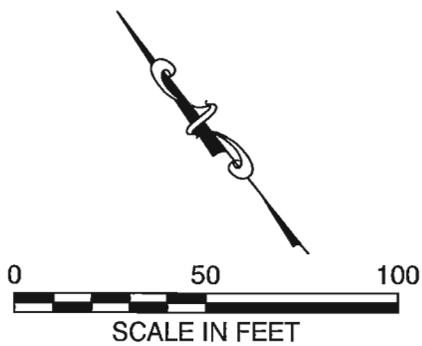
DATE 11/11
DWN. JSM
APPR. MDS
REVIS. _____
PROJECT NO. 101.00418.00005

FIGURE 7
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
APPROXIMATE AREA OF
NORTHERN MINI MART AREA EXCAVATION



LEGEND

- VMW-2 GROUNDWATER MONITORING WELL LOCATION
- GENERAL GROUNDWATER FLOW DIRECTION
- (984.43) GROUNDWATER ELEVATION (IN FEET) ON NOVEMBER 7, 2011
- 987' — GROUNDWATER SURFACE ELEVATION CONTOUR LINE (IN FEET)
- 2.0 B B = BENZENE CONCENTRATION ($\mu\text{g/L}$) IN GROUNDWATER SAMPLE
- 100 G G = GRO CONCENTRATION ($\mu\text{g/L}$) IN GROUNDWATER SAMPLE
- <50 D D = DRO CONCENTRATION ($\mu\text{g/L}$) IN GROUNDWATER SAMPLE
- NS NOT SAMPLED BECAUSE WELL WAS DRY



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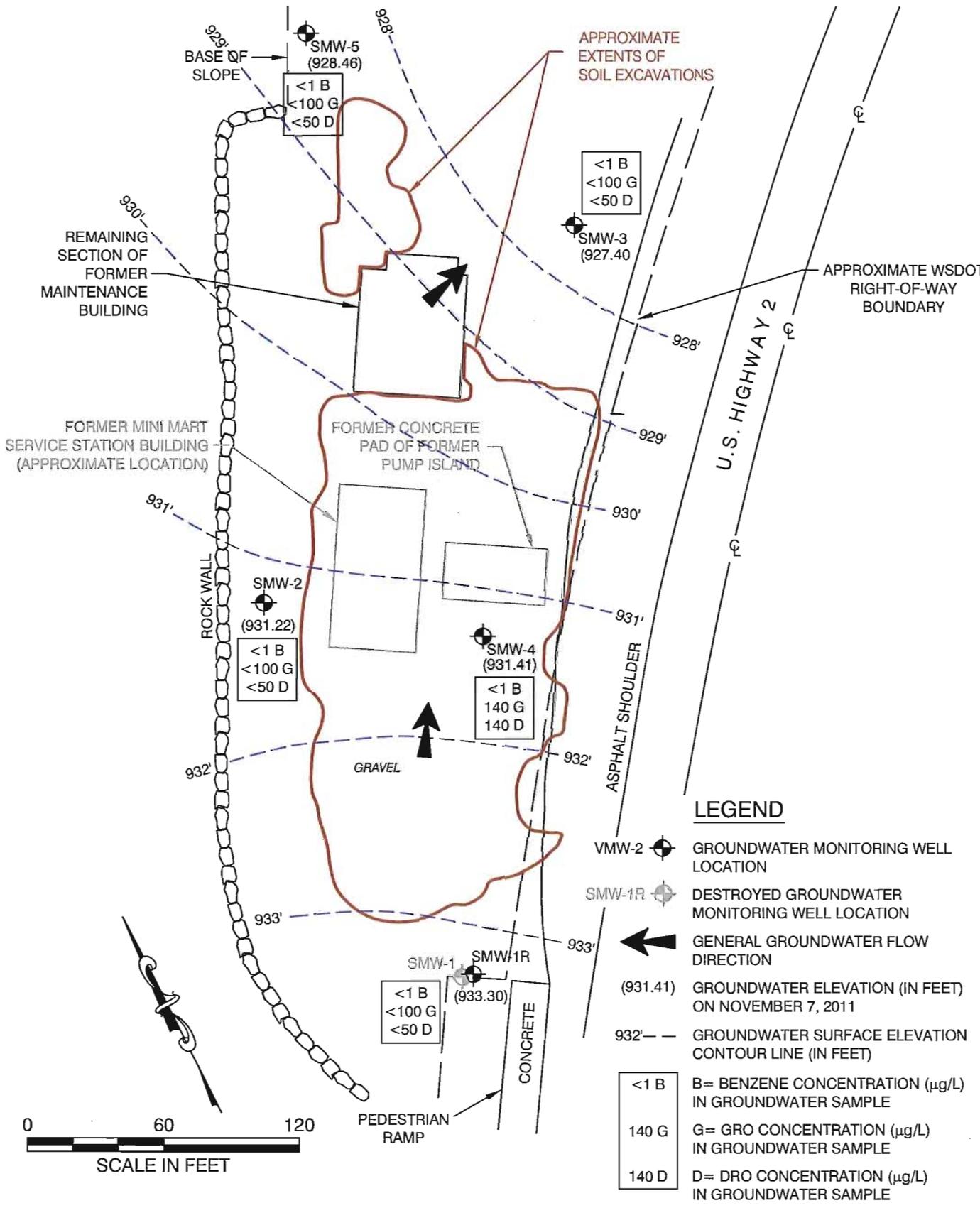
SLR

22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800
F: 425-402-8488

DATE	11/11
DWN.	ISM
APPR.	hds
REVIS.	
PROJECT NO.	101.00418.00005

FIGURE 8
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
NOVEMBER 2011 GROUNDWATER
MONITORING RESULTS -
CURRENT VEHICLE MAINTENANCE FACILITY



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SLR

22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800
F: 425-402-8488

DATE	11/11
DWN.	JSM
APPR.	MJS
REVIS.	
PROJECT NO.	101.00418.00003

FIGURE 9
STEVENS PASS SKI RESORT
SKYKOMISH, WASHINGTON
NOVEMBER 2011 GROUNDWATER
MONITORING RESULTS -
FORMER MINI MART STATION AREA

APPENDIX A
PROJECT PHOTOGRAPHS

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Groundwater treatment system and reinfiltration trench.



Construction of reinfiltration trench.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Fine-grained soil that passed through screener.



Stockpile of coarse material after passing through screener.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Stockpile of boulders from excavations.



South to north view of northern corner of southern vehicle maintenance facility excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



West to east view of eastern portion of southern vehicle maintenance facility excavation.



Extraction of groundwater from western and central parts of southern vehicle maintenance facility excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



East to west view of backfilling of southern vehicle maintenance facility excavation.



East to west view of southern vehicle maintenance excavation area after backfilling.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Southeast to northwest view of southern vehicle maintenance facility excavation area after backfilling.



East to west view of gray-stained soil beneath fuel dispensing area and along the northeast corner of UST area at northern vehicle maintenance facility excavation. East end of gasoline UST is partially exposed.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of eastern part of northern vehicle maintenance facility excavation.



North to south view of fuel dispensing shed that was demolished in order to remove the USTs and the associated impacted soil.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of 4,000-gallon gasoline UST prior to removal.



4,000-gallon gasoline UST after removal.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



West to east view of 10,000-gallon diesel UST prior to removal.



10,000-gallon diesel UST after removal.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Southeast to northwest view of bedrock along western sidewall of northern vehicle maintenance facility excavation.



North to south view of excavation beneath former fuel dispensing shed adjacent to vehicle maintenance building.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



West to east view of backfilling of eastern part of northern vehicle maintenance facility excavation.



South to north view of backfilling of northern part of northern vehicle maintenance facility excavation. PVC pipe was used for the installation of monitoring well VMW-4.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Construction of forms for concrete surface cap along north side of vehicle maintenance building, prior to rebuilding of shed.



West to east view of northern portion of concrete surface cap along north side of vehicle maintenance building.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



South to north view of southern part of southern Mini Mart area excavation.



North to south view of southern Mini Mart area excavation after digging around several underground utilities. Groundwater extraction is being conducted at nearest excavation area.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Southwest to northeast view of southeastern part of southern Mini Mart area excavation.



Northwest to southeast view of backfilling the southern part of the southern Mini Mart area excavation with cobbles and boulders.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of backfilling of southern part of southern Mini Mart area excavation with finer-grained material.



Northwest to southeast view of excavation of soil beneath a sewer line and electrical conduits.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Northeast to southwest view of two 550-gallon USTs that were discovered in the northern part of the southern Mini Mart area excavation.



North to south view of northern part of southern Mini Mart area excavation. The central part of excavation is partially backfilled, and the 550-gallon USTs are on the right side of the photo.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



West to east view of northern end of southern Mini Mart area excavation, along the former maintenance building.



Northeast to southwest view of backfilling of southern Mini Mart area excavation. PVC pipe is for the installation of monitoring well SMW-4.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Northeast to southwest view of backfilled southern Mini Mart area excavation, prior to installation of concrete surface cap near south corner of former maintenance building.



South to north view of backfilled southern Mini Mart area excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



Eastern part of concrete surface cap near southeast corner of former maintenance building.



Western part of concrete surface cap near southeast corner of former maintenance building.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of northern and central portions of northern Mini Mart area excavation.



Northeast to southwest view of drain pipe that appeared to be the source of the impacted soil at the northern Mini Mart area excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of southwestern part of northern Mini Mart area excavation.



North to south view of groundwater extraction and initial backfilling in the northern part of the northern Mini Mart area excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



North to south view of backfilling of southwestern part of northern Mini Mart area excavation.



Southwest to northeast view of final backfilling of northern Mini Mart area excavation.

PROJECT PHOTOGRAPHS
Stevens Pass Ski Area
Skykomish, Washington



East to west view of concrete surface cap along northeast side of former maintenance building.



Concrete surface cap that wraps around the northern corner of the former maintenance building.

APPENDIX B
LABORATORY REPORTS

**SOUTHERN VEHICLE MAINTENANCE
FACILITY EXCAVATION SAMPLES**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 2, 2011

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 August 30, 2011 from the Stevens Pass South Vehicle Maintenance Facility 101.00418.00005, F&BI 108510 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 30, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass South Vehicle Maintenance Facility 101.00418.00005, F&BI 108510 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
108510-01	SVWSW-A1-5
108510-02	SVNSW-A1-3
108510-03	SVESW-A1-3

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11

Date Received: 08/30/11

Project: Stevens Pass 101.00418.00005, F&BI 108510

Date Extracted: 08/31/11

Date Analyzed: 08/31/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
SVWSW-A1-5 108510-01	<0.02	<0.02	<0.02	<0.06	<2	103
SVNSW-A1-3 108510-02	<0.02	<0.02	<0.02	<0.06	35	108
SVESW-A1-3 108510-03	<0.02	<0.02	<0.02	<0.06	<2	106
Method Blank 01-1587 MB	<0.02	<0.02	<0.02	<0.06	<2	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11
Date Received: 08/30/11
Project: Stevens Pass 101.00418.00005, F&BI 108510
Date Extracted: 08/31/11
Date Analyzed: 08/31/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
SVWSW-A1-5 108510-01	<50	<250	105
SVNSW-A1-3 108510-02	200	<250	99
SVESW-A1-3 108510-03	<50	<250	101
Method Blank 01-1588 MB	<50	<250	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11

Date Received: 08/30/11

Project: Stevens Pass 101.00418.00005, F&BI 108510

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 108504-06 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	90	66-121
Toluene	mg/kg (ppm)	0.5	91	72-128
Ethylbenzene	mg/kg (ppm)	0.5	94	69-132
Xylenes	mg/kg (ppm)	1.5	93	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11

Date Received: 08/30/11

Project: Stevens Pass 101.00418.00005, F&BI 108510

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 108510-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	114	73-135	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	115	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLE CHAIN OF CUSTODY

ME 08/30/11 1 vs/ 1 DOZ

Page #

SAMPLERS (signature)

Send Report To MINE STATION

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

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

PROJECT NAME/NO.
STEVENS PASS
SOUTH VEHICLE MAINTENANCE FACILITY
101-00418.00005

PO#
101-00418.00005

REMARKS
W/TPH-Du after silica gel cleanup
pickup in Monroe

Company SLC INTERNATIONAL CORP
 Address 22118 20TH AVE SE, C-202
 City, State, ZIP BOZZELL, WA 98021
 Phone # (425)402-8800 Fax # (425)402-8488

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel/MC	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
SVWSW-A1-5	01 A-F	8/30/11	1440	SOIL	6	X	X	X				
SUNSW-A1-3	02 A-E		1445	↓	↓	X	X	X				
SVESW-A1-3	03 A-F		1450	↓	↓	X	X	X				

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

Relinquished by: [Signature] SIGNATURE
 Relinquished by: John Gordon PRINT NAME, COMPANY SLC
 Received by: VINTH PRINT NAME, COMPANY FBI
 Relinquished by: [Signature] SIGNATURE
 Received by: [Signature] PRINT NAME, COMPANY Received at 6 °C

DATE 8/30/11 4:15pm
 8/30/11 4:15pm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 8, 2011

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 August 31, 2011 from the Stevens Pass South Vehicle Maintenance Facility 101.00418.00005 PO 101.00418, F&BI 108535 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0908R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass South Vehicle Maintenance Facility 101.00418.00005 PO 101.00418, F&BI 108535 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
108536-01	SVWSW-A2-7
108536-02	SVSSW-A2-7
108536-03	SVNSW-B1-7

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

Date Extracted: 09/01/11

Date Analyzed: 09/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
SVWSW-A2-7 108535-01	<0.02	<0.02	<0.02	<0.06	<2	106
SVSSW-A2-7 108535-02	<0.02	<0.02	<0.02	<0.06	<2	106
SVNSW-B1-7 108535-03	<0.02	<0.02	<0.02	<0.06	<2	105
Method Blank 01-1593 MB	<0.02	<0.02	<0.02	<0.06	<2	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

Date Extracted: 09/01/11

Date Analyzed: 09/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
SVWSW-A2-7 108535-01	<50	<250	111
SVSSW-A2-7 108535-02	<50	<250	128
SVNSW-B1-7 108535-03	<50	<250	113
Method Blank 01-1588 MB2	<50	<250	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	95	93	66-121	2
Toluene	mg/kg (ppm)	0.5	95	93	72-128	2
Ethylbenzene	mg/kg (ppm)	0.5	99	96	69-132	3
Xylenes	mg/kg (ppm)	1.5	98	96	69-131	2
Gasoline	mg/kg (ppm)	20	110	100	61-153	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 108510-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	114	73-135	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	115	74-139

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 8, 2011

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 September 1, 2011 from the Stevens Pass South Vehicle Maintenance Facility 101.00418.00005, F&BI 109016 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0908R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 1, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass South Vehicle Maintenance Facility 101.00418.00005, F&BI 109016 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109016-01	SVSSW-B2-7
109016-02	SVSSW-C2-7
109016-03	SVNSW-C1-7

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/01/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

Date Extracted: 09/02/11

Date Analyzed: 09/02/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
SVSSW-B2-7 109016-01	<0.02	<0.02	<0.02	<0.06	<2	105
SVSSW-C2-7 109016-02	<0.02	<0.02	<0.02	<0.06	<2	107
SVNSW-C1-7 109016-03	<0.02	<0.02	<0.02	<0.06	<2	105
Method Blank 01-1606 MB	<0.02	<0.02	<0.02	<0.06	<2	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/01/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

Date Extracted: 09/02/11

Date Analyzed: 09/02/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
SVSSW-B2-7 109016-01	<50	<250	124
SVSSW-C2-7 109016-02	<50	<250	117
SVNSW-C1-7 109016-03	<50	<250	118
Method Blank 01-1603 MB2	<50	<250	122

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/01/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109016-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	96	66-121
Toluene	mg/kg (ppm)	0.5	96	72-128
Ethylbenzene	mg/kg (ppm)	0.5	101	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	95	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/01/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.00005

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109016-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	110	111	109	64-133	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	114	58-147

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.

Page # 1 of 1 A01
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH / DAY
 Rush charges authorized by CR
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. STEVEN'S BUS SOUTH VEHICLE MAINTENANCE FACILITY 1000418.0005
 PO# 1000418.0005
 REMARKS NWTPH-Dx for DRO & HO after silica gel cleanup Presump at Namros

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
SUSSW-02-7	01 A-F	9/1/11	1330	SOIL	6	X	X	X				
SUSSW-02-7	02 A-F		1335	↓	↓	X	X	X				
SUNSW-02-7	03 A-F		1340	↓	↓	X	X	X				

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

FORMS/COC/COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	<u>SLR</u>	<u>9/1/11</u>	<u>4:00</u>
<u>[Signature]</u>	<u>VINH</u>	<u>FBI</u>	<u>9/1/11</u>	<u>4:00</u>
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 8, 2011

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 September 2, 2011 from the Stevens Pass South Vehicle Maintenance Facility 101.00418.0005, F&BI 109045 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0908R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass South Vehicle Maintenance Facility 101.00418.0005, F&BI 109045 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109045-01	SVNSW-D1-7
109045-02	SVESW-D1-4
109045-03	SVESW-D2-7
109045-04	SVSSW-D2-7
109045-05	SVNSW(2)-A1-3

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.0005, F&BI 109045

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
SVNSW-D1-7 109045-01	<0.02	<0.02	<0.02	<0.06	<2	97
SVESW-D1-4 109045-02	<0.02	<0.02	<0.02	<0.06	<2	101
SVESW-D2-7 109045-03	<0.02	<0.02	<0.02	<0.06	<2	98
SVSSW-D2-7 109045-04	<0.02	<0.02	<0.02	<0.06	<2	98
SVNSW(2)-A1-3 109045-05	<0.02	<0.02	<0.02	<0.06	<2	97
Method Blank 01-1616 MB	<0.02	<0.02	<0.02	<0.06	<2	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.0005

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
SVNSW-D1-7 109045-01	<50	<250	104
SVESW-D1-4 109045-02	<50	<250	104
SVESW-D2-7 109045-03	<50	<250	104
SVSSW-D2-7 109045-04	<50	<250	100
SVNSW(2)-A1-3 109045-05	<50	<250	102
Method Blank 01-1612 MB	<50	<250	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.0005

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109045-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	69-120
Toluene	mg/kg (ppm)	0.5	98	70-117
Ethylbenzene	mg/kg (ppm)	0.5	102	65-123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass South Vehicle Maintenance Facility 101.00418.0005

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109045-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	122	119	63-146	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

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.

109045

Send Report To MIKE STATION

Company SLK INTERNATIONAL CORP

Address 2018 20th Ave SE, G-202

City, State, ZIP Bothell, WA 98021

Phone # (425)402-8800 Fax # (425)402-8488

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. STEVENS PASS

PO# 101.00418.0005

SOUTH VEHICLE MAINTENANCE FACILITY

REMARKS NUTPH-Dx for DRO & ITO after silica gel cleanup

Page # 1 of 3

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 day
Rush charges authorized by CTL

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

ANALYSES REQUESTED

TPH-Diesel

TPH-Gasoline

BTEX by 8021B

VOCs by 8260

SVCs by 8270

HFS

Notes

Sample ID

Lab ID

Date Sampled

Time Sampled

Sample Type

of containers

Company

DATE

TIME

Signature

Relinquished by:

Received by:

Relinquished by:

**NORTHERN VEHICLE MAINTENANCE
FACILITY EXCAVATION SAMPLES**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 30, 2011

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 September 27, 2011 from the North Vehicle Maintenance Stevens Pass, F&BI 109392 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0930R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. North Vehicle Maintenance Stevens Pass, F&BI 109392 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109392-01	NVESW-A2-3
109392-02	NVF-A2-3
109392-03	NVSSW-A2-3
109392-04	NVF-B2-7
109392-05	NVNSW-B2-5
109392-06	NVSSW-B2-5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: North Vehicle Maintenance Stevens Pass, F&BI 109392

Date Extracted: 09/28/11

Date Analyzed: 09/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NVESW-A2-3 109392-01	<0.02	<0.02	<0.02	<0.06	<2	113
NVF-A2-3 109392-02	<0.02	<0.02	<0.02	<0.06	4.6	109
NVSSW-A2-3 109392-03	<0.02	<0.02	<0.02	<0.06	<2	113
NVF-B2-7 109392-04	<0.02	<0.02	<0.02	<0.06	<2	112
NVNSW-B2-5 109392-05	<0.02	<0.02	<0.02	<0.06	<2	115
NVSSW-B2-5 109392-06	<0.02	<0.02	<0.02	<0.06	<2	116
Method Blank 01-1771 MB	<0.02	<0.02	<0.02	<0.06	<2	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: North Vehicle Maintenance Stevens Pass, F&BI 109392

Date Extracted: 09/28/11

Date Analyzed: 09/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
NVESW-A2-3 109392-01	<50	<250	107
NVF-A2-3 109392-02	<50	<250	122
NVSSW-A2-3 109392-03	<50	<250	106
NVF-B2-7 109392-04	<50	<250	110
NVNSW-B2-5 109392-05	<50	<250	106
NVSSW-B2-5 109392-06	<50	<250	110
Method Blank 01-1774 MB	<50	<250	113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: North Vehicle Maintenance Stevens Pass, F&BI 109392

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	mg/kg (ppm)	0.5	79	78	66-121	1
Toluene	mg/kg (ppm)	0.5	97	95	72-128	2
Ethylbenzene	mg/kg (ppm)	0.5	101	98	69-132	3
Xylenes	mg/kg (ppm)	1.5	101	99	69-131	2
Gasoline	mg/kg (ppm)	20	115	110	61-153	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: North Vehicle Maintenance Stevens Pass, F&BI 109392

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109392-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	99	64-133	3

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	58-147

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.

Send Report To Mike Stator
 Company SCR
 Address 22118 20th Ave
 City, State, ZIP Bothell, WA, 98021
 Phone # 425-402-9800 Fax # _____

SAMPLERS (signature) 
 PROJECT NAME/NO. PO#
North Vehicle Maintenance
Stevens Pass
 REMARKS
AWM-10x for IDP & ITO after silica
gel cleanup
Pickup at MTRD

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
NVESW-A2-3	01 A-F	9/27/11		Soil	6	X	X	X				
NVF-A2-3	02 A-F					X	X	X				
NVSSW-A2-3	03 A-F					X	X	X				
NVF-B2-7	04 A-F					X	X	X				
NVMSW-B2-5	05 A-F					X	X	X				
NVSSW-B2-5	06 A-F					X	X	X				

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

Relinquished by: 
 Received by: 
 Relinquished by: _____
 Received by: _____

PRINT NAME: John Gordon
 COMPANY: SCR
 DATE: 9/27/11 TIME: 4:10
VISHA
 DATE: 9/27/11 TIME: 4:10
 Samples received at: 9°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 4, 2011

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 September 28, 2011 from the Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1004R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 28, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109415-01	NVNSW-C3-5
109415-02	NVNSW-C3-15
109415-03	NVNSW-D4-5
109415-04	NVNSW-D4-15

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/11

Date Received: 09/28/11

Project: Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415

Date Extracted: 09/29/11

Date Analyzed: 09/29/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
NVNSW-C3-5 109415-01	<0.02	0.026	<0.02	<0.06	<2	97
NVNSW-C3-15 109415-02	<0.02	<0.02	<0.02	<0.06	<2	100
NVNSW-D4-5 109415-03	<0.02	<0.02	<0.02	<0.06	<2	100
NVNSW-D4-15 109415-04	<0.02	<0.02	<0.02	<0.06	<2	99
Method Blank 01-1783 MB	<0.02	<0.02	<0.02	<0.06	<2	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/11

Date Received: 09/28/11

Project: Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415

Date Extracted: 09/28/11

Date Analyzed: 09/29/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL**

USING METHOD NWTPH-Dx

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
NVNSW-C3-5 109415-01	<50	<250	121
NVNSW-C3-15 109415-02	<50	<250	123
NVNSW-D4-5 109415-03	<50	<250	123
NVNSW-D4-15 109415-04	<50	<250	125
Method Blank 01-1781 MB	<50	<250	124

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/11

Date Received: 09/28/11

Project: Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109415-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	0.026	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	88	69-120
Toluene	mg/kg (ppm)	0.5	94	70-117
Ethylbenzene	mg/kg (ppm)	0.5	98	65-123
Xylenes	mg/kg (ppm)	1.5	98	66-120
Gasoline	mg/kg (ppm)	20	110	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/04/11

Date Received: 09/28/11

Project: Stevens Pass N. Vehicle Maintenance Facility, F&BI 109415

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109415-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	105	103	64-133	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	103	58-147

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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3012 16th Avenue West
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October 17, 2011

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

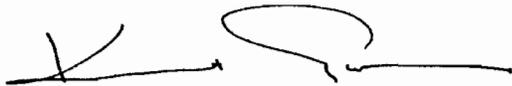
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 11, 2011 from the 101.00418.0009, F&BI 110131 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1017R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.0009, F&BI 110131 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110131-01	NVWSW-E2-5
110131-02	NVWSW-D2-11
110131-03	NVWSW-D3-5
110131-04	NVWSW-D3-11

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/11
Date Received: 10/11/11
Project: 101.00418.0009, F&BI 110131
Date Extracted: 10/12/11
Date Analyzed: 10/12/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

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

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
NVWSW-E2-5 110131-01	<0.02	0.032	0.030	0.11	10	109
NVWSW-D2-11 110131-02	<0.02	<0.02	<0.02	<0.06	<2	106
NVWSW-D3-5 110131-03	<0.02	<0.02	<0.02	<0.06	<2	106
NVWSW-D3-11 110131-04	<0.02	<0.02	<0.02	<0.06	<2	108
Method Blank 01-1870 MB	<0.02	<0.02	<0.02	<0.06	<2	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/11
Date Received: 10/11/11
Project: 101.00418.0009, F&BI 110131
Date Extracted: 10/12/11
Date Analyzed: 10/12/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
NVWSW-E2-5 110131-01	<50	<250	108
NVWSW-D2-11 110131-02	74	<250	104
NVWSW-D3-5 110131-03	<50	<250	105
NVWSW-D3-11 110131-04	110	<250	105
Method Blank 01-1867 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/11

Date Received: 10/11/11

Project: 101.00418.0009, F&BI 110131

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110131-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	92	69-120
Toluene	mg/kg (ppm)	0.5	104	70-117
Ethylbenzene	mg/kg (ppm)	0.5	104	65-123
Xylenes	mg/kg (ppm)	1.5	105	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/17/11

Date Received: 10/11/11

Project: 101.00418.0009, F&BI 110131

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110125-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	107	101	64-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	58-147

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 27, 2011

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 19, 2011 from the Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', with a large, stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 19, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110259-01	NVESW-C1-5
110259-02	NVESW-C1-13
110259-03	NVSSW-C2-5
110259-04	NVSSW-C2-13
110259-05	NVSSW-D1-5
110259-06	NVSSW-D1-13
110259-07	NVWSW-E1-5
110259-08	NVWSW-E1-13
110259-09	NVSSW-E1-13

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility, F&BI 110259

Date Extracted: 10/20/11

Date Analyzed: 10/20/11 and 10/21/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NVESW-C1-5 110259-01 1/5	<0.1	<0.1	1.5	1.6	1,200	114
NVESW-C1-13 110259-02 1/5	<0.1	<0.1	<0.1	2.1	800	113
NVSSW-C2-5 110259-03	<0.02	<0.02	0.11	0.77	390	104
NVSSW-C2-13 110259-04	<0.02	<0.02	0.84	0.67	520 ve	148
NVSSW-D1-5 110259-05	<0.02	<0.02	<0.02	<0.06	<2	108
NVSSW-D1-13 110259-06	<0.02	<0.02	<0.02	<0.06	5.4	103
NVWSW-E1-5 110259-07	<0.02	<0.02	<0.02	<0.06	<2	102
NVWSW-E1-13 110259-08	<0.02	<0.02	<0.02	<0.06	<2	103
NVSSW-E1-13 110259-09	<0.02	0.33	0.67	0.81	100	137
Method Blank 01-1907 MB	<0.02	<0.02	<0.02	<0.06	<2	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility, F&BI 110259

Date Extracted: 10/20/11

Date Analyzed: 10/20/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
NVESW-C1-5 110259-01	8,700	420	111
NVESW-C1-13 110259-02	4,500	<250	110
NVSSW-C2-5 110259-03	8,200	490	98
NVSSW-C2-13 110259-04	5,300	310	110
NVSSW-D1-5 110259-05	<50	<250	102
NVSSW-D1-13 110259-06	180	320	111
NVWSW-E1-5 110259-07	180	<250	89
NVWSW-E1-13 110259-08	<50	<250	87
NVSSW-E1-13 110259-09	200	<250	100
Method Blank 01-1910 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility, F&BI 110259

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	86	84	69-120	2
Toluene	mg/kg (ppm)	0.5	97	99	70-117	2
Ethylbenzene	mg/kg (ppm)	0.5	96	100	65-123	4
Xylenes	mg/kg (ppm)	1.5	97	100	66-120	3
Gasoline	mg/kg (ppm)	20	87	84	71-131	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility, F&BI 110259

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110259-06 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	300	113	112	73-135	1

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	74-139

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.

110259

SAMPLE CHAIN OF CUSTODY

PK 10/19/11

1 / 1005

Page # _____ of _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 DAY
 Rush charges authorized by
 CAK

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

SAMPLERS (signature) _____

PROJECT NAME/NO.
 STEVENS PASS, NORTH VEHICLE
 MAINTENANCE FACILITY
 101.00418-00005

PO#
 101.00418.00005

REMARKS NUTPH-Dx FOR ORO & HO
 AFTER SILICA GEL CLEANUP
 Pickup at Stevens Pass

Send Report To MIKE STATION

Company SLR INTERNATIONAL CORP

Address 20118 20TH AVE, SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425)402-8800 Fax # (425)402-8488

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
NVESW-C1-5	01 F	10/19/11	1015	SOIL	6	X	X					
NVESW-C1-13	02		0940									
NVSSW-C2-5	03		0910									
NVSSW-C2-13	04		1400									
NVSSW-D1-5	05		1140									
NVSSW-D1-13	06		0920									
NVWSW-E1-5	07		1130									
NVWSW-E1-13	08		1030									
NVSSW-E1-13	09	10/19/11	0930									WIP 10/19/11 Added on lab

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	CHRIS LEE	SLR	10/19/11	4:00
Received by: _____	VINH	FBI	10/19/11	4:00
Relinquished by: _____		Samples received at	2	°C
Received by: _____				

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 8, 2011

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

Dear Mr. Staton:

Included are the additional results from the testing of material submitted on October 19, 2011 from the Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259 project. There are 4 pages included in this report.

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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR1108R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 19, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110259-01	NVESW-C1-5
110259-02	NVESW-C1-13
110259-03	NVSSW-C2-5
110259-04	NVSSW-C2-13
110259-05	NVSSW-D1-5
110259-06	NVSSW-D1-13
110259-07	NVWSW-E1-5
110259-08	NVWSW-E1-13
110259-09	NVSSW-E1-13

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259

Date Extracted: 11/01/11

Date Analyzed: 11/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
NVESW-C1-5 110259-01	<0.02	<0.02	1.9	2.6	340	ip
NVESW-C1-13 110259-02	<0.02	<0.02	1.9	0.82	240	ip
Method Blank 01-1970 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/11

Date Received: 10/19/11

Project: Stevens Pass North Vehicle Maintenance Facility 101.00418.00005, F&BI 110259

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	96	92	69-120	4
Toluene	mg/kg (ppm)	0.5	99	95	70-117	4
Ethylbenzene	mg/kg (ppm)	0.5	100	95	65-123	5
Xylenes	mg/kg (ppm)	1.5	99	95	66-120	4
Gasoline	mg/kg (ppm)	20	100	105	71-131	5

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.

110259

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1003

Send Report To MIKE STATION
 Company SLR INTERNATIONAL CORP
 Address 20118 20TH AVE, SE, G-200
 City, State, ZIP BOTHELL, WA 98021
 Phone # (425)400-8800 Fax # (425)400-8488

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. STEVENS PASS, NORTH VEHICLE MAINTENANCE FACILITY
 PO# 101.0048.00005
 REMARKS NWTPH-Dx For ORO & HO AFTER SILICA GEL CLEANUP
Pickup at Stevens Pass

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 DAY
 Rush charges authorized by CAK
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
NVESW-C1-5	01	10/19/11	1015	SOIL	6	X	X					
NVESW-C1-13	02		0940									
NVSSW-C2-5	03		0910									
NVSSW-C2-13	04		1400									
NVSSW-D1-5	05		1140									
NVSSW-D1-13	06		0920									
NVWSW-E1-5	07		1130									
NVWSW-E1-13	08		1030									
NVSSW-E1-13	09	10/19/11	0930									<u>ADDED 10/19/11</u> <u>Added in Lab</u>

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	CHRIS LEE	SLR	10/19/11	4:00
<u>[Signature]</u>	VINH	FBI	10/19/11	4:00
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

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

**SOUTHERN MINI MART AREA
EXCAVATION SAMPLES**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 9, 2011

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 September 2, 2011 from the Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0909R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109046-01	MSW-B2-5
109046-02	MSW-B2-10
109046-03	MSW-C2-5
109046-04	MSW-C2-10
109046-05	MSW-G1-5
109046-06	MSW-G1-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW-B2-5 109046-01	<0.02	<0.02	<0.02	<0.06	<2	97
MSW-B2-10 109046-02	<0.02	0.022	<0.02	<0.06	<2	97
MSW-C2-5 109046-03	<0.02	<0.02	<0.02	<0.06	<2	97
MSW-C2-10 109046-04	<0.02	<0.02	<0.02	<0.06	<2	99
MSW-G1-5 109046-05	<0.02	<0.02	<0.02	<0.06	<2	100
MSW-G1-10 109046-06	<0.02	<0.02	<0.02	<0.06	<2	100
Method Blank 01-1616 MB	<0.02	<0.02	<0.02	<0.06	<2	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
MSW-B2-5 109046-01	<50	<250	111
MSW-B2-10 109046-02	<50	<250	109
MSW-C2-5 109046-03	<50	<250	107
MSW-C2-10 109046-04	<50	<250	113
MSW-G1-5 109046-05	<50	<250	109
MSW-G1-10 109046-06	<50	<250	108
Method Blank 01-1612 MB	<50	<250	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109045-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	69-120
Toluene	mg/kg (ppm)	0.5	98	70-117
Ethylbenzene	mg/kg (ppm)	0.5	102	65-123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00418.00005, F&BI 109046

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109045-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	122	119	63-146	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

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.

109046

ME 09/02/11

VS/A03

Send Report To: Mike Stator

Company: SCR Consulting

Address: 2218 20th Ave

City, State, ZIP: Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

Page # 1 of 1

TURNAROUND TIME
 Standard (3 Weeks)
 RUSH 3 G.
 Rush charges authorized by: _____

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

SAMPLERS (signature) _____

PROJECT NAME/NO. PO #
 Stevens Pass - Mini Movel. 101004180000

REMARKS
 NWTPA - Px for DRO to HO after silica
 bel cleanup.

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	RTX by 80218	VOCs by 8260	SVOs by 8270	IIFS	
MSW-B2-S	01 A-F	9-2-11	2:00	Soil	6	X	X					
MSW-B2-10	02 A-F	↓	↓	↓	6	X	X					
MSW-C2-S	03 A-F					X	X					
MSW-C2-10	04 A-F					X	X					
MSW-61-S	05 A-F					X	X					
MSW-61-10	06 A-F					X	X					

Samples received at 4°C

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

Refiniquished by: _____ SIGNATURE _____

Received by: _____ SIGNATURE _____

Refiniquished by: _____

Received by: _____

PRINT NAME: John border

COMPANY: SCR

DATE: 9/2/11

TIME: 4:15

COMPANY: FBI

DATE: 9/2/11

TIME: 4:15 PM

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 13, 2011

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

Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 6, 2011 from the 101.00418.00005, F&BI 109063 project. As requested, the sample identification has been changed from MSW-D1-S to MSW-D1-5.

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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR0909R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 9, 2011

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 September 6, 2011 from the 101.00418.00005, F&BI 109063 project. There are 6 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.

A handwritten signature in black ink, appearing to read 'Kurt Johnson', with a large, stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
SLR0909R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 6, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, F&BI 109063 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109063-01	MSW-D1-5
109063-02	MSW-D1-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11
Date Received: 09/06/11
Project: 101.00418.00005, F&BI 109063
Date Extracted: 09/07/11
Date Analyzed: 09/07/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

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

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-D1-5 109063-01	<0.02	<0.02	<0.02	<0.06	<2	99
MSW-D1-10 109063-02	<0.02	<0.02	<0.02	<0.06	<2	101
Method Blank 01-1616 MB 09-06-11 16:40	<0.02	<0.02	<0.02	<0.06	<2	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11
Date Received: 09/06/11
Project: 101.00418.00005, F&BI 109063
Date Extracted: 09/07/11
Date Analyzed: 09/07/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND RESIDUAL RANGE
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Residual Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MSW-D1-5 109063-01	<50	<250	110
MSW-D1-10 109063-02	<50	<250	109
Method Blank 01-1612 MB2	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/06/11

Project: 101.00418.00005, F&BI 109063

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109045-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	69-120
Toluene	mg/kg (ppm)	0.5	98	70-117
Ethylbenzene	mg/kg (ppm)	0.5	102	65-123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/11

Date Received: 09/06/11

Project: 101.00418.00005, F&BI 109063

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109045-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	122	119	63-146	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 12, 2011

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 September 7, 2011 from the Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR0912R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109082-01	MSW-E2-5
109082-02	MSW-E2-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082

Date Extracted: 09/08/11

Date Analyzed: 09/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl</u> <u>Benzene</u>	<u>Total</u> <u>Xylenes</u>	<u>Gasoline</u> <u>Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-E2-5 109082-01	<0.02	0.045	<0.02	0.084	<2	102
MSW-E2-10 109082-02	<0.02	<0.02	<0.02	<0.06	<2	105
Method Blank 01-1627 MB	<0.02	<0.02	<0.02	<0.06	<2	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082

Date Extracted: 09/08/11

Date Analyzed: 09/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
MSW-E2-5 109082-01	<50	<250	122
MSW-E2-10 109082-02	<50	<250	122
Method Blank 01-1628 MB2	<50	<250	119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109061-04 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	95	66-121
Toluene	mg/kg (ppm)	0.5	96	72-128
Ethylbenzene	mg/kg (ppm)	0.5	101	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	105	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109082

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109077-04 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	117	123	63-146	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 16, 2011

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 September 9, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 9, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109127-01	MSW-C5-5
109127-02	MSW-C5-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

Date Extracted: 09/12/11

Date Analyzed: 09/12/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW-C5-5 109127-01	<0.02	<0.02	0.44	0.30	120	120
MSW-C5-10 109127-02 1/5	<0.1	<0.1	0.41	1.7	390	122
Method Blank 01-1685 MB	<0.02	<0.02	<0.02	<0.06	<2	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

Date Extracted: 09/12/11

Date Analyzed: 09/12/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-C5-5 109127-01	270	<250	150
MSW-C5-10 109127-02	250	<250	122
Method Blank 01-1676 MB	<50	<250	154

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109117-11 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	98	69-120
Toluene	mg/kg (ppm)	0.5	100	70-117
Ethylbenzene	mg/kg (ppm)	0.5	104	65-123
Xylenes	mg/kg (ppm)	1.5	102	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109127-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	240	140	133	63-146	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	128	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 4, 2011

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

Dear Mr. Staton:

Included are the additional results from the testing of material submitted on September 9, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127 project. There are 4 pages included in this report.

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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR1104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 9, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109127-01	MSW-C5-5
109127-02	MSW-C5-10

The NWTPH-Gx gasoline value exceeded the calibration range of the instrument. The data were flagged accordingly.

In addition, the sample was requested to be reanalyzed outside of the holding time since benzene was not detected in the sample from the original analysis. The samples were maintained at -7 degrees Celsius since they were received by the laboratory. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

Date Extracted: 10/27/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW-C5-10 ht 109127-02	<0.02	0.49	1.0	5.0	670 ve	ip
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109127

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 16, 2011

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 September 13, 2011 from the 101.00418.00005, F&BI 109164 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 13, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, F&BI 109164 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109164-01	MSW-A3-5
109164-02	MSW-A3-10
109164-03	MSW-F1-5
109164-04	MSW-F1-9

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11
 Date Received: 09/13/11
 Project: 101.00418.00005, F&BI 109164
 Date Extracted: 09/13/11
 Date Analyzed: 09/14/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-A3-5 109164-01	<0.02	<0.02	<0.02	<0.06	<2	112
MSW-A3-10 109164-02	<0.02	<0.02	0.10	<0.06	9.7	111
MSW-F1-5 109164-03	<0.02	<0.02	<0.02	<0.06	<2	108
MSW-F1-9 109164-04	<0.02	0.053	<0.02	0.069	11	109
Method Blank 01-1694 MB	<0.02	<0.02	<0.02	<0.06	<2	109

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11
 Date Received: 09/13/11
 Project: 101.00418.00005, F&BI 109164
 Date Extracted: 09/13/11
 Date Analyzed: 09/14/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS
 DIESEL AND MOTOR OIL
 USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
 Silica Gel Column Prior to Analysis**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-A3-5 109164-01	<50	<250	109
MSW-A3-10 109164-02	<50	<250	110
MSW-F1-5 109164-03	<50	<250	112
MSW-F1-9 109164-04	<50	<250	111
Method Blank 01-1676 MB2	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/13/11

Project: 101.00418.00005, F&BI 109164

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109124-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	100	70-117
Ethylbenzene	mg/kg (ppm)	0.5	102	65-123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11
Date Received: 09/13/11
Project: 101.00418.00005, F&BI 109164

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109127-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	240	140	133	63-146	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	128	79-144

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.
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- 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.

Send Report To Mike Staten

Company SR Consulting

Address 2418 20th Ave, Ballard, 1

City, State, ZIP WA, 98210

Phone # 425-402-3800 Fax # 425-402-8488

Sample ID

Lab ID

Date Sampled

Time Sampled

Sample Type

of containers

TPH-Diesel

TPH-Gasoline

BTEX by 8021B

VOCs by 8260

SVOCs by 8270

HFS

Notes

ANALYSES REQUESTED

TURNAROUND TIME

SAMPLE DISPOSAL

Standard (2 Weeks)

RUSH

Rush charges authorized by

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature)

PROJECT NAME/NO.

REMARKS

PO#

Page # of

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by

Dispose after 30 days

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REMARKS

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Page # of

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PROJECT NAME/NO.

REMARKS

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Page # of

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Standard (2 Weeks)

RUSH

Rush charges authorized by

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature)

PROJECT NAME/NO.

REMARKS

PO#

Page # of

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RUSH

Rush charges authorized by

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Will call with instructions

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REMARKS

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Rush charges authorized by

Dispose after 30 days

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Will call with instructions

SAMPLERS (signature)

PROJECT NAME/NO.

REMARKS

PO#

Page # of

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature)

PROJECT NAME/NO.

REMARKS

PO#

Page # of

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 21, 2011

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 September 15, 2011 from the 101.00418.00005, F&BI 109211 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0921R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 15, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, F&BI 109211 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109211-01	MSW-C6-5
109211-02	MSW-C6-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/15/11
Project: 101.00418.00005, F&BI 109211
Date Extracted: 09/16/11
Date Analyzed: 09/16/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-C6-5 109211-01	<0.02	<0.02	0.054	0.096	8.0	106
MSW-C6-10 109211-02	<0.02	0.030	<0.02	<0.06	<2	108
Method Blank 01-1711 MB	<0.02	<0.02	<0.02	<0.06	<2	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/15/11
Project: 101.00418.00005, F&BI 109211
Date Extracted: 09/15/11
Date Analyzed: 09/16/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-C6-5 109211-01	<50	<250	91
MSW-C6-10 109211-02	65	<250	98
Method Blank 01-1704 MB	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11

Date Received: 09/15/11

Project: 101.00418.00005, F&BI 109211

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109211-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	0.030	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	3	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	90	69-120
Toluene	mg/kg (ppm)	0.5	97	70-117
Ethylbenzene	mg/kg (ppm)	0.5	100	65-123
Xylenes	mg/kg (ppm)	1.5	100	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/15/11
Project: 101.00418.00005, F&BI 109211

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109189-04 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	119	126	73-135	6

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	113	74-139

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 21, 2011

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 September 14, 2011 from the 101.00418.00005, F&BI 109189 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0921R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 14, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109189-01	MSW-B4-5
109189-02	MSW-B4-10
109189-03	MSW-B5-5
109189-04	MSW-B5-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
 Date Received: 09/14/11
 Project: 101.00418.00005, F&BI 109189
 Date Extracted: 09/15/11
 Date Analyzed: 09/15/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

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

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-B4-5 109189-01	<0.02	<0.02	<0.02	0.31	32	110
MSW-B4-10 109189-02	<0.02	0.029	<0.02	<0.06	<2	106
MSW-B5-5 109189-03	<0.02	<0.02	<0.02	<0.06	<2	110
MSW-B5-10 109189-04	<0.02	<0.02	<0.02	<0.06	<2	106
Method Blank 01-1701 MB	<0.02	<0.02	<0.02	<0.06	<2	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/14/11
Project: 101.00418.00005, F&BI 109189
Date Extracted: 09/15/11
Date Analyzed: 09/15/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-B4-5 109189-01	310	<250	114
MSW-B4-10 109189-02	61	310	113
MSW-B5-5 109189-03	<50	<250	112
MSW-B5-10 109189-04	<50	<250	113
Method Blank 01-1704 MB	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11

Date Received: 09/14/11

Project: 101.00418.00005, F&BI 109189

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109187-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	90	69-120
Toluene	mg/kg (ppm)	0.5	101	70-117
Ethylbenzene	mg/kg (ppm)	0.5	106	65-123
Xylenes	mg/kg (ppm)	1.5	104	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11

Date Received: 09/14/11

Project: 101.00418.00005, F&BI 109189

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109189-04 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	119	126	73-135	6

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	113	74-139

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.

109189

Send Report To Mike Stator

Company SLR Consulting

Address 2218 20th Ave

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8498

Sample Chain of Custody MR 09-14-11 Page # 1 of 2

SAMPLERS (signature) [Signature] PO# _____

PROJECT NAME/NO. 101-00418-00005

REMARKS MUTPH-Dx for DRO/HO cyster silica gel cleanup Pick up at Montpel

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

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
MSW-B4-5	01 A-E	9/14/11	1:30pm	Soil	6	X	X	X				
MSW-B4-10	02 A-F	↓	↓	↓	6	X	X	X				
MSW-B5-5	03 A-F	↓	↓	↓	6	X	X	X				
MSW-B5-10	04 A-F	↓	↓	↓	6	X	X	X				

SIGNATURE [Signature] PRINT NAME John Gordon COMPANY SLR DATE 9/14/11 TIME 3:30

Relinquished by: [Signature]

Received by: [Signature] VINLT FBI 9/14/11 3:30

Relinquished by: _____

Received by: _____

Samples received at 8 °C

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 21, 2011

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 September 16, 2011 from the 101.00418.00005, F&BI 109243 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0921R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, F&BI 109243 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
109243-01

SLR International Corp.
MSW(2)-B4-5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/16/11
Project: 101.00418.00005, F&BI 109243
Date Extracted: 09/19/11
Date Analyzed: 09/19/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

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

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW(2)-B4-5 109243-01	<0.02	<0.02	<0.02	<0.06	<2	108
Method Blank 01-1720 MB	<0.02	<0.02	<0.02	<0.06	<2	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/16/11
Project: 101.00418.00005, F&BI 109243
Date Extracted: 09/19/11
Date Analyzed: 09/19/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MSW(2)-B4-5 109243-01	<50	<250	104
Method Blank 01-1719 MB	<50	<250	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11

Date Received: 09/16/11

Project: 101.00418.00005, F&BI 109243

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109231-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	0.027	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	90	69-120
Toluene	mg/kg (ppm)	0.5	96	70-117
Ethylbenzene	mg/kg (ppm)	0.5	100	65-123
Xylenes	mg/kg (ppm)	1.5	98	66-120
Gasoline	mg/kg (ppm)	20	80	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
 Date Received: 09/16/11
 Project: 101.00418.00005, F&BI 109243

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS
 DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109243-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	93	91	64-133	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	58-147

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.
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- 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.
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- 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.

Send Report To Mike Staton
 Company SLR Consulting
 Address 22118 20th Ave
 City, State, ZIP Bothell, WA
 Phone # _____ Fax # _____

TURNAROUND TIME
 Standard (3 Weeks)
 RUSH 3.6
 Rush charges authorized by _____

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

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. 101-00418-00005
 PO# _____

REMARKS
NWTPH-DX for HO to DRO cyter silica
 gel clean up.

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS		
M5W(2)-BA-5	01-A-F	9/16/11	2pm	Soil	6	X	X	X					

SIGNATURE [Signature] PRINT NAME John Gordon COMPANY SLR DATE 9/16/11 TIME 4:25

Relinquished by: _____

Received by: [Signature] VINH FBI DATE 9/16/11 TIME 4:25

Relinquished by: _____

Received by: _____ Samples received at 8°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 14, 2011

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

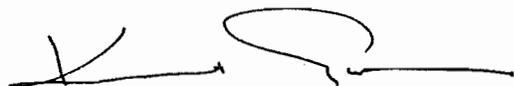
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 10, 2011 from the 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 10, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110111-01	MSW-J4-5
110111-02	MSW-J4-9
110111-03	MF-J4-8

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

Date Extracted: 10/11/11

Date Analyzed: 10/11/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW-J4-5 110111-01 1/5	<0.1	3.2	5.1	19	1,500	121
MSW-J4-9 110111-02 1/5	<0.1	1.3	1.7	6.3	530	110
MF-J4-8 110111-03	<0.02	<0.02	<0.02	<0.06	<2	104
Method Blank 01-1859 MB	<0.02	<0.02	<0.02	<0.06	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

Date Extracted: 10/11/11

Date Analyzed: 10/11/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MSW-J4-5 110111-01	2,400	740	103
MSW-J4-9 110111-02	400	400	103
MF-J4-8 110111-03	<50	<250	103
Method Blank 01-1861 MB2	<50	<250	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	mg/kg (ppm)	0.5	84	84	69-120	0
Toluene	mg/kg (ppm)	0.5	96	95	70-117	1
Ethylbenzene	mg/kg (ppm)	0.5	95	95	65-123	0
Xylenes	mg/kg (ppm)	1.5	97	96	66-120	1
Gasoline	mg/kg (ppm)	20	90	95	71-131	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110102-06 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	125	128	63-146	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

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.

Company SLR Consulting
 Address 22118 20th Ave
 City, State, ZIP Bellevue, WA, 98210
 Phone # _____ Fax # _____

SAMPLERS (signed) [Signature]
 PROJECT NAME/NO. Mini Mart - Stevens Pass
 101-00418-00005
 REMARKS NWTPH - on gr HO & DRO after silica gel cleanup. Pickup at Monroe

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
MSW-JA-5	01 A-F	10/10/11		Soil	6	X	X	X				
MSW-JA-9	02 A-F	↓		↓	6	X	X	X				
MF-JA-8	03 A-F	↓		↓	6	X	X	X				

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

Relinquished by: [Signature] SIGNATURE
 Received by: [Signature]
 Relinquished by: [Signature]
 Received by: [Signature]

PRINT NAME: Jan Gordon COMPANY: SLR DATE: 10/10/11 TIME: 3:40
 PRINT NAME: VINH COMPANY: SLR DATE: 10/10/11 TIME: 9:40

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 8, 2011

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

Dear Mr. Staton:

Included are the additional results from the testing of material submitted on October 10, 2011 from the 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111 project. There are 4 pages included in this report.

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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', with a stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
SLR1108R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 10, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110111-01	MSW-J4-5
110111-02	MSW-J4-9
110111-03	MF-J4-8

The MSW-J4-5 NWTPH-Gx/8021B ethylbenzene, xylenes, and gasoline value exceeded the calibration range of the instrument. The data were flagged accordingly.

In addition, the samples were requested to be reanalyzed outside of the holding time since benzene was not detected in the sample from the original analysis. The samples were maintained at -7 degrees Celsius since they were received by the laboratory. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

Date Extracted: 11/01/11

Date Analyzed: 11/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-J4-5 ht 110111-01	<0.02	3.4	4.8 ve	17 ve	690 ve	ip
MSW-J4-9 ht 110111-02	0.037	0.99	1.6	4.7	240	142
Method Blank 01-1970 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/08/11

Date Received: 10/10/11

Project: 101.00418.00005 Mini Mart-Stevens Pass, F&BI 110111

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	96	92	69-120	4
Toluene	mg/kg (ppm)	0.5	99	95	70-117	4
Ethylbenzene	mg/kg (ppm)	0.5	100	95	65-123	5
Xylenes	mg/kg (ppm)	1.5	99	95	66-120	4
Gasoline	mg/kg (ppm)	20	100	105	71-131	5

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 14, 2011

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 10, 2011 from the 101.00418.00005, Stevens Pass-Mini Mart, F&BI 110102 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 10, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, Stevens Pass-Mini Mart project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110102-01	MSW-I2-5
110102-02	MSW-I2-9
110102-03	MNSW-J2-5
110102-04	MNSW-J2-9
110102-05	MWSW-J2-5
110102-06	MWSW-J2-9
110102-07	MSW-J3-5
110102-08	MSW-J3-9

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005, Stevens Pass-Mini Mart, F&BI 110102

Date Extracted: 10/10/11

Date Analyzed: 10/10/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-I2-5 110102-01	<0.02	<0.02	<0.02	<0.06	<2	108
MSW-I2-9 110102-02	<0.02	<0.02	<0.02	<0.06	<2	106
MNSW-J2-5 110102-03	<0.02	<0.02	<0.02	<0.06	<2	107
MNSW-J2-9 110102-04	<0.02	<0.02	<0.02	<0.06	<2	106
MWSW-J2-5 110102-05	<0.02	<0.02	<0.02	<0.06	<2	105
MWSW-J2-9 110102-06	<0.02	<0.02	<0.02	<0.06	<2	110
MSW-J3-5 110102-07	<0.02	<0.02	<0.02	<0.06	<2	107
MSW-J3-9 110102-08	<0.02	<0.02	<0.02	<0.06	<2	107
Method Blank 01-1859 MB	<0.02	<0.02	<0.02	<0.06	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005, Stevens Pass-Mini Mart, F&BI 110102

Date Extracted: 10/10/11

Date Analyzed: 10/10/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MSW-I2-5 110102-01	<50	<250	106
MSW-I2-9 110102-02	<50	<250	108
MNSW-J2-5 110102-03	<50	<250	107
MNSW-J2-9 110102-04	<50	<250	111
MWSW-J2-5 110102-05	<50	<250	122
MWSW-J2-9 110102-06	<50	<250	106
MSW-J3-5 110102-07	<50	<250	108
MSW-J3-9 110102-08	<50	<250	104
Method Blank 01-1856 MB	<50	<250	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005, Stevens Pass-Mini Mart, F&BI 110102

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	84	84	69-120	0
Toluene	mg/kg (ppm)	0.5	96	95	70-117	1
Ethylbenzene	mg/kg (ppm)	0.5	95	95	65-123	0
Xylenes	mg/kg (ppm)	1.5	97	96	66-120	1
Gasoline	mg/kg (ppm)	20	90	95	71-131	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11

Date Received: 10/10/11

Project: 101.00418.00005, Stevens Pass-Mini Mart, F&BI 110102

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110084-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	98	98	64-133	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	95	58-147

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.

Send Report To Mike Staton
 Company SLR Consulting
 Address 2218 20th Ave
 City, State, ZIP Bothell, WA, 98210
 Phone # 425-402-8800 Fax # 425-402-8888

SAMPLERS (signature) [Signature] PO#
 PROJECT NAME/NO. 101-00418-000015
Stens Fast - Mini Mart.
 REMARKS NWTPH-Dx per DRO/HO after silica gel cleanup

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hrs
 Rush charges authorized by J.B.
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS		
M5W-I2-5	01 ^A	10/7/11	11am	Soil	6	X	X	X					
M5W-I2-9	02					X	X	X					
M5W-S2-5	03					X	X	X					North Side Wall
M5W-S2-9	04					X	X	X					North Side Wall
M5W-S2-5	05					X	X	X					West Side Wall
M5W-S2-9	06					X	X	X					West Side Wall
M5W-S3-5	07					X	X	X					
M5W-S3-9	08					X	X	X					
													Samples received at 1 °C

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

Relinquished by: [Signature] SIGNATURE
 Received by: [Signature] PRINT NAME
 Relinquished by: [Signature] COMPANY
 Received by: [Signature] DATE
 Relinquished by: [Signature] TIME
 Received by: [Signature] DATE
 Received by: [Signature] TIME

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 21, 2011

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 18, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1021R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 18, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110233-01	MSW-E6-10
110233-02	MSW-G6-5
110233-03	MSW-G6-10
110233-04	MSW-H6-5
110233-05	MSW-H6-10
110233-06	MSW-I6-5
110233-07	MSW-I6-10
110233-08	MSW-J6-5
110233-09	MSW-J6-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/18/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233

Date Extracted: 10/18/11

Date Analyzed: 10/18/11 and 10/19/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-E6-10 110233-01	<0.02	<0.02	0.92	1.4	150	ip
MSW-G6-5 110233-02	<0.02	<0.02	<0.02	<0.06	<2	104
MSW-G6-10 110233-03	<0.02	<0.02	<0.02	<0.06	<2	105
MSW-H6-5 110233-04	<0.02	<0.02	<0.02	<0.06	<2	104
MSW-H6-10 110233-05	<0.02	<0.02	<0.02	<0.06	<2	103
MSW-I6-5 110233-06	<0.02	<0.02	<0.02	<0.06	<2	102
MSW-I6-10 110233-07	<0.02	<0.02	<0.02	<0.06	<2	102
MSW-J6-5 110233-08	<0.02	<0.02	<0.02	<0.06	<2	103
MSW-J6-10 110233-09	<0.02	<0.02	<0.02	<0.06	<2	104
Method Blank 01-1903 MB	<0.02	<0.02	<0.02	<0.06	<2	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/18/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233

Date Extracted: 10/18/11

Date Analyzed: 10/18/11 and 10/19/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL**

USING METHOD NWTPH-Dx

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MSW-E6-10 110233-01	880	<250	124
MSW-G6-5 110233-02	61	<250	120
MSW-G6-10 110233-03	<50	<250	123
MSW-H6-5 110233-04	<50	<250	123
MSW-H6-10 110233-05	<50	<250	124
MSW-I6-5 110233-06	<50	<250	125
MSW-I6-10 110233-07	<50	<250	125
MSW-J6-5 110233-08	<50	<250	122
MSW-J6-10 110233-09	<50	<250	122
Method Blank 01-1901 MB	<50	<250	119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/18/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110233-03 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	84	69-120
Toluene	mg/kg (ppm)	0.5	97	70-117
Ethylbenzene	mg/kg (ppm)	0.5	97	65-123
Xylenes	mg/kg (ppm)	1.5	98	66-120
Gasoline	mg/kg (ppm)	20	85	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/18/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110233

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110233-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	117	115	73-135	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	117	74-139

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.

SAMPLE CHAIN OF CUSTODY ME 10/18/11
 Page # 1 of 2
 Wd/DOY

SAMPLERS (signature) _____
 PROJECT NAME/NO. PO#
STEVENS PASS 10100418-00005
MINI MART AREA
10100418-00005
 REMARKS NWTPH-Dx for URO & HO
after silica gel cleanup
Relevant matrix

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 Day
 Rush charges authorized by
CAL
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
MSW-EG-10	01F	10/17/11	0900	SOIL	6	X	X	X				
MSW-GG-5	02		1130			X	X	X				
MSW-GG-10	03		1140			X	X	X				
MSW-HG-5	04		1300			X	X	X				
MSW-HG-10	05		1445			X	X	X				
MSW-IG-5	06		1500			X	X	X				
MSW-IG-10	07		1515			X	X	X				
MSW-JG-5	08		1630			X	X	X				
MSW-JG-10	09		1640			X	X	X				

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

FORMS\COC\COC.DOC

SIGNATURE _____
 Relinquished by: _____
 Received by: Chris Lee
 Relinquished by: _____
 Received by: _____

PRINT NAME
CHRIS LEE
VINCE

COMPANY
SLR
FB

DATE
10/18/11
10/18/11

TIME
R:15
12:15

Samples received at _____ °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 21, 2011

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 14, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1021R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 14, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110205-01	MSW-H1-5
110205-02	MSW-H1-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/14/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205

Date Extracted: 10/17/11

Date Analyzed: 10/17/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MSW-H1-5 110205-01	<0.02	<0.02	<0.02	<0.06	<2	101
MSW-H1-10 110205-02	<0.02	<0.02	<0.02	<0.06	<2	104
Method Blank 01-1892 MB	<0.02	<0.02	<0.02	<0.06	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/14/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205

Date Extracted: 10/17/11

Date Analyzed: 10/17/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MSW-H1-5 110205-01	66 x	<250	107
MSW-H1-10 110205-02	<50	<250	109
Method Blank 01-1889 MB	<50	<250	118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/14/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110205-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	96	69-120
Toluene	mg/kg (ppm)	0.5	108	70-117
Ethylbenzene	mg/kg (ppm)	0.5	108	65-123
Xylenes	mg/kg (ppm)	1.5	109	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/14/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110205

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110205-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	127	128	63-146	1

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	110	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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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

October 21, 2011

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 12, 2011 from the 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1021R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 12, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110121-01	MSW-D5-5
110121-02	MSW-D5-10
110121-03	MSW-E5-5
110121-04	MSW-E5-10
110121-05	MSW-F5-5
110121-06	MSW-F5-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/12/11

Project: 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154

Date Extracted: 10/13/11

Date Analyzed: 10/13/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW-D5-5 110154-01	<0.02	<0.02	<0.02	<0.06	<2	109
MSW-D5-10 110154-02	<0.02	<0.02	<0.02	<0.06	<2	105
MSW-E5-5 110154-03	<0.02	<0.02	<0.02	<0.06	<2	106
MSW-E5-10 110154-04	<0.02	<0.02	0.052	<0.06	58	103
MSW-F5-5 110154-05	<0.02	<0.02	<0.02	<0.06	6.2	105
MSW-F5-10 110154-06	<0.02	<0.02	<0.02	<0.06	3.1	105
Method Blank 01-1870 MB	<0.02	<0.02	<0.02	<0.06	<2	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/12/11

Project: 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154

Date Extracted: 10/13/11

Date Analyzed: 10/13/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
MSW-D5-5 110154-01	<50	<250	105
MSW-D5-10 110154-02	<50	<250	109
MSW-E5-5 110154-03	<50	<250	109
MSW-E5-10 110154-04	<50	<250	114
MSW-F5-5 110154-05	<50	<250	109
MSW-F5-10 110154-06	<50	<250	111
Method Blank 01-1867MB2	<50	<250	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/12/11

Project: 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110131-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	92	69-120
Toluene	mg/kg (ppm)	0.5	104	70-117
Ethylbenzene	mg/kg (ppm)	0.5	104	65-123
Xylenes	mg/kg (ppm)	1.5	105	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/11

Date Received: 10/12/11

Project: 101.00418.00005 Stevens Pass Mini Mart, F&BI 110154

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110102-06 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	125	128	63-146	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

110154

SAMPLE CHAIN OF CUSTODY

NOV 10/12/11

VS4 604

Send Report To Mike Stator
 Company SLR Consulting
 Address 22118 20th Ave
 City, State, ZIP Bothell, WA 98210
 Phone # 425 402 8900 Fax # _____

SAMPLERS (signature) _____
 PROJECT NAME/NO. _____
101-00418-00005
Stevens Pass - Mini Mart
 REMARKS
WTPit - dx for HO & DED after silica
gel cleanup pickup at Monroe

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
MSW-D5-5	01 A-F	(NP) 10-12-11		Soil	6	X	X	X				
MSW-D5-10	02 A-F	12/1/11				X	X	X				
MSW-E5-5	03 A-F					X	X	X				
MSW-E5-10	04 A-F					X	X	X				
MSW-E5-5	05 A-F					X	X	X				
MSW-E5-10	06 A-F					X	X	X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	John Gordon	SLR	10/12/11	4:50
Received by: _____	WJH	FBI	10/12/11	4:50
Relinquished by: _____	_____	_____	_____	_____
Received by: _____	_____	_____	_____	_____

Relinquished by: _____
 Received by: _____
 Relinquished by: _____
 Received by: _____
 Samples received at 3 °C

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 27, 2011

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

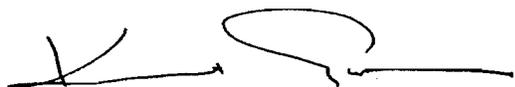
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 24, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 24, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110311-01	MESW-K4-5
110311-02	MESW-K4-10
110311-03	MSW-K5-5
110311-04	MSW-K5-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311

Date Extracted: 10/24/11

Date Analyzed: 10/25/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MESW-K4-5 110311-01	<0.02	<0.02	<0.02	<0.06	<2	100
MESW-K4-10 110311-02	<0.02	<0.02	<0.02	<0.06	<2	107
MSW-K5-5 110311-03	<0.02	<0.02	<0.02	<0.06	<2	105
MSW-K5-10 110311-04	<0.02	<0.02	<0.02	0.13	17	106
Method Blank 01-1923 MB	<0.02	<0.02	<0.02	<0.06	<2	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311

Date Extracted: 10/24/11

Date Analyzed: 10/24/11 and 10/25/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
MESW-K4-5 110311-01	<50	<250	109
MESW-K4-10 110311-02	<50	<250	112
MSW-K5-5 110311-03	<50	<250	117
MSW-K5-10 110311-04	930	<250	114
Method Blank 01-1925 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110311-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	91	69-120
Toluene	mg/kg (ppm)	0.5	102	70-117
Ethylbenzene	mg/kg (ppm)	0.5	103	65-123
Xylenes	mg/kg (ppm)	1.5	103	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110311

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110312-07 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	101	100	64-133	1

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	58-147

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.

110311 ME 10/24/11 11/1/2003

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 Day
 Rush charges authorized by
CR

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

SAMPLERS (signature) _____

PROJECT NAME/NO.
STEVENS PMS 10100418.0005

MINI MART AREA
10100418.0005

REMARKS NWTPH-Dx for DRO & HO after silica gel cleanup.
Samples were frozen after collection.

Send Report To MIKE STATION

Company SUR INTERNATIONAL CORP

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425)402-8800 Fax # (425)402-8488

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS		
MESW-K4-5	01F	10/21/11	1415	SOIL	6	XXX	XXX						
MESW-K4-10	02		1420			↓	↓						
MSW-K5-5	03		1440			↓	↓						
MSW-K5-10	04V		1445			↓	↓						

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

Relinquished by: _____

Received by: Mike Station

Relinquished by: _____

Received by: _____

PRINT NAME: Chris Lee COMPANY: SUR DATE: 10/24/11 TIME: 1030

PRINT NAME: Phan Phan COMPANY: FE B I DATE: 10/24/11 TIME: 1030

Received at: 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 31, 2011

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 20, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1031R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 20, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110284-01	MWSW-K4-5
110284-02	MWSW-K4-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/11

Date Received: 10/20/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284

Date Extracted: 10/21/11

Date Analyzed: 10/21/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MWSW-K4-5 110284-01	<0.02	<0.02	<0.02	<0.06	<2	105
MWSW-K4-10 110284-02	<0.02	<0.02	<0.02	<0.06	<2	107
Method Blank 01-1916 MB	<0.02	<0.02	<0.02	<0.06	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/11

Date Received: 10/20/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284

Date Extracted: 10/21/11

Date Analyzed: 10/21/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MWSW-K4-5 110284-01	<50	<250	112
MWSW-K4-10 110284-02	<50	<250	118
Method Blank 01-1915 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/11

Date Received: 10/20/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110278-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	81	66-121
Toluene	mg/kg (ppm)	0.5	90	72-128
Ethylbenzene	mg/kg (ppm)	0.5	92	69-132
Xylenes	mg/kg (ppm)	1.5	94	69-131
Gasoline	mg/kg (ppm)	20	115	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/11

Date Received: 10/20/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110284

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110273-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	87	94	64-133	8

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 4, 2011

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 28, 2011 from the Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 28, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
110381-01

SLR International Corp.
MSW(2)-K5-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381

Date Extracted: 10/28/11

Date Analyzed: 10/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW(2)-K5-10 110381-01	<0.02	<0.02	<0.02	<0.06	<2	100
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381

Date Extracted: 10/28/11

Date Analyzed: 10/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
MSW(2)-K5-10 110381-01	<50	<250	119
Method Blank 01-1959 MB	<50	<250	114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110381

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110382-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	117	63-146	6

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 3, 2011

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 26, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110358-01	MSW(2)-E6-10
110358-02	MSW-K6-5
110358-03	MSW-K6-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358

Date Extracted: 10/27/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
MSW(2)-E6-10 110358-01	<0.02	<0.02	0.16	0.12	93	106
MSW-K6-5 110358-02	<0.02	<0.02	<0.02	0.48	<2	102
MSW-K6-10 110358-03	<0.02	<0.02	<0.02	<0.06	<2	102
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358

Date Extracted: 10/26/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MSW(2)-E6-10 110358-01	650	<250	125
MSW-K6-5 110358-02	<50	<250	114
MSW-K6-10 110358-03	<50	<250	114
Method Blank 01-1951 MB	<50	<250	123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110358

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110358-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	540	101	111	63-146	9

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	105	79-144

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.

STOCKPILE SOIL SAMPLES

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 12, 2011

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 September 7, 2011 from the Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR0912R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109081-01	SP1-8-6-27-4
109081-02	SP1-12-5-22-2
109081-03	SP1-23-10-6-6
109081-04	SP1-6-4-16-2
109081-05	SP1-36-4-3-3

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081

Date Extracted: 09/08/11

Date Analyzed: 09/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery) (Limit 50-132)</u>
SP1-8-6-27-4 109081-01	<0.02	<0.02	<0.02	<0.06	<2	105
SP1-12-5-22-2 109081-02	<0.02	<0.02	<0.02	<0.06	<2	106
SP1-23-10-6-6 109081-03	<0.02	<0.02	<0.02	<0.06	<2	105
SP1-6-4-16-2 109081-04	<0.02	<0.02	<0.02	<0.06	<2	108
SP1-36-4-3-3 109081-05	<0.02	<0.02	<0.02	<0.06	<2	106
Method Blank 01-1627 MB	<0.02	<0.02	<0.02	<0.06	<2	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081

Date Extracted: 09/08/11

Date Analyzed: 09/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
SP1-8-6-27-4 109081-01	66 x	550	122
SP1-12-5-22-2 109081-02	81 x	670	124
SP1-23-10-6-6 109081-03	70 x	590	122
SP1-6-4-16-2 109081-04	83 x	770	122
SP1-36-4-3-3 109081-05	79 x	560	125
Method Blank 01-1628 MB2	<50	<250	119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109061-04 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	95	66-121
Toluene	mg/kg (ppm)	0.5	96	72-128
Ethylbenzene	mg/kg (ppm)	0.5	101	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	105	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/12/11

Date Received: 09/07/11

Project: Stevens Pass-Mini Mart Area 101.00418.00005, F&BI 109081

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 109077-04 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	117	123	63-146	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

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.
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- 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.

109081

SAMPLE CHAIN OF CUSTODY

KJ 0910+11

1 V-1/AQ3

Page #

Send Report To MIKE STATION

Company SLR INTERNATIONAL CORP

Address 22118 20TH AVE SE, ST-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425)422-8800 Fax # (425)422-8488

SAMPLERS (signature)

PROJECT NAME/NO.

STEVENS PASS

FORMER MINI MARKET AREA

101.0048.0005

REMARKS NWTPH-Dx for DRO & HO after silica gel cleanup.

PICKUP at Nankoe

PO#

101.0048.0005

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 day
Rush charges authorized by
etc

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
SP1-8-6-27-4	01 A-F	9/7/11	1335	SOIL	6	X	X					
SP1-12-5-22-2	02 A-F		1345									
SP1-23-10-6-6	03 A-F		1355									
SP1-6-4-16-2	04 A-F		1405									
SP1-36-4-3-3	05 A-F		1415									

Samples received at 2 °C

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

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by:

Received by:

SIGNATURE

PRINT NAME

John Gordon

VINH

COMPANY

SLR

FBI

DATE

7/9/11

7/9/11

TIME

3:45

3:48

**NORTHERN MINI MART AREA
EXCAVATION SAMPLES**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 8, 2011

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 August 31, 2011 from the Stevens Pass Former Station PO 101-00418, F&BI 108536 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0908R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Former Station PO 101-00418, F&BI 108536 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
108536-01	Water Trench-6
108536-02	Water Trench-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass Former Station PO 101-00418, F&BI 108536

Date Extracted: 09/01/11

Date Analyzed: 09/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
Water Trench-6 108536-01	<0.02	<0.02	3.4	4.8	1,700 ve	ip
Water Trench-10 108536-02	<0.02	<0.02	<0.02	<0.06	3.9	106
Method Blank 01-1593 MB	<0.02	<0.02	<0.02	<0.06	<2	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass Former Station PO 101-00418, F&BI 108536

Date Extracted: 09/01/11

Date Analyzed: 09/01/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
Water Trench-6 108536-01	16,000	<250	119
Water Trench-10 108536-02	<50	<250	117
Method Blank 01-1588 MB2	<50	<250	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass Former Station PO 101-00418, F&BI 108536

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	95	93	66-121	2
Toluene	mg/kg (ppm)	0.5	95	93	72-128	2
Ethylbenzene	mg/kg (ppm)	0.5	99	96	69-132	3
Xylenes	mg/kg (ppm)	1.5	98	96	69-131	2
Gasoline	mg/kg (ppm)	20	110	100	61-153	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 08/31/11

Project: Stevens Pass Former Station PO 101-00418, F&BI 108536

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 108510-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	114	73-135	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	115	74-139

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 27, 2011

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 19, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 19, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110260-01	NMSW-N2-5
110260-02	NMSW-N2-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260

Date Extracted: 10/20/11

Date Analyzed: 10/20/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
NMSW-N2-5 110260-01	<0.02	<0.02	<0.02	<0.06	<2	104
NMSW-N2-10 110260-02	<0.02	<0.02	<0.02	<0.06	<2	104
Method Blank 01-1907 MB	<0.02	<0.02	<0.02	<0.06	<2	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260

Date Extracted: 10/20/11

Date Analyzed: 10/20/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
NMSW-N2-5 110260-01	90	<250	98
NMSW-N2-10 110260-02	100	<250	102
Method Blank 01-1910 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	86	84	69-120	2
Toluene	mg/kg (ppm)	0.5	97	99	70-117	2
Ethylbenzene	mg/kg (ppm)	0.5	96	100	65-123	4
Xylenes	mg/kg (ppm)	1.5	97	100	66-120	3
Gasoline	mg/kg (ppm)	20	87	84	71-131	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110260

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110259-06 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	300	113	112	73-135	1

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

October 27, 2011

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 20, 2011 from the Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 20, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110285-01	NMSSW-M2-5
110285-02	NMSSW-M2-10
110285-03	NMWSW-M2-5
110285-04	NMWSW-M2-10
110285-05	NMESW-M3-5
110285-06	NMESW-M3-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/20/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285

Date Extracted: 10/21/11

Date Analyzed: 10/21/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NMSSW-M2-5 110285-01	<0.02	<0.02	0.031	<0.06	5.9	106
NMSSW-M2-10 110285-02	<0.02	<0.02	<0.02	<0.06	<2	108
NMWSW-M2-5 110285-03	<0.02	<0.02	0.071	<0.06	20	108
NMWSW-M2-10 110285-04	<0.02	<0.02	<0.02	<0.06	<2	108
NMESW-M3-5 110285-05	<0.02	<0.02	<0.02	0.11	21	99
NMESW-M3-10 110285-06	<0.02	<0.02	<0.02	<0.06	<2	106
Method Blank 01-1916 MB	<0.02	<0.02	<0.02	<0.06	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/20/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285

Date Extracted: 10/21/11

Date Analyzed: 10/21/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
NMSSW-M2-5 110285-01	850	<250	100
NMSSW-M2-10 110285-02	<50	<250	102
NMWSW-M2-5 110285-03	3,600	<250	103
NMWSW-M2-10 110285-04	<50	<250	100
NMESW-M3-5 110285-05	<50	<250	100
NMESW-M3-10 110285-06	<50	<250	106
Method Blank 01-1915 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/20/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110278-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	81	66-121
Toluene	mg/kg (ppm)	0.5	90	72-128
Ethylbenzene	mg/kg (ppm)	0.5	92	69-132
Xylenes	mg/kg (ppm)	1.5	94	69-131
Gasoline	mg/kg (ppm)	20	115	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/20/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110285

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110273-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	87	94	64-133	8

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	58-147

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.

Send Report To MIKE STATION
 Company SUR INTERNATIONAL CORP
 Address 22118 20TH AVE SE, G-202
 City, State, ZIP BOTHELL, WA 98021
 Phone # (425) 402-8800 Fax # (425) 400-8488

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. STEVENS PASS NORTH MINI MARKET AREA
 PO# 10100418.0005
 REMARKS NMTPH-Dx for DRO & HO after silica-gel cleanup at Norwoc

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 Day
 Rush charges authorized by CR
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
NMSSW-M2-5	01 A-F	10/20/11	1350	Soil	6	X	X	X				
NMSSW-M2-10	02 A-F		1355									
NMWSW-M2-5	03 A-F		0935									
NMWSW-M2-10	04 A-F		0940									
NMESW-M3-5	05 A-F		1325									
NMESW-M3-10	06 A-F		1330									

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

Relinquished by: [Signature] PRINT NAME: CHARIS LEE COMPANY: SLR DATE: 10/20/11 TIME: 1540
 Received by: [Signature] PRINT NAME: VINHA COMPANY: FBI DATE: 10/20/11 TIME: 1540
 Relinquished by: _____
 Received by: _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 27, 2011

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

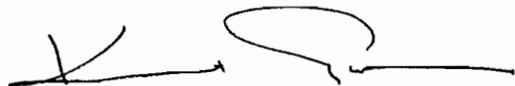
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 24, 2011 from the Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 24, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110312-01	NMSSW-M3-5
110312-02	NMNSW-N3-5
110312-03	NMESW-N3-5
110312-04	NMESW-N3-10
110312-05	NMNSW-O2-5
110312-06	NMNSW-O2-10
110312-07	NMWSW-O2-5
110312-08	NMWSW-O2-10
110312-09	NMSW-O3-5
110312-10	NMSW-O3-10
110312-11	NMFL-N3-5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312

Date Extracted: 10/24/11

Date Analyzed: 10/24/11 and 10/25/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NMSSW-M3-5 110312-01	<0.02	<0.02	0.068	0.10	91	109
NMNSW-N3-5 110312-02	<0.02	<0.02	<0.02	<0.06	7.5	101
NMESW-N3-5 110312-03	<0.02	<0.02	<0.02	<0.06	<2	103
NMESW-N3-10 110312-04	<0.02	<0.02	<0.02	<0.06	<2	104
NMNSW-O2-5 110312-05	<0.02	<0.02	<0.02	<0.06	9.0	102
NMNSW-O2-10 110312-06	<0.02	<0.02	<0.02	<0.06	7.6	104
NMWSW-O2-5 110312-07	<0.02	<0.02	<0.02	<0.06	<2	105
NMWSW-O2-10 110312-08	<0.02	<0.02	<0.02	<0.06	<2	106
NMSW-O3-5 110312-09	<0.02	<0.02	<0.02	<0.06	34	107
NMSW-O3-10 110312-10	<0.02	<0.02	<0.02	<0.06	<2	108
NMFL-N3-5 110312-11	<0.02	<0.02	0.052	<0.06	59	108
Method Blank 01-1923 MB	<0.02	<0.02	<0.02	<0.06	<2	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312

Date Extracted: 10/24/11

Date Analyzed: 10/25/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
NMSSW-M3-5 110312-01	2,400	1,100	111
NMNSW-N3-5 110312-02	<50	<250	108
NMESW-N3-5 110312-03	120	330	108
NMESW-N3-10 110312-04	<50	<250	108
NMNSW-O2-5 110312-05	<50	<250	106
NMNSW-O2-10 110312-06	930	<250	111
NMWSW-O2-5 110312-07	<50	<250	108
NMWSW-O2-10 110312-08	<50	<250	101
NMSW-O3-5 110312-09	<50	<250	107
NMSW-O3-10 110312-10	<50	<250	106
NMFL-N3-5 110312-11	500	<250	108
Method Blank 01-1925 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110311-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	91	69-120
Toluene	mg/kg (ppm)	0.5	102	70-117
Ethylbenzene	mg/kg (ppm)	0.5	103	65-123
Xylenes	mg/kg (ppm)	1.5	103	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/24/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110312

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110312-07 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	101	100	64-133	1

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	58-147

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.

110312

SAMPLE CHAIN OF CUSTODY ME 10/24/11

Page # 1 of 2

Send Report To MIKE STATION
 Company SLR INTERNATIONAL CORP
 Address 2218 20TH AVE SE, G-202
 City, State, ZIP BOTHELL, WA 98021
 Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS (signature) [Signature] PO# 101004180005
 PROJECT NAME/NO. STEVENS PASS
NORTH MINI MART AREA
10100418.0005
 REMARKS NWTPH-Dx for DRO & HO
after silica gel cleanup
Samples were frozen after collection

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 Day
 Rush charges authorized by
CAL
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
NMSSW-M3-5	A-01 F	10/21/11	1025	Soil	6	X	X	X				
NMNSW-N3-5	02		1520									
NMESW-N3-5	03		1510									
NMESW-N3-10	04		0950									
NMNSW-02-5	05		1340									
NMNSW-02-10	06		1345									
NMWSW-02-5	07		1400									
NMWSW-02-10	08		1405									
NMSW-03-5	09		1000									
NMSW-03-10	10		1005									

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	CHRIS LEE	SLR	10/24/11	1030
Received by: <u>[Signature]</u>	Nhan Phan	FBI	10/24/11	1030
Relinquished by:				
Received by:				

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 3, 2011

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 26, 2011 from the Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', written over a horizontal line.

Kurt Johnson
Chemist

Enclosures
SLR1103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
110357-01

SLR International Corp.
NMWSW(2)-M2-5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357

Date Extracted: 10/27/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NMWSW(2)M2-5 110357-01	<0.02	<0.02	<0.02	<0.06	<2	100
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357

Date Extracted: 10/26/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
NMWSW(2)M2-5 110357-01	<50	<250	114
Method Blank 01-1951 MB	<50	<250	123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/26/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110357

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110358-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	540	101	111	63-146	9

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	105	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 3, 2011

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 27, 2011 from the Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1103R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110367-01	NMSSW(2)-M3-5
110367-02	NMFL-N3-8
110367-03	NMSW(2)-O3-5
110367-04	NMSW-P2-10

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/27/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367

Date Extracted: 10/27/11

Date Analyzed: 10/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NMSSW(2)-M3-5 110367-01	<0.02	0.054	0.080	<0.06	63	96
NMFL-N3-8 110367-02	<0.02	<0.02	<0.02	0.83	72	97
NMSW(2)-O3-5 110367-03	<0.02	<0.02	<0.02	<0.06	19	100
NMSW-P2-10 110367-04	<0.02	<0.02	<0.02	<0.06	<2	101
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/27/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367

Date Extracted: 10/27/11

Date Analyzed: 10/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 53-144)
NMSSW(2)-M3-5 110367-01	1,000	390	116
NMFL-N3-8 110367-02	<50	<250	112
NMSW(2)-O3-5 110367-03	270	<250	111
NMSW-P2-10 110367-04	<50	<250	110
Method Blank 01-1951 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/27/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/11

Date Received: 10/27/11

Project: Stevens Pass North Mini Mart Area 101.00418.00005, F&BI 110367

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110358-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	540	101	111	63-146	9

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	105	79-144

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 4, 2011

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 28, 2011 from the Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 28, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
110382 -01

SLR International Corp.
NMSW-L2-5

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382

Date Extracted: 10/28/11

Date Analyzed: 10/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-132)
NMSW-L2-5 110382-01	<0.02	<0.02	<0.02	<0.06	<2	102
Method Blank 01-1953 MB	<0.02	<0.02	<0.02	<0.06	<2	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382

Date Extracted: 10/28/11

Date Analyzed: 10/28/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
NMSW-L2-5 110382-01	<50	<250	113
Method Blank 01-1959 MB	<50	<250	114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110357-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	87	66-121
Toluene	mg/kg (ppm)	0.5	95	72-128
Ethylbenzene	mg/kg (ppm)	0.5	99	69-132
Xylenes	mg/kg (ppm)	1.5	100	69-131
Gasoline	mg/kg (ppm)	20	120	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/28/11

Project: Stevens Pass N Mini Mart Area, PO No. 101.00418.00005, F&BI 110382

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 110382-01 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	117	63-146	6

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	96	79-144

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.
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- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
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- ht - Analysis performed outside the method or client-specified holding time requirement.
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- 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.

GROUNDWATER TREATMENT SYSTEM SAMPLES

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

3012 16th Avenue West
Seattle, WA 98119-2029
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e-mail: fbi@isomedia.com

September 2, 2011

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 August 29, 2011 from the 101.00418.00003, F&BI 108491 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0902R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 29, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00003, F&BI 108491 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
108491-01	Pre Carbon-82911
108491-02	Carbon 2-Influent-82911
108491-03	System Effluent-82911

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11
 Date Received: 08/29/11
 Project: 101.00418.00003, F&BI 108491
 Date Extracted: 08/30/11
 Date Analyzed: 08/30/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre Carbon-82911 108491-01	11	60	78	450 ve	3,900	121
Carbon 2-Influent-82911 108491-02	<1	<1	<1	<3	<100	97
System Effluent-82911 108491-03	<1	<1	<1	<3	<100	103
Method Blank 01-1586 MB	<1	<1	<1	<3	<100	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11
Date Received: 08/29/11
Project: 101.00418.00003, F&BI 108491
Date Extracted: 08/30/11
Date Analyzed: 08/31/11 and 09/01/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre Carbon-82911 108491-01	2,000 x	<250	131
Carbon 2-Influent-82911 108491-02	65 x	<250	119
System Effluent-82911 108491-03	<50	<250	120
Method Blank 01-1576 MB	<50	<250	133

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11
 Date Received: 08/29/11
 Project: 101.00418.00003, F&BI 108491

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES, AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 108381-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	96	72-119
Toluene	ug/L (ppb)	50	94	71-113
Ethylbenzene	ug/L (ppb)	50	96	72-114
Xylenes	ug/L (ppb)	150	93	72-113
Gasoline	ug/L (ppb)	1,000	96	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/11

Date Received: 08/29/11

Project: 101.00418.00003, F&BI 108491

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	110	111	63-142	1

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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3012 16th Avenue West
Seattle, WA 98119-2029
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e-mail: fbi@isomedia.com

September 8, 2011

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 September 2, 2011 from the Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0908R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109044-01	Pre Carbon-9211
109044-02	Carbon2-Influent-9211
109044-03	System Effluent-9211

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre Carbon-9211 109044-01	4.4	14	5.1	150	1,100	106
Carbon2-Influent-9211 109044-02	<1	<1	<1	<3	<100	96
System Effluent-9211 109044-03	<1	<1	<1	<3	<100	101
Method Blank 01-1615 MB	<1	<1	<1	<3	<100	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044

Date Extracted: 09/06/11

Date Analyzed: 09/06/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre Carbon-9211 109044-01	99 x	<250	66
Carbon2-Influent-9211 109044-02	<50	<250	77
System Effluent-9211 109044-03	<50	<250	67
Method Blank 01-1614 MB	<50	<250	71

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109044-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	72-119
Toluene	ug/L (ppb)	50	91	71-113
Ethylbenzene	ug/L (ppb)	50	96	72-114
Xylenes	ug/L (ppb)	150	91	72-113
Gasoline	ug/L (ppb)	1,000	101	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/08/11

Date Received: 09/02/11

Project: Stevens Pass-Mini Mart 101.00413 00005, F&BI 109044

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	89	86	58-134	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
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- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 16, 2011

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 September 9, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0916R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 9, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109127-01	Pre-Carbon-090911
109127-02	Carbon2-Influent-090911
109127-03	System-Effluent-090911

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126

Date Extracted: 09/12/11

Date Analyzed: 09/12/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre-Carbon-090911 109126-01	1.4	2.4	<1	26	250	108
Carbon2-Influent-090911 109126-02	7.3	11	1.1	7.9	<100	108
System-Effluent-090911 109126-03	<1	3.2	<1	<3	<100	110
Method Blank 01-1686 MB	<1	<1	<1	<3	<100	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126

Date Extracted: 09/09/11

Date Analyzed: 09/12/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
Pre-Carbon-090911 109126-01	76 x	<250	92
Carbon2-Influent-090911 109126-02	<50	<250	91
System-Effluent-090911 109126-03	<50	<250	85
Method Blank 01-1635 MB2	<50	<250	85

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109131-04 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	72-119
Toluene	ug/L (ppb)	50	92	71-113
Ethylbenzene	ug/L (ppb)	50	96	72-114
Xylenes	ug/L (ppb)	150	92	72-113
Gasoline	ug/L (ppb)	1,000	96	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/16/11

Date Received: 09/09/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 109126

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	98	61-133	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

September 21, 2011

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

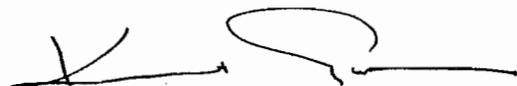
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 14, 2011 from the 101.00418.00005, F&BI 109190 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0921R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 14, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109190-01	Pre Carbon-91411
109190-02	Carbon2-Influent-91411
109190-03	System Effluent-91411

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/14/11
Project: 101.00418.00005, F&BI 109190
Date Extracted: 09/15/11
Date Analyzed: 09/15/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre Carbon-91411 109190-01	<1	1.0	1.2	7.3	120	110
Carbon2-Influent-91411 109190-02	<1	<1	<1	<3	<100	111
System Effluent-91411 109190-03	<1	<1	<1	<3	<100	108
Method Blank 01-1705 MB	<1	<1	<1	<3	<100	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
Date Received: 09/14/11
Project: 101.00418.00005, F&BI 109190
Date Extracted: 09/14/11
Date Analyzed: 09/15/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre Carbon-91411 109190-01	66 x	<250	92
Carbon2-Influent-91411 109190-02	<50	<250	91
System Effluent-91411 109190-03	<50	<250	103
Method Blank 01-1698 MB	<50	<250	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11
 Date Received: 09/14/11
 Project: 101.00418.00005, F&BI 109190

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES, AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109190-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	72-119
Toluene	ug/L (ppb)	50	95	71-113
Ethylbenzene	ug/L (ppb)	50	98	72-114
Xylenes	ug/L (ppb)	150	93	72-113
Gasoline	ug/L (ppb)	1,000	96	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/11

Date Received: 09/14/11

Project: 101.00418.00005, F&BI 109190

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	99	92	63-142	7

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.

109190
 SAMPLE CHAIN OF CUSTODY
 Date # 09/14/11 of 1/A02
 SAMPLERS (signature) *[Signature]*
 PROJECT NAME/NO. PO#
 101-00418-0000

Send Report To Mike Stator
 Company SLR Consulting
 Address 2218 20th Ave
 City, State, ZIP Bothell, WA, 98010
 Phone # 425-402-3800 Fax # 425-402-8488

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3.6.
 Rush charges authorized by

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

REMARKS
 MUTPH-12 for DRO & HO after silica
 Gel Cleanup. PICK UP at Airport

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
Pre Carbon-91411	01 A-E	9/14/11	1pm	Water	5	X	X	X				
Carbon-2-Toluene-91411	02 A-E	↓	↓	↓	5	X	X	X				
System Solvent-91411	03 A-E	↓	↓	↓	5	X	X	X				

SIGNATURE		PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	John Gordon	SLR		9/14/11	3:30
Received by: <i>[Signature]</i>	VIAH	FBI		9/14/11	9:45
Relinquished by:					
Received by:		Samples received at		8 °C	

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 28, 2011

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 September 21, 2011 from the Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0928R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 21, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109302-01	Pre Carbon-92111
109302-02	Carbon 2-Influent-92111
109302-03	System Effluent-92111

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/28/11

Date Received: 09/21/11

Project: Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302

Date Extracted: 09/22/11

Date Analyzed: 09/22/11 and 09/23/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre Carbon-92111 109302-01	6.8	19	29	220	1,900	117
Carbon 2-Influent-92111 109302-02	<1	<1	<1	<3	<100	105
System Effluent-92111 109302-03	<1	<1	<1	<3	<100	107
Method Blank 01-1747 MB	<1	<1	<1	<3	<100	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/28/11

Date Received: 09/21/11

Project: Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302

Date Extracted: 09/22/11

Date Analyzed: 09/22/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre Carbon-92111 109302-01	360 x	<250	85
Carbon 2-Influent-92111 109302-02	<50	<250	91
System Effluent-92111 109302-03	<50	<250	84
Method Blank 01-1736 MB2	<50	<250	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/28/11

Date Received: 09/21/11

Project: Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109302-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	97	72-119
Toluene	ug/L (ppb)	50	94	71-113
Ethylbenzene	ug/L (ppb)	50	96	72-114
Xylenes	ug/L (ppb)	150	93	72-113
Gasoline	ug/L (ppb)	1,000	96	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/28/11

Date Received: 09/21/11

Project: Stevens Pass-Mini Mart, 101.00410.00005, F&BI 109302

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	82	94	58-134	14

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.
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- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 30, 2011

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

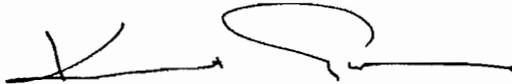
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 27, 2011 from the Stevens Pass Mini Mart 101-00418-00005, F&BI 109390 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR0930R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart 101-00418-00005, F&BI 109390 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
109390-01	Pre Carbon-92711
109390-02	Carbon 2-Influent-92711
109390-03	System Effluent-92711

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: Stevens Pass Mini Mart 101-00418-00005, F&BI 109390

Date Extracted: 09/28/11

Date Analyzed: 09/28/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Pre Carbon-92711 109390-01	4.9	12	6.1	150	1,500	113
Carbon 2-Influent-92711 109390-02	<1	<1	<1	<3	<100	103
System Effluent-92711 109390-03	<1	<1	<1	<3	<100	104
Method Blank 01-1776 MB	<1	<1	<1	<3	<100	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: Stevens Pass Mini Mart 101-00418-00005, F&BI 109390

Date Extracted: 09/28/11

Date Analyzed: 09/28/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS**

DIESEL AND MOTOR OIL

USING METHOD NWTPH-Dx

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 47-140)
Pre Carbon-92711 109390-01	530 x	<250	73
Carbon 2-Influent-92711 109390-02	83	<250	85
System Effluent-92711 109390-03	<50	<250	75
Method Blank 01-1773 MB	<50	<250	78

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: Stevens Pass Mini Mart 101-00418-00005, F&BI 109390

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 109390-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	99	72-119
Toluene	ug/L (ppb)	50	94	71-113
Ethylbenzene	ug/L (ppb)	50	98	72-114
Xylenes	ug/L (ppb)	150	94	72-113
Gasoline	ug/L (ppb)	1,000	100	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/11

Date Received: 09/27/11

Project: Stevens Pass Mini Mart 101-00418-00005, F&BI 109390

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	93	61-133	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

Send Report To Mike Staton
 Company SLR Consulting
 Address 2218 20th Ave
 City, State, ZIP Bothell, WA, 98021
 Phone # 425-402-8800 Fax # _____

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. Stevens Pass - Min. Mnd
101-00413-00015
 REMARKS NWTPH-Dx go- Ho 3 DRG cpts- silica gel cleanup
Dickens at Monroe

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
Pre Carbon-92711	01 A-D	9/27/11	3pm	Water	4	X	X	X				
Carbon 2-Iglovt-92711	02 A-D	↓	↓	↓	4	X	X	X				
System Expert-92711	03 A-D	↓	↓	↓	A	X	X	X				

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

Relinquished by: [Signature]
 Received by: [Signature]
 Relinquished by: [Signature]
 Received by: _____

PRINT NAME: John Gordon
 COMPANY: SLR
 DATE: 27/9/11 TIME: 4:10
VINLT
 COMPANY: FBI
 DATE: 27/9/11 TIME: 4:00
 Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 13, 2011

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 3, 2011 from the 101.00413.00005, F&BI 110019 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1013R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00413.00005, F&BI 110019 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110019-01	PreCarbon-10311
110019-02	Carbon2-Influent-10311
110019-03	System Effluent-10311

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/11
Date Received: 10/03/11
Project: 101.00413.00005, F&BI 110019
Date Extracted: 10/04/11
Date Analyzed: 10/04/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
PreCarbon-10311 110019-01	2.3	3.1	3.0	83	1,100	114
Carbon2-Influent-10311 110019-02	2.3	6.1	<1	7.2	<100	110
System Effluent-10311 110019-03	<1	<1	<1	<3	<100	110
Method Blank 01-1801 MB	<1	<1	<1	<3	<100	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/11
Date Received: 10/03/11
Project: 101.00413.00005, F&BI 110019
Date Extracted: 10/04/11
Date Analyzed: 10/04/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
PreCarbon-10311 110019-01	300 x	<250	84
Carbon2-Influent-10311 110019-02	<50	<250	79
System Effluent-10311 110019-03	<50	<250	83
Method Blank 01-1798 MB	<50	<250	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/11
 Date Received: 10/03/11
 Project: 101.00413.00005, F&BI 110019

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES, AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110019-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	90	65-118
Toluene	ug/L (ppb)	50	89	72-122
Ethylbenzene	ug/L (ppb)	50	93	73-126
Xylenes	ug/L (ppb)	150	91	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/11

Date Received: 10/03/11

Project: 101.00413.00005, F&BI 110019

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	89	96	58-134	8

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.

110019

SAMPLE CHAIN OF CUSTODY

KJ 10/3/11

1/2 of 1/303

Send Report To Mike Stator
 Company SLR Consulting
 Address 22118 20th Ave
 City, State, ZIP Seattle, WA
 Phone # 206-402-8200 Fax #

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. 101-004130005
 PO#
 REMARKS NOTPH-Dx for DRO & HO after silicon gel cleanup at Home

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-6.
 Rush charges authorized by
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
Pre Carbon-10311	01 A-D	10/3/11	2pm	Water	4	X	X	X				
Carbon 2-Inject-10311	02 A-D	↓	↓	↓	↓	X	X	X				
System Effluent-10311	03 A-D	↓	↓	↓	↓	X	X	X				

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

Relinquished by: [Signature]
 Received by: [Signature]
 Relinquished by: VINNY
 Received by:

PRINT NAME: John Gordon
 COMPANY: SLR
 DATE: 10/3/11 TIME: 3:45
 COMPANY: FBI
 DATE: 10/7/11 TIME: 3:45
 Samples received at 1 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 14, 2011

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 10, 2011 from the 101.00418.00005, F&BI 110101 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1014R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 10, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. 101.00418.00005, F&BI 110101 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110101-01	Pre Carbon-10711
110101-02	Carbon 2-Influent-10711
110101-03	System Effluent-10711

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11
 Date Received: 10/10/11
 Project: 101.00418.00005, F&BI 110101
 Date Extracted: 10/10/11
 Date Analyzed: 10/10/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
Pre Carbon-10711 110101-01	4.8	15	20	170	2,400	125
Carbon 2-Influent-10711 110101-02	<1	<1	<1	<3	<100	110
System Effluent-10711 110101-03	<1	<1	<1	<3	<100	111
Method Blank 01-1857 MB	<1	<1	<1	<3	<100	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11
Date Received: 10/10/11
Project: 101.00418.00005, F&BI 110101
Date Extracted: 10/10/11
Date Analyzed: 10/11/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre Carbon-10711 110101-01	380 x	<250	77
Carbon 2-Influent-10711 110101-02	<50	<250	82
System Effluent-10711 110101-03	<50	<250	101
Method Blank 01-1860 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11
 Date Received: 10/10/11
 Project: 101.00418.00005, F&BI 110101

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES, AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110101-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	89	65-118
Toluene	ug/L (ppb)	50	87	72-122
Ethylbenzene	ug/L (ppb)	50	92	73-126
Xylenes	ug/L (ppb)	150	90	74-118
Gasoline	ug/L (ppb)	1,000	92	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/14/11
Date Received: 10/10/11
Project: 101.00418.00005, F&BI 110101

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	86	86	58-134	0

Data Qualifiers & Definitions

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

October 27, 2011

Mike Staton, Project Manager
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 980211

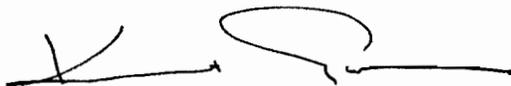
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 19, 2011 from the Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', with a large, stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
SLR1027R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 19, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
110258-01	Pre-Carbon-101911
110258-02	Carbon2-Influent-101911
110258-03	System-Effluent-101911

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258

Date Extracted: 10/20/11

Date Analyzed: 10/20/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
Pre-Carbon-101911 110258-01	<1	2.9	1.9	30	760	109
Carbon2-Influent-101911 110258-02	<1	<1	<1	<3	<100	105
System-Effluent-101911 110258-03	<1	<1	<1	<3	<100	108
Method Blank 01-1912 MB	<1	<1	<1	<3	<100	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258

Date Extracted: 10/20/11

Date Analyzed: 10/20/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Pre-Carbon-101911 110258-01	220 x	<250	76
Carbon2-Influent-101911 110258-02	110	<250	77
System-Effluent-101911 110258-03	<50	<250	72
Method Blank 01-1909 MB	<50	<250	69

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110258-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	94	73-126
Xylenes	ug/L (ppb)	150	93	74-118
Gasoline	ug/L (ppb)	1,000	109	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/27/11

Date Received: 10/19/11

Project: Stevens Pass Mini Mart Area 101.00418.00005, F&BI 110258

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	68	66	58-134	3

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.

DAVID L. CHAIN OF CUSTODY

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

SAMPLERS (signature) _____

PROJECT NAME/NO. STEVENS PASS MINI MART AREA 10100418.0005

PO# 10100418.0005

REMARKS NWTPH - Ox For ORO & HD AFTER SILICA GEL CLEANUP pickup at Stevenspass

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 1 DAY
 Rush charges authorized by CA

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
PRE-CARBON-101911	01 A-E	10/19/11	1300	Water	5	X	X	X				
CARBON2-INFLUENT-101911	02 A-E		1310	↓		↓	↓	↓				
SYSTEM-EFFLUENT-101911	03 A-E	↓	1320	↓	↓	↓	↓	↓				

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

Relinquished by: _____

Received by: Chris Lee

Relinquished by: _____

Received by: _____

SIGNATURE: Chris Lee

PRINT NAME: CHRIS LEE

COMPANY: SLR

DATE: 10/19/11

TIME: 4:00

Samples received at: 2 PC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 4, 2011

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 31, 2011 from the Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404 project. There are 6 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.

A handwritten signature in black ink, appearing to be 'Kurt Johnson', with a stylized flourish at the end.

Kurt Johnson
Chemist

Enclosures
SLR1104R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 31, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
110404 -01

SLR International Corp.
System-Effluent-103111

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/31/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404

Date Extracted: 10/31/11

Date Analyzed: 10/31/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
System-Effluent-103111 110404-01	<1	<1	<1	<3	<100	100
Method Blank 01-1971 MB	<1	<1	<1	<3	<100	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/31/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404

Date Extracted: 10/31/11

Date Analyzed: 11/01/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
System-Effluent-103111 110404-01	<50	<250	85
Method Blank 01-1964 MB	<50	<250	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/31/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 110390-12 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	92	65-118
Toluene	ug/L (ppb)	50	86	72-122
Ethylbenzene	ug/L (ppb)	50	90	73-126
Xylenes	ug/L (ppb)	150	88	74-118
Gasoline	ug/L (ppb)	1,000	105	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/04/11

Date Received: 10/31/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 110404

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	81	86	58-134	6

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.

GROUNDWATER SAMPLES

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 17, 2011

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 November 9, 2011 from the Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005, F&BI 111130 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1117R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 9, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
111130 -01	VMW-2-110711
111130 -02	VMW-3-110711
111130 -03	VMW-4-110711

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005, F&BI 111130

Date Extracted: 11/09/11

Date Analyzed: 11/09/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
VMW-2-110711 111130-01	<1	<1	<1	<3	<100	96
VMW-3-110711 111130-02	<1	<1	<1	<3	<100	97
VMW-4-110711 111130-03	2.0	<1	<1	22	100	97
Method Blank 01-2010 MB	<1	<1	<1	<3	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005, F&BI 111130

Date Extracted: 11/11/11

Date Analyzed: 11/15/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS**

DIESEL AND MOTOR OIL

USING METHOD NWTPH-Dx

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
VMW-2-110711 111130-01	<50	<250	109
VMW-3-110711 111130-02	<50	<250	112
VMW-4-110711 111130-03	<50	<250	104
Method Blank 01-2058 MB	<50	<250	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005, F&BI 111130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 111117-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	87	72-122
Ethylbenzene	ug/L (ppb)	50	90	73-126
Xylenes	ug/L (ppb)	150	89	74-118
Gasoline	ug/L (ppb)	1,000	102	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Vehicle Maintenance Facility, PO No. 101.00418.00005, F&BI
111130

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	94	100	58-134	6

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.
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- 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.

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

SAMPLERS (signature) _____
 PROJECT NAME/NO. STEVENS PASS VEHICLE MAINTENANCE
101.00418.00005
 PO# 101.00418.00005
 REMARKS NWTPH-Ox FOR ORO & HO AFTER SILICA GEL CLEANUP

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		HFS
VMW-2-110711	01 A-D	11/7/11	1257	WATER	4	X	X	X				
VMW-3-110711	02 A-D		1354	↓	↓	X	X	X				
VMW-4-110711	03 A-D	↓	1424	↓	↓	X	X	X				

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

Relinquished by: _____
 Received by: Chris Lee
 Relinquished by: _____
 Received by: Nhan Phan

COMPANY: SLR
 PRINT NAME: Chris Lee
 DATE: 11/9/11
 TIME: 1344

COMPANY: FEBT
 PRINT NAME: _____
 DATE: 11/9/11
 TIME: 1344

Received by: _____
 Samples received at: _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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
e-mail: fbi@isomedia.com

November 17, 2011

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

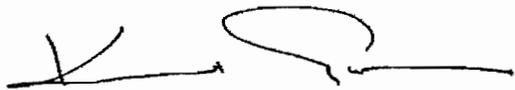
Dear Mr. Staton:

Included are the results from the testing of material submitted on November 9, 2011 from the Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 111129 project. There are 6 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.



Kurt Johnson
Chemist

Enclosures
SLR1117R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 9, 2011 by Friedman & Bruya, Inc. from the SLR International Corp. Stevens Pass Mini Mart Area, PO No. 101.00418.00005 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
111129 -01	SMW-1R-110711
111129 -02	SMW-2-110711
111129 -03	SMW-3-110711
111129 -04	SMW-4-110711
111129 -05	SMW-5-110711

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 111129

Date Extracted: 11/10/11

Date Analyzed: 11/10/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
SMW-1R-110711 111129-01	<1	<1	<1	<3	<100	97
SMW-2-110711 111129-02	<1	<1	<1	<3	<100	98
SMW-3-110711 111129-03	<1	<1	<1	<3	<100	96
SMW-4-110711 111129-04	<1	1.2	<1	<3	140	99
SMW-5-110711 111129-05	<1	<1	<1	<3	<100	99
Method Blank 01-2051 MB	<1	<1	<1	<3	<100	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 111129

Date Extracted: 11/11/11

Date Analyzed: 11/14/11 and 11/15/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
SMW-1R-110711 111129-01	<50	<250	105
SMW-2-110711 111129-02	<50	<250	108
SMW-3-110711 111129-03	<50	<250	114
SMW-4-110711 111129-04	140	<250	113
SMW-5-110711 111129-05	<50	<250	113
Method Blank 01-2058 MB	<50	<250	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 111129

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 111129-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	92	65-118
Toluene	ug/L (ppb)	50	87	72-122
Ethylbenzene	ug/L (ppb)	50	89	73-126
Xylenes	ug/L (ppb)	150	89	74-118
Gasoline	ug/L (ppb)	1,000	100	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/17/11

Date Received: 11/09/11

Project: Stevens Pass Mini Mart Area, PO No. 101.00418.00005, F&BI 111129

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	94	100	58-134	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

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

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

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

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

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

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

fb - Analyte present in the blank and the sample.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLERS (signature) _____
 PROJECT NAME/NO. STEVENS PASS MINI MART AREA 101.00418.00005
 PO# 101.00418.00005
 REMARKS NWTPH - Dx FOR DRO & HO AFTER SILICA GEL CLEANUP

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED					Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	
SMW-1R-110711	01 A-D	11/7/11	0830	WATER	4	X	X	X	X		
SMW-2-110711	02 A-D		0915			X	X	X	X		
SMW-3-110711	03 A-D		1048			X	X	X	X		
SMW-4-110711	04 A-D		1000			X	X	X	X		
SMW-5-110711	05 A-D		1138			X	X	X	X		

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

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	CHRIS LEE	SLR	11/9/11	1344
Received by: <u>M. Pham</u>	Nhan Pham	FEBI	11/9/11	1344
Relinquished by:		Samples received at	2	°C
Received by:				

APPENDIX C
UST CLOSURE FORMS



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

FOR OFFICE USE ONLY

Site ID #: _____
Facility Site ID #: _____

See back of form for instructions

Please the appropriate box(es)

- Temporary Tank Closure Change-In-Service Permanent Tank Closure Site Check/Site Assessment

Site Information

Owner Information

Site ID Number 67454228
(Available from Ecology if the tanks are registered)
Site/Business Name Stevens Pass Ski Area
Street
Site Address P.O. Box 98
City/State Skykomish, WA
Zip Code 98288 Telephone (206) 812-4570

UST Owner/Operator Stevens Pass Ski Area
Mailing Address P.O. Box 98
Street
P.O. Box
City/State Skykomish, WA
Zip Code 98288 Telephone (206) 812-4510

Owners Signature _____

Tank Closure/Change-In-Service Company

Service Company WYSER CONSTRUCTION CO INC XX4341061806
Certified Supervisor MIKE REDFORD Decommissioning Certification No. 0873126-02
Supervisor's Signature Mike Redford Date _____
Address 19015 109th AVE SE
Street
SKYKOMISH WA 98296 Telephone (425) 742-0828
City State Zip Code

Site Check/Site Assessor

Certified Site Assessor Chris Kramer, SCR International Corp
Address 1800 Blankenship Road, Suite 440
Street
West Linn Oregon 97068 Telephone (503) 723-4423
City State Zip Code

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
<u>2A</u>	<u>10/4/11</u>	<u>Removal</u>	<u>10,000</u>	<u>Diesel</u>
<u>2B</u>	<u>10/4/11</u>	<u>Removal</u>	<u>4,000</u>	<u>Unleaded Gasoline</u>

Contamination Present at the Time of Closure

Yes No Unknown
Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

 Yes No
If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
 Site #: _____
 Facility Site ID #: _____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
 Department of Ecology
 PO Box 47655
 Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 67454228
 Site/Business Name: Stevens Pass Ski Area
 Site Address: P.O. Box 98 Telephone: (206) 812-7352
Skykomish Street Washington 98288
 City State Zip Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1U</u>	<u>10,000 gallons</u>	<u>Diesel</u>
<u>2U</u>	<u>4,000 gallons</u>	<u>Unleaded gasoline</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

- Check one:
- Investigate suspected release due to on-site environmental contamination.
 - Investigate suspected release due to off-site environmental contamination.
 - Extend temporary closure of UST system for more than 12 months.
 - UST system undergoing change-in-service.
 - UST system permanently closed with tank removed.
 - Abandoned tank containing product.
 - Required by Ecology or delegated agency for UST system closed before 12/22/88.
 - Other (describe): Remediate hydrocarbon-impacted soil and groundwater near USTs

* Items initialed "Yes" in the checklist below are presented in SLR's Remedial Action Report for the Stevens Pass Ski Area.

CHECKLIST		
Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.	YES	NO
1. The location of the UST site is shown on a vicinity map.	MS	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	MS	
3. A summary of UST system data is provided. (see Section 3.1.)	MS	
4. The soils characteristics at the UST site are described. (see Section 5.2)	MS	
5. Is there any apparent groundwater in the tank excavation?	MS	
6. A brief description of the surrounding land use is provided. (see Section 3.1)	MS	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	MS	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	MS	
- groundwater samples distinguished from soil samples (if applicable)	MS	
- samples collected from stockpiled excavated soil		MS
- tank and piping locations and limits of excavation pit	MS	
- adjacent structures and streets	MS	
- approximate locations of any on-site and nearby utilities		MS
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		MS
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	MS	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	MS	
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.	MS	

SITE ASSESSOR INFORMATION		
<u>Mike Staton</u> Person registered with Ecology	<u>SLR International Corp</u> Firm Affiliated with	
Business Address: <u>22118 20th Ave SE, Suite G202</u> Telephone: <u>(425) 402-8800</u>		
<u>Bothell</u> City	<u>Washington</u> State	<u>98021</u> Zip Code
I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.		
<u>11/18/11</u> Date	<u>[Signature]</u> Signature of Person Registered with Ecology	

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.

APPENDIX D
MONITORING WELL LOGS



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

CLIENT Stevens Pass Ski Area PROJECT NAME Stevens Pass Ski Area
 PROJECT NUMBER 101.00418.00005 PROJECT LOCATION Skykomish, Washington
 DATE STARTED 10/26/11 COMPLETED 10/26/11 GROUND ELEVATION _____ HOLE SIZE N/A
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Excavation ∇ AT TIME OF DRILLING 5.0 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0								
				SP		SAND, light brown, fine- to medium-grained, few fine to coarse gravel, trace fines, damp, no odors or staining.		
						BOULDERS AND COBBLES, brown, few fine- to coarse-grained sand, moist, no odors or staining.		
5						∇ @ 5.0 feet: Becomes wet.		
10								
						BEDROCK, granodiorite, fractured.		

Excavation completed at 12.0 feet.

WELL COMPLETION DETAILS:

0.0 to 3.1 feet: 2"-diameter Sch. 40 PVC blank riser.
 3.1 to 11.7 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
 11.7 to 12.0 feet: 2"-diameter Sch. 40 PVC end cap.

0.0 to 1.0 foot: Concrete.
 1.0 to 2.5 feet: Hydrated bentonite chips.
 2.5 to 12.0 feet: 2x12 Monterrey silica sand.

REMARKS

PID = photoionization detector

∇ Water level at time of drilling.



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

CLIENT Stevens Pass Ski Area PROJECT NAME Stevens Pass Ski Area
 PROJECT NUMBER 101.00418.00005 PROJECT LOCATION Skykomish, Washington
 DATE STARTED 10/26/11 COMPLETED 10/26/11 GROUND ELEVATION _____ HOLE SIZE N/A
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Excavation ∇ AT TIME OF DRILLING 4.0 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							
5						<p>SAND, brown, fine- to coarse-grained, trace fines, moist to wet, no hydrocarbon-like odors or staining.</p> <p>∇ @ 4.0 feet: Becomes wet.</p>	<p>Concrete.</p> <p>Hydrated bentonite chips.</p> <p>2"-diameter Sch. 40 PVC blank riser.</p> <p>2x12 silica sand pack.</p> <p>2"-diameter Sch. 40 PVC 0.020"-slotted screen.</p> <p>2"-diameter Sch. 40 PVC end cap.</p>
10			SW				
14.0					@ 14.0 feet: Bedrock.		

WELL COMPLETION DETAILS:

0.0 to 3.4 feet: 2"-diameter Sch. 40 PVC blank riser.
 3.4 to 13.2 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
 13.2 to 13.5 feet: 2"-diameter Sch. 40 PVC end cap.

0.0 to 1.0 foot: Concrete.
 1.0 to 2.5 feet: Hydrated bentonite chips.
 2.5 to 14.0 feet: 2x12 Monterrey silica sand.

REMARKS

∇ Water level at time of drilling.

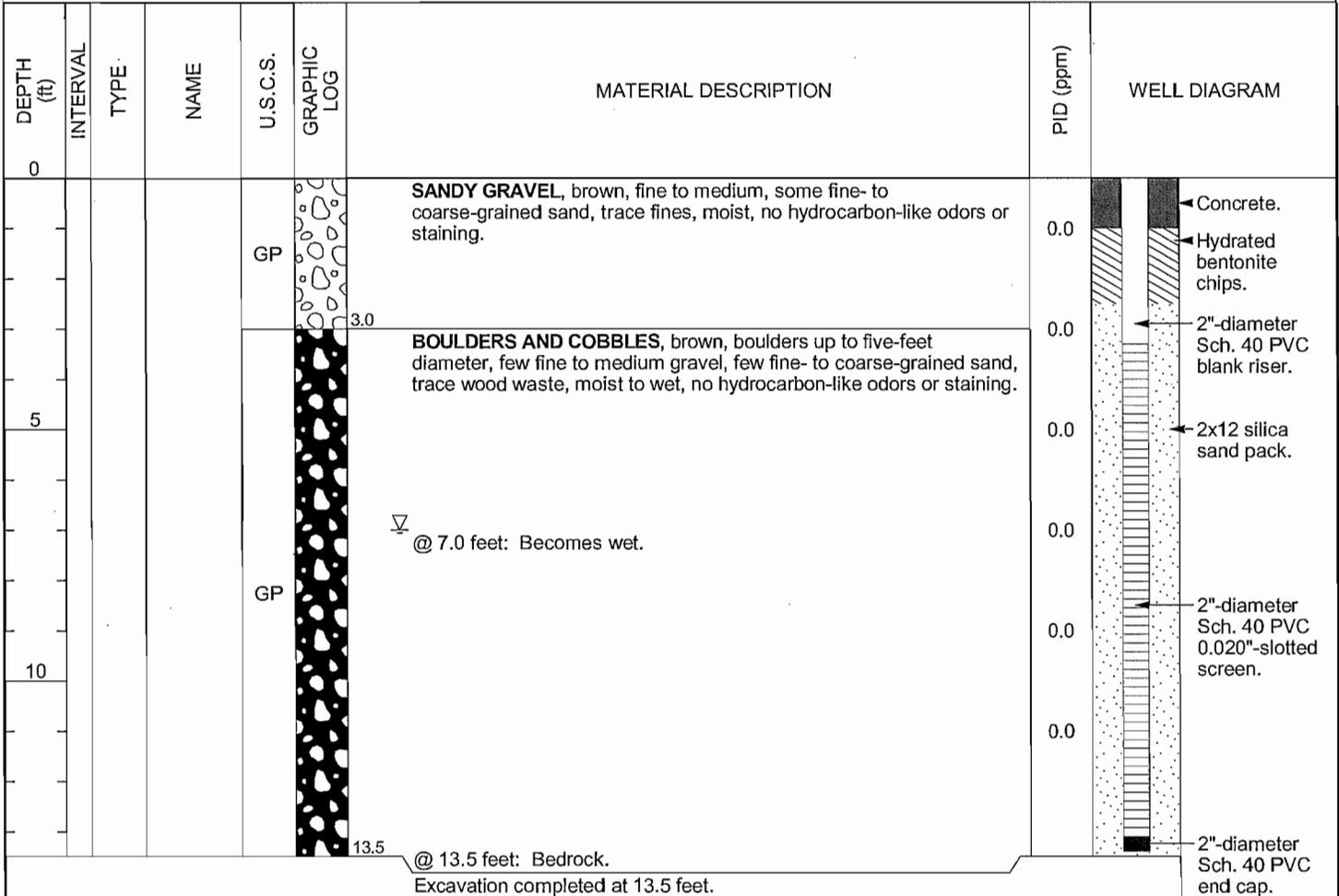
SLR MW LOG STEVENS PASS.GPJ GINT US.GDT 11/11/11



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

WELL NUMBER SMW-5

CLIENT Stevens Pass Ski Area PROJECT NAME Stevens Pass Ski Area
 PROJECT NUMBER 101.00418.00005 PROJECT LOCATION Skykomish, Washington
 DATE STARTED 10/26/11 COMPLETED 10/26/11 GROUND ELEVATION _____ HOLE SIZE N/A
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Excavation ∇ AT TIME OF DRILLING 7.0 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---



WELL COMPLETION DETAILS:

0.0 to 3.3 feet: 2"-diameter Sch. 40 PVC blank riser.
 3.3 to 13.1 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
 13.1 to 13.4 feet: 2"-diameter Sch. 40 PVC end cap.

0.0 to 1.0 foot: Concrete.
 1.0 to 2.5 feet: Hydrated bentonite chips.
 2.5 to 13.5 feet: 2x12 Monterrey silica sand.

REMARKS

PID = photoionization detector

∇ Water level at time of drilling.

SLR.MW LOG STEVENS PASS.GPJ_GINT US.GDT 11/11/11



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

WELL NUMBER VMW-4

CLIENT Stevens Pass Ski Area PROJECT NAME Stevens Pass Ski Area
 PROJECT NUMBER 101.00418.00005 PROJECT LOCATION Skykomish, Washington
 DATE STARTED 10/26/11 COMPLETED 10/26/11 GROUND ELEVATION _____ HOLE SIZE N/A
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Excavation ∇ AT TIME OF DRILLING 4.0 ft
 LOGGED BY C Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							
5						<p>SAND, brown, fine- to coarse-grained, trace fines, moist to wet, no hydrocarbon-like odors or staining.</p> <p>∇ @ 4.0 feet: Becomes wet.</p>	<p>Concrete.</p> <p>Hydrated bentonite chips.</p> <p>2"-diameter Sch. 40 PVC blank riser.</p> <p>2x12 silica sand pack.</p> <p>2"-diameter Sch. 40 PVC 0.020"-slotted screen.</p> <p>2"-diameter Sch. 40 PVC end cap.</p>
10			SW				
15							
16.0						@ 16.0 feet: Bedrock.	

WELL COMPLETION DETAILS:

0.0 to 5.4 feet: 2"-diameter Sch. 40 PVC blank riser.
 5.4 to 15.2 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
 15.2 to 15.5 feet: 2"-diameter Sch. 40 PVC end cap.

0.0 to 1.0 foot: Concrete.
 1.0 to 2.5 feet: Hydrated bentonite chips.
 2.5 to 16.0 feet: 2x12 Monterrey silica sand.

REMARKS

∇ Water level at time of drilling.