

Memorandum

To: Mohsen Kourehdar, Washington State Department of Ecology

Copies: Dan Silver, B&L Woodwaste Custodial Trust; Larry McGaughey, AMEC; and Teri Floyd, Floyd|Snider

From: Brett Beaulieu, Megan McCullough, and Erin Murray, Floyd|Snider

Date: May 21, 2014

Project No: B&L-O&M T. 1525

Re: Ditch Bank Remedial Action

In this memorandum, the decision by the Washington State Department of Ecology (Ecology) concerning the remedial approach for two areas of impacted soil at the B&L Woodwaste Site (Site) is documented, based on an evaluation of remedial actions.

The investigation, evaluation, and implementation of this remedial action are ongoing elements of site cleanup by the B&L Woodwaste Custodial Trust (Trust) under Consent Decree No. 082106107. The major construction phases of the cleanup have been completed. These included excavation of contaminated ditch sediment and agricultural field soil in 2012. The two areas of soil contamination that remain in place along the ditch banks were identified during the 2012 excavation and confirmation sampling. Ditch bank characterization sampling was completed in May and June 2013 to establish the extent of elevated arsenic in these two areas. Geoprobe groundwater samples were also collected in the vicinity of the South Ditch hotspot to assess whether contaminated soil in this area may be a source of elevated arsenic in groundwater. The results of the investigation were submitted to Ecology in a June 27, 2013 memorandum entitled *Ditch Bank Soil Investigation Results* (Floyd|Snider/AMEC 2013). Additional results from archived samples collected as part of ditch bank characterization are presented in this memorandum.

The evaluation of the environmental protectiveness, estimated costs, and other factors concerning potential remedial options presented here was prepared by the Trust to support decision-making by Ecology. Ecology has indicated that excavation of contaminated soil (Option A) is the appropriate remedial action for both the South Ditch and West Ditch bank areas. Additional details on the remedial action are provided below.

ANALYSIS OF ADDITIONAL ARCHIVED SAMPLES

To provide a clearer picture of the extent of soil contamination and aid in evaluating remedial approaches, archived samples collected during the investigation were submitted for analysis following submittal of the June 27, 2013 results memorandum. Twenty-three archived samples were submitted, including twenty from the South Ditch area (AV-4 7-8, AV-5 6-7, AV-5 7-8, AV-6 7-8, AV-7 6-7, AV-7 7-8, AV-10 7-8, AV-13 6-7, AV-13 7-8, AV-14 7-8, AV-15 6-7, AV-15 7-8,

AV-21 6-7, AV-23 6-7, AV-25 6-7, AV-26 6-7, AV-27 6-7, AV-27 7-8, AV-30 6-7, and AV-32 6-7) and three from the West Ditch area (WD-3 4-5, WD-7 4-5, and WD-14 4-5).

Results from these additional archived sample analyses are presented in Table 1 and shown on Figures 1 and 2. Laboratory analytical reports for all ditch bank investigation sampling are presented in Attachment 1.

Data Validation

A Compliance Screening, Tier I data quality review was performed on the arsenic data resulting from laboratory analysis. The analytical data for metals were validated in accordance with the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review (USEPA 1994 and 2004).

A total of 279 soil samples and 4 groundwater samples were submitted in three sample delivery groups (SDGs; 305440, 305469, and 306149) with 180 of the soil samples analyzed and the remainder temporarily archived. For all sample delivery groups, the analytical holding times were met, the method blanks had no detections, and the internal standard and laboratory control sample recoveries were within USEPA guidelines.

The matrix spike/matrix spike duplicate recoveries and relative percent difference (RPD) for Sample WD-9 2-3 from SDG 305469 were outside laboratory control limits. Therefore, the arsenic result for this sample has been qualified "J," indicating the value is an estimate. All other matrix spike/matrix spike duplicate recoveries and RPDs were within USEPA guidelines, providing adequate accuracy and precision for this analysis method by the laboratory.

Based on the data quality review, data are determined to be of acceptable quality for use as qualified.

SOUTH DITCH CONDITIONS

As discussed in the *Ditch Bank Soil Investigation Results Memorandum*, the elevated soil arsenic in the South Ditch area was delineated to be at least 150 feet in length along the ditch bank, extending into the Autumn Village Apartments (Apartments) property approximately 15 feet. The maximum concentrations were encountered approximately 5 feet away from the ditch bank. This area consists of landscaping with a thick row of mature evergreen trees that abuts an asphalt parking lot. Vertically, arsenic contamination extends to at least 8 feet below ground surface (bgs) in some locations.

During Geoprobe exploration, a dark-brown soil horizon ranging in depth from approximately 3 to 8 feet bgs was observed in many locations and is correlated with the elevated total arsenic concentrations observed in samples submitted for laboratory analysis (refer to boring logs in Attachment 2). Arsenic concentrations in this apparent woodwaste-containing layer and in underlying native soil ranged from 24 to 612 milligrams per kilogram (mg/kg) in the samples collected 5 feet from the edge of the ditch bank (Figure 1). Though the vertical extent was not delineated in all locations below the maximum boring depth of 8 feet bgs, arsenic concentrations decreased with depth beneath the woodwaste layer, and with distance from the bank. Concentrations of arsenic that exceed the site cleanup level (CUL) of 20 mg/kg were not observed more than 15 feet from the bank.

The horizontal extent of arsenic exceedances of the soil CUL parallel to the ditch bank has not been determined. The maximum arsenic concentrations at the eastern and western extents of the investigation area were 51.2 mg/kg and 205 mg/kg, respectively. Additional sampling prior to implementation of a remedial action may be conducted if necessary to confirm the contamination extent prior to initiation of a remedial action.

To evaluate the leaching potential of soil encountered in the South Ditch, the sample with the highest arsenic concentration measured during the 2013 investigation was submitted for Toxicity Characteristics Leaching Procedure (TCLP) analysis. The total arsenic concentration of the sample analyzed (AV-8 6-7) was 612 mg/kg. The resulting TCLP analysis was non-detect (less than a reporting limit of 1 milligram per liter [mg/L]). Based on this result, it is assumed that impacted material throughout the South Ditch would not be regulated under state dangerous waste regulations and can be disposed of in a Subtitle D landfill.

Groundwater was sampled from shallow depths in the Upper Sand Aquifer (USAq) from four Geoprobe locations (refer to Figure 1) during the 2013 characterization sampling. Dissolved arsenic concentrations ranged from 31.5 to 80.6 micrograms per liter ($\mu\text{g/L}$) at locations south of the ditch bank on the Apartments property; however, discrete-depth Geoprobe groundwater samples are not necessarily representative of groundwater conditions throughout the aquifer as monitored for compliance (Floyd|Snider/AMEC 2013). The highest concentration was found at AV-31, located just north and downgradient of the impacted South Ditch area. In most boring locations, groundwater was encountered between 4 and 6 feet bgs. Based on these data, it appears that the contaminated soil in the ditch bank may act as a source of arsenic contamination to groundwater in this area.

Site conditions limit the potential for direct exposure to contaminated soil. The arsenic-impacted area is located beneath trees, landscaping, or pavement, and surface soils do not contain elevated arsenic concentrations. Human contact with contaminated soils would potentially occur if digging or regrading activities were conducted in the impacted area. Therefore, the potential for human contact with contaminated subsurface soil is limited to utility and other site workers that may penetrate into the subsurface.

Prior searches indicate that there are no drinking water supply wells on the Apartments property (Floyd|Snider 2007). State regulations (Washington Administrative Code Chapter 173-160) prohibit new water wells within 1,000 feet of existing solid waste landfills and new water wells must be located outside of known sources of contamination. The Apartments reportedly operate a pump station(s) used to manage high groundwater levels. The recovered water is apparently discharged to the adjacent ditch system west (downgradient) of the contaminated ditch bank soils in the South Ditch. Project water level data, including measurements from monitoring wells at the Apartments property, indicate that this system does not exert substantial influence on the overall northwesterly groundwater flow direction in the area. Based on available information, therefore, there is no reason to expect the Apartments pumping system to recover arsenic-contaminated water or present an exposure risk. Therefore, the potential for human contact with contaminated groundwater is limited to utility and other site workers that may penetrate into the subsurface.

Surface water in the adjacent ditch is a potential pathway for human exposure and eventual recontamination of ditch sediments. Given the groundwater elevation and northwesterly direction of groundwater flow, shallow groundwater may discharge to the drainage ditch system along the perimeter of the B&L Landfill (Landfill) property. Based on groundwater arsenic

concentrations in the vicinity of the ditch bank, this could contribute to potential exceedances of the site surface water CUL of 5 µg/L. Contaminated groundwater discharging to the ditch system previously transferred arsenic contamination to ditch sediments adjacent to the Landfill. This raises the possibility of eventual recontamination of sediment in a section of the recently remediated ditches to concentrations greater than the site ditch sediment CUL of 20 mg/kg.

POTENTIAL REMEDIAL STRATEGIES—SOUTH DITCH

This section includes a preliminary screening of remedial options and an evaluation of benefits, constraints, and costs of implementing two remedial options in the South Ditch: A) soil excavation, and B) filling of a section of the ditch combined with long-term monitoring.

Preliminary Screening of Remedial Options

In addition to Options A and B, three approaches were considered as part of the initial screening: partial excavation, in-situ solidification/stabilization, and in-situ media-enhanced backfill treatment.

Evaluation of a partial or hotspot soil excavation alternative was considered but did not pass the screening stage because the cost savings associated with a limited excavation would not be substantial enough to justify the reduced environmental benefit of a partial removal action. This approach would result in disadvantages associated with full excavation without the full environmental benefit and would also result in disadvantages associated with leaving contamination in place. Partial excavation would cause substantial disruption to the Apartments property, including removal of mature trees, and would require a restrictive covenant and monitoring to address the source material left in place. The benefits and costs of full excavation and leaving contamination in place are described in more detail in the evaluations of Options A and B below.

In-situ solidification/stabilization (S/S) was also considered as a potential remedial strategy. This technology, which would leave contamination in place and treated to prevent leaching to groundwater, would require soil mixing or closely-spaced jet grouting. These activities would result in substantial disruption to the Apartments property similar to that caused by excavation, including removal of mature trees. Even if jet grouting could be implemented in between trees, the amended soil would no longer be suitable for trees. The S/S approach would produce displaced soil, which would require management and disposal. Similar to hotspot excavation, this alternative would be a disruptive, non-permanent solution, and would be expected to cost as much as excavation and disposal. The in-situ S/S approach was rejected based on this initial screening.

A third approach that was considered is the use of a treatment media such as zeolite as backfill in the ditch adjacent to the Apartments property. This approach, which shares characteristics with Option B, may enhance the capacity of the backfill material to slow the potential migration of arsenic away from the source material in very shallow groundwater. There is considerable uncertainty regarding the effectiveness of enhanced adsorption of arsenic at the shallow depths of the ditch backfill (above the current ground surface), relative to the depth of contaminated groundwater beneath the ditch (approximately 1 to 5 feet bgs) on protecting downgradient water quality. A similar benefit may be gained by retarding shallow water flow with soil. The approach may require a pilot treatability study to assess the effectiveness of the enhancement media. In

addition, the approach would involve disadvantages associated with leaving contamination in place, including the need for a restrictive covenant and monitoring. While natural zeolites are generally low-cost materials, the cost of iron-modified zeolite, the zeolite product that is used for arsenic remediation, is considerably greater and is estimated not to be commensurate with the potential benefits of this enhancement. Therefore, the media-enhanced backfill approach was rejected as a stand-alone option, based on the lack of additional environmental protectiveness relative to the anticipated costs and disadvantages.

The two remedial options to be considered are discussed below.

Option A: Excavation of Contaminated Soil

This option includes the removal of arsenic-contaminated soil from the South Ditch and installation of one or two groundwater monitoring wells downgradient of the excavation area for compliance monitoring. Groundwater monitoring integrated into existing Landfill monitoring would confirm the source to groundwater has been successfully removed.

The estimated cost for implementation of Option A is \$340,000. This cost includes \$236,000 for soil excavation and disposal, site restoration, and monitoring well installation; \$43,000 for contingent excavation and restoration beyond the known volume; and \$61,000 for engineering design, oversight, and agency communications.

No cost is included for groundwater monitoring in conjunction with regular Landfill compliance monitoring. Semiannual monitoring and reporting for two additional wells is expected to add less than \$2,000 per year to site monitoring costs. This cost is assumed to occur for both Option A and Option B.

Key Assumptions

Based on current data and cleanup objectives, the approximate extent of the excavation area would be approximately 4,550 square feet and is shown on Figure 1. The proposed excavation extent is not bounded vertically in all locations, or to the east or west, indicating the area of impact may be larger than the footprint shown in Figure 1. To the west, excavation is limited by an existing gate and buildings. While some excavation may be possible west of the gate, for purposes of this estimate it is assumed that these existing structures will not be removed to allow for soil excavation. To the east, excavation is assumed to extend approximately 8 feet east of the eastern-most boring location, AV-32, as shown on Figure 1. To the south, the assumed excavation extent has been set halfway between the southernmost contaminated boring location and the southernmost clean boring location from the 2013 characterization sampling.

Excavation would continue vertically until confirmation sampling results indicated that arsenic concentrations in the excavation base were less than the CUL. It is assumed that CULs would be achieved within 2 feet of the deepest sample location in borings where the vertical extent of contamination has not been confirmed, approximately 10 feet bgs. This assumes a total volume of 930 cubic yards (CY) of soil will be removed from the South Ditch bank, assuming the southern excavation sidewall is sloped for sidewall stability. As discussed above, the excavation extent includes a landscaped area with mature evergreen trees. It is estimated that 50 to 60 trees ranging from 4 inches to 12 inches in diameter would need to be removed prior to

excavation. The area would then be prepared for excavation by removing the surface layer of mulch in the landscaping area (for potential reuse), and removing the sidewalk located along the eastern excavation extent, parking areas, and potentially part of the Apartments driveway along the east of the excavation extent. Delineation results indicate that soil contamination is not present beneath the paved parking area; however, for excavation sidewall stability, sidewall cutbacks may extend into the paved parking area, requiring removal of asphalt and concrete curbing and pavement.

The excavation volume used in estimating remediation cost is limited to the known volume of contaminated soil. Given the unknowns regarding the volume of contaminated material, and the larger-than-expected volume of contaminated material encountered during ditch excavation in 2012, an additional contingent volume of 270 CY with associated site restoration has been added as a separate element in the cost estimate.

Before excavation, a survey would be conducted to document the ground surface elevation and identify the excavation extents. These survey data will be used as the baseline condition to verify depth and extent of excavation, and to calculate total volume of soil removed. The oversteepened ditch bank was stabilized with clean imported fill following ditch sediment removal activities in 2012, and a liner was placed separating the clean backfill from the impacted soils in the ditch bank. For this evaluation, it is assumed the imported material is removed and reconstructed following completion because it will not be stable enough to remain in place during excavation.

As described above, the groundwater depth in the vicinity of the excavation area is approximately 3 to 7 feet bgs. Because the depth of excavation will extend into groundwater, it is assumed that dewatering of the excavation area using sump pumps will be conducted, and excavated material may also require draining/dewatering prior to disposal. It is assumed that any water pumped from the excavation, or drained from excavated soil, would be transferred to the on-site groundwater treatment plant for processing.

Erosion controls in the South Ditch would be required during excavation to protect the ditch network from erosion and sediment transport during excavation. Temporary erosion and sediment controls would be implemented around the construction area to control run-on and run-off of stormwater into and from the construction area. Any stormwater collecting within the work area that does not infiltrate would be collected and managed as dewatering water or groundwater that has entered the ditches. The South Ditch will also be monitored for indications of turbidity, and sediment controls may be required if turbidity is observed in the ditch during construction.

Once the target excavation depth is achieved, confirmation soil samples would be collected from the excavation base and sidewalls at an approximate spacing of one sample every 25 feet. Alternatively, in locations where existing data have confirmed the extent of soil contamination, an elevation survey may be used to confirm the excavation depth has been achieved. Following confirmation that the excavation extent has been reached, the excavation area would be backfilled and compacted. Rock or quarry spall will be used to backfill the excavation below groundwater to allow for compaction and eliminate future settling. The ditch bank would require backfilling and stabilization with hydroseeding to prevent erosion of soil into the adjacent ditch. The remaining area would be re-landscaped, with transplant of semi-mature trees, and paved to restore any impacted parking spaces, curbs, and sidewalks returning the area to existing condition.

To confirm the source of arsenic to groundwater has been removed, one or two monitoring wells will be installed downgradient of the excavation extent on the landfill property in the vicinity of AV-31 (Figure 1) and potentially on the Apartments parcel. These wells will be integrated into the long-term groundwater monitoring program for the Landfill, sampled semiannually, and assessed for compliance as part of the cleanup.

Advantages

- 1. Source removal is the most permanent solution for all environmental media and eliminates potential exposure pathways affecting human health and the environment.** The primary advantage of excavation is removal of soil with arsenic concentrations greater than the CUL, which is an apparent source of groundwater contamination in the area. Remediation of arsenic in groundwater to 5 µg/L in this and other areas outside the Landfill perimeter, an element of the 2008 Cleanup Action Plan (CAP), may be impracticable without source removal. Removal of contaminated soil is anticipated to remove potential exposure pathways including contaminated soil, groundwater, ditch surface water, or ditch sediment in the area.
- 2. Achievement of CULs on adjacent property.** This option would result in remediation of soil on the property adjacent to the Landfill. Arsenic concentrations in groundwater would be expected to attain the CUL over time, following source removal. Potential future impacts to ditch surface water and sediment from the source material would be prevented. No restrictive covenant or other deed restriction would be needed.

Disadvantages

- 1. Cost would reduce funds available for implementation of the CAP remedy.** The cost associated with excavation, off-site disposal, and site restoration is estimated to be \$340,000. Selection of excavation would reduce funds available for long-term implementation of the CAP remedy for the Site. The effects of reduced funding are particularly relevant for the Site because the remedy relies on long-term groundwater gradient control and associated continual groundwater recovery, treatment, and monitoring. Use of cleanup funds to address issues that pose relatively low risk to human health or the environment reduce the availability of funds to operate and maintain the Landfill containment remedy in the future, which could have a much greater impact on human health and the environment.
- 2. Disruption to owner and Apartments property residents.** Excavation would require closure, and removal and restoration, of an area of the parking area adjacent to the ditch, and would likely restrict access to the Apartments property at the northernmost entrance during construction. Heavy construction noise, truck traffic, and machinery operation would also provide a disruption to Apartment residents.
- 3. Removal of trees.** Excavation would require removal of approximately 50 to 60 existing mature evergreen trees. These trees provide a buffer to the Apartment residents from the Landfill. Although trees would be replanted as part of excavation restoration, replanted trees would likely be 4 to 6 feet in height, and it would be many years before the new vegetation would reach the maturity of the existing growth.

Option B: Filling of South Ditch and Long-term Monitoring

This option assumes no further removal of contaminated soil and would address the area with the greatest potential for exposure to contaminated surface water through filling of the South Ditch in the vicinity of the Apartments complex, if necessary, and monitoring surface water and groundwater. One or two monitoring wells would be installed for long-term groundwater monitoring. Surface water in the portion of the ditch adjacent to the contaminated area would be monitored for arsenic concentration and elevation during the wet season prior to construction. If arsenic concentrations in surface water indicate a risk to human health and the environment, this area of the ditch would be filled with up to approximately 2 feet of clean fill (and potentially arsenic-adsorbent media) in order to prevent exposure to contaminated surface water. Filling would remove the surface water expression immediately adjacent to the contaminated groundwater plume beneath the Apartments. For shallow groundwater that discharges to the ditch, filling of the ditch would greatly slow the rate of transport and provide greater attenuation of arsenic concentrations in groundwater prior to discharge into the ditch network further downstream. This option would also include regular collection of a surface water sample from the ditch network downgradient of the South Ditch during long-term monitoring events.

A restrictive covenant would be prepared for the Apartments property where soil and groundwater concentrations exceed CULs to control contact with contaminated soil or groundwater. The restrictive covenant could be implemented so that source removal is required as part of future redevelopment or land use changes.

The estimated cost for implementation of Option B is \$72,000 to \$97,000. This cost includes \$12,000 for installation of two groundwater monitoring wells, \$15,000 to \$40,000 for filling of the ditch, \$12,000 for wetlands permitting, \$23,000 for data collection and engineering design, oversight, and agency involvement, and \$10,000 for revision of the existing draft restrictive covenant to address soil contamination.

No cost is included for groundwater and surface water monitoring in conjunction with regular Landfill compliance monitoring. Semiannual monitoring and reporting for two additional wells and one surface water sampling location is expected to add less than \$2,000 per year to site monitoring costs. This cost is assumed to occur for both Option A and Option B.

Key Assumptions

Surface water conditions in this portion of the ditch have not been documented since excavation of contaminated sediment and backfilling in 2012. In order to provide data that would be used to calculate the volume of soil needed to cover exposed surface water, this alternative assumes water levels and arsenic concentrations would be monitored during wet season conditions. Additionally, a detailed elevation survey of the South Ditch would be conducted to document the existing conditions in the area considered for filling of the ditch. This survey will assist with evaluation and determination of the fill depth, extent, and surface grading that will eliminate surface water in the area while maintaining drainage and groundwater flow conditions. It is assumed that, because it will continue to be lower in elevation than the Apartments property, this ditch section can be filled without materially affecting surface drainage from the Apartments property.

The drainage ditch system and associated wetlands are subject to permitting requirements for filling under the Clean Water Act. As shown in Figure 1, a portion of the adjacent ditch is within (or in close proximity to) a previously delineated wetland. It is assumed that the ditch filling would be limited to 0.1 acre total and could be accomplished under a nationwide permit (#38). The 0.1-acre area is estimated to fill the approximate extent of the affected area shown on Figure 3; if necessary, the western extent of the filled area could be reduced so that the filled area fits within 0.1 acre. If impacts to jurisdictional ditches and wetlands exceed 0.1 acre, wetland mitigation would be needed and substantial cost would be added to Option B. It may be possible to conduct the work under the 2012 Nationwide Permit #38 by modifying the existing permit. Costs associated with attaining a new Nationwide Permit #38 are included in the cost estimate for Option B.

As described above, the survey data will be used to calculate the total volume of soil needed to cover any exposed surface water adjacent to the apartment complex. For this estimate, it is assumed that between 6 inches and 2 feet of soil will be placed to eliminate the surface water depression in the South Ditch (Figure 3). This is approximately 200 to 500 tons of imported clean backfill and topsoil. The section of filled ditch would be sloped consistent with the current westerly surface drainage direction. To prevent erosion, the surface would be hydroseeded with a specified wetland seed mix consisting of native emergent species suitable for wetland conditions.

No cost is included in this cost estimate for soil amendment with treatment media. Use of amendment may be evaluated during the design and planning phases to determine if use would be beneficial for attenuation of groundwater. If that evaluation determines that an adsorbent or other treatment media would further retard arsenic transport without interfering with groundwater flow and without significant additional cost, Ecology may direct that it be added to the backfill.

With this alternative, arsenic-contaminated soil beneath the Apartment's property will be left in place, and one or two monitoring wells will be installed to monitor groundwater plume stability over time as part of existing long-term semiannual groundwater monitoring. It is assumed that one new well would be installed downgradient of the soil contamination area, in the vicinity of AV-31 (Figure 1), and one new well may be installed within the center of the soil source area on the Apartments property. Existing Monitoring Well GW-1 (Figure 1) may also be used for monitoring. Long-term groundwater monitoring and reporting would document trends in groundwater conditions and assess compliance.

Because arsenic would be left in place at concentrations greater than the CUL, this option would include a restrictive covenant for the Apartments property. This restrictive covenant would control potential future exposures to contaminated soil and groundwater by restricting ground-disturbing activities and groundwater extraction in the vicinity of the CUL exceedances in soil and groundwater.

Advantages

- 1. Limited disruption to owner and Apartments property residents.** Leaving contamination in place would limit disruption to the owner and residents. There would be no construction conducted on the Apartments property aside from monitoring well installation. Sampling personnel may access the Site on a periodic basis to collect groundwater samples.

- 2. Addresses potential exposure pathways affecting human health and the environment.** As described above, the current potential for human exposure to contaminated subsurface soil and/or groundwater is low because most of the area is covered by landscaping or paved with asphalt, and surface soil arsenic is less than CULs. Implementation of restrictive covenants would control potential future human contact with contaminated media. The potential for contact with contaminated surface water would be reduced through filling of the ditch, if necessary, in the area immediately adjacent to the Apartments where the greatest potential for contaminated surface water exists.
- 3. Monitoring approach is consistent with long-term monitoring to be conducted for the Landfill in perpetuity.** As part of the implemented remedy for the Landfill, long-term groundwater monitoring will be conducted in perpetuity. This alternative includes the addition of approximately two monitoring wells to the groundwater monitoring plan and a surface water sample in the ditch network. The cost associated with the addition of these samples is relatively low because they will be part of an existing monitoring program.
- 4. Increases groundwater flow path distance, allowing for increased attenuation.** Modifying the topography of the ditch network, and relocating the point where groundwater discharges to the ditches will slow the transport of arsenic and is expected to allow for more arsenic attenuation in groundwater. This may reduce arsenic concentrations in groundwater at the point of discharge to the ditch, reducing the degree of exposure risk associated with direct contact with contaminated surface water and slowing the rate of potential ditch recontamination.

Disadvantages

- 1. Placement of restrictive covenant on adjacent property.** The placement of a restrictive covenant on the Apartments property may reduce the potential options of the owner for future development and ground-disturbing activities on the property, and may affect the property value.
- 2. Potential over long-term for contaminated surface water to be a route of exposure for human and ecological receptors.** Despite a blocked surface water exposure pathway adjacent to the soil contamination, and greater arsenic attenuation along longer groundwater flowpaths, groundwater would still discharge to surface water further downgradient in the ditch network. There would remain a potential for surface water in the ditches to present an exposure route to human and ecological receptors contacting surface water in the ditch network.
- 3. Potential long-term recontamination of ditch sediments.** Because groundwater would discharge to the ditch system downgradient of the soil contamination area, the potential exists for contaminated groundwater to reach the ditch network. Over time this groundwater could contribute to recontamination of ditch sediments that were remediated in 2012 as part of Phase 2 Part 2 of the 2008 CAP implementation.

WEST DITCH CONDITIONS

As discussed in the *Ditch Bank Soil Investigation Results Memorandum*, the hotspot in the West Ditch was delineated to be at least 120 feet in length along the ditch bank, extending into the agricultural field approximately 10 feet, with the maximum concentrations observed in samples collected 5 feet from the ditch bank. Vertically, arsenic contamination extends to 4 feet bgs in some locations.

On the northern and southern extents of the West Ditch investigation, the contamination was not delineated to concentrations less than the CUL. The concentration pattern suggests decreasing arsenic concentrations in these areas, and it is assumed that arsenic contamination is not likely to extend more than 15 feet beyond the boring locations shown in Figure 2.

The depth to groundwater ranged from 3 to 4 feet bgs during Geoprobe advancement in this area (refer to boring logs in Attachment 2). Contaminated groundwater in the vicinity is associated with the Agricultural Field Plume that is being remediated under the 2008 CAP. The primary source of the contamination is the now-contained Landfill; therefore, groundwater was not sampled during investigation activities. The elevated soil arsenic concentrations may contribute to elevated groundwater and ditch surface water arsenic concentrations, and recontamination of the recently remediated ditch sediments.

The potential for human contact with shallow contaminated soil exists for agricultural and other workers. The area is not currently cultivated and is not part of the area leased by the property owner, the Washington State Department of Transportation (WSDOT), for farming. The future use of this area is expected to include site regrading and conversion to wetlands as part of the State Route-167 project.

POTENTIAL REMEDIAL STRATEGIES—WEST DITCH

Option A: Excavation of Contaminated Soil

This option includes the removal of approximately 450 tons of contaminated material from the West Ditch. The estimated cost for implementation of Option A is \$69,000. This cost includes \$55,000 for soil excavation and disposal and \$14,000 for engineering design, oversight, and agency involvement.

Key Assumptions

Based on current data and cleanup objectives, the approximate extent of the excavation area would be approximately 2,975 square feet and is shown on Figure 2. The proposed excavation extent is not bounded to the north or south indicating the area of impact may be larger than the footprint shown in Figure 2. For the purposes of the cost assumption, excavation is assumed to extend approximately 15 feet past the northernmost and southernmost locations for a total of 150 feet along the ditch bank. The proposed extent will extend 8 feet past the transect located 10 feet west of the bank, for a total of 18 feet from the ditch bank. Vertically, the proposed excavation will extend to a minimum of 2 feet and a maximum of 4 feet, as shown in Figure 2.

Excavation would continue vertically until confirmation sampling indicated that arsenic concentrations in the excavation base were less than the CUL. This assumes a total soil volume of 320 CY, or 450 tons, of soil will be removed from the West Ditch bank.

Because the area is an agricultural field and no site structures exist, surface preparation activities would be minimal. Before excavation, a survey would be conducted to document the ground surface elevation and identify the excavation extents. These survey data will be used as the baseline condition to verify depth and extent of excavation, and to calculate total volume of soil removed.

As described above, the groundwater depth in the vicinity of the excavation area is approximately 3 to 4 feet bgs. Because the depth of excavation will extend into groundwater, dewatering of the excavation area using sump pumps is assumed, and excavated material may also require draining/dewatering prior to disposal. It is assumed that any water pumped from the excavation, or drained from excavated soil would be transferred to the on-site groundwater treatment plant for processing.

Excavation would extend from the current ditch bank into the agricultural field. Sedimentation controls in the ditch network would be required to ensure turbidity and sedimentation in the ditch do not exceed surface water quality standards. Temporary erosion and sediment controls will be implemented around the construction area to control run-on and run-off of stormwater into and from the construction area. Any stormwater collecting within the work area that does not infiltrate will be collected and managed as dewatering water or groundwater that has entered the ditches.

During Phase 2 Part 2 construction activities, logs and tree limbs were encountered during ditch bank sediment removal in the vicinity of the West Ditch hotspot area. The buried wood generally ranged in size from 1 to 4 feet in length and up to 8 inches in diameter. Excavated wood would be disposed of with the excavated soil.

Once the target excavation depth is achieved, confirmation soil samples will be collected from the excavation base and sidewalls at an approximate spacing of one sample every 25 feet. Alternatively, in locations where existing data have confirmed the extent of soil contamination, an elevation survey may be used to confirm the excavation depth has been achieved. Following confirmation that the excavation extent has been reached, the excavation area would be backfilled and compacted. Rock or quarry spall will be used to backfill the excavation below groundwater to allow for compaction, and eliminate future settling. The ditch bank would require backfilling and stabilization with hydroseeding to prevent erosion of soil into the adjacent ditch. A layer of topsoil would be placed on top to be consistent with the surrounding agricultural field ground surface.

Advantages

- 1. Source removal.** The primary advantage of excavation is removal of soil with arsenic concentrations greater than the CUL, which is likely a contributing source of groundwater contamination in the area. Removal of contaminated soil is anticipated to address potential exposure routes to contaminated soil, groundwater, or ditch surface water in the area.

2. **Unencumbered future use of the Site.** Because future use of this area is anticipated to include site regrading and construction of wetlands, attainment of CULs would allow for unrestricted future site redevelopment activities by the property owner.

Disadvantages

1. **Cost would reduce funds available for implementation of the CAP remedy.** The cost associated with an excavation alternative, off-site disposal, and site restoration is estimated to be \$69,000. Selection of excavation reduces funds available for long-term implementation of the CAP remedy for the Site.

Option B: Restrictive Covenant for Soil Contamination

This option assumes no removal of contaminated soil. The draft restrictive covenant for the agricultural field property under review by WSDOT would likely be modified to address soil exceedances of CULs to control contact with contaminated soil. This draft restrictive covenant already addresses contaminated groundwater and remediation equipment on the property.

The estimated cost for implementation of Option B is shown below, followed by discussion of the key assumptions and considerations used in evaluation of the no action option.

The estimated cost for Option B is \$20,000. This cost includes development of restrictive covenants and agency involvement.

Key Assumptions

With this alternative, arsenic-contaminated soil is left in place with no further action on the property. Because arsenic would be left in place at concentrations greater than the CUL, this option would require long-term or permanent restrictive covenants to be placed on the property instead of the temporary restrictive covenant under review by WSDOT for groundwater remediation. This restrictive covenant would control potential future exposures to contaminated soil and groundwater by restricting ground-disturbing activities and groundwater extraction in the vicinity of the CUL exceedances in soil and groundwater. These covenants serve as a mechanism to protect human health from contact with contaminated soil and groundwater.

Advantages

1. **Short-term cost savings.** The primary advantage of no action on the property would be cost savings relative to full excavation.

Disadvantages

1. **Exceed CUL in area planned for redevelopment.** Leaving contamination in place would not appear to be consistent with the property owner's future plans for the property. WSDOT, the current property owner, is planning to convert this land into a riparian wetland mitigation area. The no excavation option would leave in place

contaminated soil and establish long-term restrictive covenant provisions that may impact WSDOT's ability to implement their planned future site use.

- 2. Potential source to groundwater and long-term recontamination of ditch surface water and sediments.** Leaving contaminated soil in place, though of relatively low magnitude, risks continued leaching of arsenic to groundwater that may interfere with the 2008 CAP goal of remediating arsenic in groundwater to attain the CUL. As stated above, because the agricultural ditches likely receive groundwater from this area, the potential exists for contaminated groundwater to reach the ditch network. Over time this groundwater could contribute to recontamination of ditch sediments remediated in 2012.

NEXT STEPS

Ecology's selection of Option A for both the South Ditch and West Ditch will allow the Trust to begin preparations for implementing the remedial action. Next steps will include coordination with the affected property owners, and preparation of plans and specifications.

REFERENCES

Floyd|Snider/AMEC. 2013. Unpublished Memorandum from Brett Beaulieu and Erin Murray, Floyd|Snider to Dom Reale of the Washington State Department of Ecology Re: Ditch Bank Soil Investigation Results. 27 June.

Floyd|Snider. 2007. B&L Landfill Groundwater Alternatives Evaluation, Ecology Preliminary Review Draft. Prepared for Murray Pacific Corporation. January.

U.S. Environmental Protection Agency (USEPA). 1994. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. 9240.1-05-01, PB 94-963502, EPA 540/R-94/013. Office of Emergency and Remedial Response, Washington, D.C. February.

———. 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. OSWER 9240.1-45, EPA 540-R-04-004. Office of Superfund Remediation and Technology Innovation (OSRTI), Washington, D.C. July.

Encl.: Table 1—Arsenic Results in Soil and Groundwater
Figure 1—Extent of South Ditch Excavation Option
Figure 2—Extent of West Ditch Excavation Option
Figure 3—Extent of South Ditch Fill Option
Attachment 1—Analytical Laboratory Reports
Attachment 2—Boring Logs

Table

Table 1
Arsenic Results in Soil and Groundwater

Location	Sample ID	Sample Date	Top Depth (feet)	Bottom Depth (feet)	Arsenic Concentration (mg/kg)
Soil					
South Ditch					
AV-1	AV-1 2-3	5/22/2013	2	3	7.33
	AV-1 5-6	5/22/2013	5	6	18.9
AV-2	AV-2 2-3	5/22/2013	2	3	5.95
	AV-2 5-6	5/22/2013	5	6	205
	AV-2 6-7	5/22/2013	6	7	71.7
	AV-2 7-8	5/22/2013	7	8	8.82
AV-3	AV-3 2-3	5/22/2013	2	3	15.2
	AV-3 3-4	5/22/2013	3	4	69.5
	AV-3 5-6	5/22/2013	5	6	37.2
	AV-3 6-7	5/22/2013	6	7	11.2
AV-4	AV-4 7-8	5/22/2013	7	8	7.88
	AV-4 2-3	5/22/2013	2	3	11.5
	AV-4 5-6	5/22/2013	5	6	159
	AV-4 6-7	5/22/2013	6	7	37.8
AV-5	AV-4 7-8	5/22/2013	7	8	8.41
	AV-5 2-3	5/22/2013	2	3	16.4
	AV-5 3-4	5/22/2013	3	4	149
	AV-5 5-6	5/22/2013	5	6	103
AV-6	AV-5 6-7	5/22/2013	6	7	109
	AV-5 7-8	5/22/2013	7	8	16.8
	AV-6 2-3	5/22/2013	2	3	7.15
	AV-6 5-6	5/22/2013	5	6	35.3
AV-7	AV-6 6-7	5/22/2013	6	7	559
	AV-6 7-8	5/22/2013	7	8	52.8
	AV-7 2-3	5/22/2013	2	3	13.5
AV-8	AV-7 3-4	5/22/2013	3	4	12.1
	AV-7 5-6	5/22/2013	5	6	222
	AV-7 6-7	5/22/2013	6	7	278
	AV-7 7-8	5/22/2013	7	8	36.3
AV-9	AV-8 2-3	5/22/2013	2	3	9.55
	AV-8 5-6	5/22/2013	5	6	204
	AV-8 6-7	5/22/2013	6	7	612
	AV-8 7-8	5/22/2013	7	8	265
AV-10	AV-9 2-3	5/22/2013	2	3	3.18
	AV-9 2-3 DUP	5/22/2013	2	3	2.04
	AV-9 5-6	5/22/2013	5	6	1.37
AV-11	AV-10 2-3	5/22/2013	2	3	13.8
	AV-10 5-6	5/22/2013	5	6	25.6
	AV-10 5-6 DUP	5/22/2013	5	6	310
	AV-10 6-7	5/22/2013	6	7	340
AV-12	AV-10 7-8	5/22/2013	7	8	20.5
	AV-11 2-3	5/22/2013	2	3	17.8
AV-13	AV-11 5-6	5/22/2013	5	6	5.09
	AV-12 2-3	5/22/2013	2	3	12.9
	AV-12 5-6	5/22/2013	5	6	206
AV-14	AV-12 6-7	5/22/2013	6	7	458
	AV-12 7-8	5/22/2013	7	8	92.2
	AV-13 2-3	5/22/2013	2	3	13.8
	AV-13 3-4	5/22/2013	3	4	68.2
AV-15	AV-13 5-6	5/22/2013	5	6	233
	AV-13 6-7	5/22/2013	6	7	62.6
	AV-13 7-8	5/22/2013	7	8	18.8
	AV-14 2-3	5/22/2013	2	3	18.1
AV-16	AV-14 5-6	5/22/2013	5	6	29.8
	AV-14 6-7	5/22/2013	6	7	447
	AV-14 7-8	5/22/2013	7	8	99
	AV-15 2-3	5/22/2013	2	3	16.2
AV-17	AV-15 3-4	5/22/2013	3	4	20.9
	AV-15 5-6	5/22/2013	5	6	59.5
	AV-15 6-7	5/22/2013	6	7	33.1
	AV-15 7-8	5/22/2013	7	8	294
AV-18	AV-16 2-3	5/22/2013	2	3	16.9
	AV-16 5-6	5/22/2013	5	6	88.8
	AV-16 6-7	5/22/2013	6	7	340
	AV-16 7-8	5/22/2013	7	8	144
AV-19	AV-17 3-4	6/7/2013	3	4	1.46
	AV-17 5-6	6/7/2013	5	6	12
AV-20	AV-18 3-4	6/7/2013	3	4	1.93
	AV-18 5-6	6/7/2013	5	6	2.35
AV-21	AV-19 3-4	6/7/2013	3	4	1.88
	AV-19 5-6	6/7/2013	5	6	15.9
	AV-19 5-6 DUP	6/7/2013	5	6	13.1
AV-22	AV-20 3-4	6/7/2013	3	4	1.53
	AV-20 3-4 DUP	6/7/2013	3	4	1.84
	AV-20 5-6	6/7/2013	5	6	15.3
AV-23	AV-21 3-4	6/7/2013	3	4	67.8
	AV-21 5-6	6/7/2013	5	6	107
	AV-21 6-7	6/7/2013	6	7	36
	AV-21 7-8	6/7/2013	7	8	6.75
AV-24	AV-22 3-4	6/7/2013	3	4	1.91
	AV-22 5-6	6/7/2013	5	6	2.63

Table 1
Arsenic Results in Soil and Groundwater

Location	Sample ID	Sample Date	Top Depth (feet)	Bottom Depth (feet)	Arsenic Concentration (mg/kg)
Soil (continued)					
South Ditch (continued)					
AV-23	AV-23 3-4	6/7/2013	3	4	32
	AV-23 5-6	6/7/2013	5	6	105
	AV-23 5-6 DUP	6/7/2013	5	6	110
	AV-23 6-7	6/7/2013	6	7	49.3
	AV-23 7-8	6/7/2013	7	8	5.61
AV-24	AV-24 3-4	6/7/2013	3	4	1.84
	AV-24 5-6	6/7/2013	5	6	2.77
AV-25	AV-25 3-4	6/7/2013	3	4	17.7
	AV-25 3-4 DUP	6/7/2013	3	4	17.8
	AV-25 5-6	6/7/2013	5	6	426
	AV-25 6-7	6/7/2013	6	7	34.7
	AV-25 7-8	6/7/2013	7	8	7.09
AV-26	AV-26 3-4	6/7/2013	3	4	54.8
	AV-26 3-4 DUP	6/7/2013	3	4	51.2
	AV-26 5-6	6/7/2013	5	6	509
	AV-26 6-7	6/7/2013	6	7	303
	AV-26 7-8	6/7/2013	7	8	11.5
AV-27	AV-27 3-4	6/7/2013	3	4	11
	AV-27 5-6	6/7/2013	5	6	80.7
	AV-27 6-7	6/7/2013	6	7	34.7
	AV-27 7-8	6/7/2013	7	8	80.9
AV-28	AV-28 3-4	6/10/2013	3	4	1.46
	AV-28 5-6	6/10/2013	5	6	2.65
AV-29	AV-29 3-4	6/10/2013	3	4	1.7
	AV-29 5-6	6/10/2013	5	6	2.52
AV-30	AV-30 3-4	6/10/2013	3	4	23.1
	AV-30 5-6	6/10/2013	5	6	50.2
	AV-30 5-6 DUP	6/10/2013	5	6	57.7
	AV-30 6-7	6/10/2013	6	7	74
	AV-30 7-8	6/10/2013	7	8	11.8
AV-32	AV-32 3-4	6/10/2013	3	4	17.3
	AV-32 3-4 DUP	6/10/2013	3	4	23.5
	AV-32 5-6	6/10/2013	5	6	51.2
	AV-32 6-7	6/10/2013	6	7	28.4
	AV-32 7-8	6/10/2013	7	8	14.1
West Ditch					
WD-1	WD-1 1-2	5/23/2013	1	2	23.8
	WD-1 2-3	5/23/2013	2	3	18.3
	WD-1 3-4	5/23/2013	3	4	3.73
	WD-1 3-4 DUP	5/23/2013	3	4	5.62
WD-2	WD-2 1-2	5/23/2013	1	2	29.5
	WD-2 2-3	5/23/2013	2	3	20
	WD-2 2-3 DUP	5/23/2013	2	3	42.1
	WD-2 3-4	5/23/2013	3	4	5.18
WD-3	WD-3 1-2	5/23/2013	1	2	28.1
	WD-3 2-3	5/23/2013	2	3	46.5
	WD-3 3-4	5/23/2013	3	4	45.1
	WD-3 4-5	5/23/2013	4	5	4.84
WD-4	WD-4 1-2	5/23/2013	1	2	26.4
	WD-4 2-3	5/23/2013	2	3	31.6
	WD-4 3-4	5/23/2013	3	4	6
WD-5	WD-5 1-2	5/23/2013	1	2	30.1
	WD-5 1-2 DUP	5/23/2013	1	2	47.8
	WD-5 2-3	5/23/2013	2	3	103
	WD-5 3-4	5/23/2013	3	4	14.7
WD-6	WD-6 1-2	5/23/2013	1	2	27.4
	WD-6 2-3	5/23/2013	2	3	43
	WD-6 3-4	5/23/2013	3	4	9.58
	WD-6 3-4 DUP	5/23/2013	3	4	12.4
WD-7	WD-7 1-2	5/23/2013	1	2	45.4
	WD-7 2-3	5/23/2013	2	3	76.6
	WD-7 3-4	5/23/2013	3	4	44.9
	WD-7 4-5	5/23/2013	4	5	5
WD-8	WD-8 1-2	5/23/2013	1	2	31.8
	WD-8 1-2 DUP	5/23/2013	1	2	23.9
	WD-8 2-3	5/23/2013	2	3	27.9
	WD-8 3-4	5/23/2013	3	4	12.3
WD-9	WD-9 1-2	5/23/2013	1	2	67.7
	WD-9 2-3	5/23/2013	2	3	23.3 J
	WD-9 3-4	5/23/2013	3	4	8.47
WD-10	WD-10 1-2	5/23/2013	1	2	29.1
	WD-10 2-3	5/23/2013	2	3	10.3
	WD-10 3-4	5/23/2013	3	4	5.59
WD-11	WD-11 1-2	5/23/2013	1	2	30.8
	WD-11 2-3	5/23/2013	2	3	54
	WD-11 3-4	5/23/2013	3	4	8.21
WD-12	WD-12 1-2	5/23/2013	1	2	20.6
	WD-12 2-3	5/23/2013	2	3	24.1
	WD-12 3-4	5/23/2013	3	4	9.91
WD-13	WD-13 1-2	5/23/2013	1	2	41.1
	WD-13 2-3	5/23/2013	2	3	46
	WD-13 3-4	5/23/2013	3	4	13.7

Table 1
Arsenic Results in Soil and Groundwater

Location	Sample ID	Sample Date	Top Depth (feet)	Bottom Depth (feet)	Arsenic Concentration (mg/kg)
Soil					
West Ditch					
WD-14	WD-14 1-2	5/23/2013	1	2	26.6
	WD-14 2-3	5/23/2013	2	3	23.6
	WD-14 3-4	5/23/2013	3	4	21.7
	WD-14 4-5	5/23/2013	4	5	7.34
WD-15	WD-15 1-2	6/10/2013	1	2	30.2
	WD-15 2-3	6/10/2013	2	3	12.9
	WD-15 2-3 DUP	6/10/2013	2	3	29.4
	WD-15 3-4	6/10/2013	3	4	5.42
WD-16	WD-16 1-2	6/10/2013	1	2	52.7
	WD-16 2-3	6/10/2013	2	3	7.61
	WD-16 3-4	6/10/2013	3	4	2.63
WD-17	WD-17 1-2	6/10/2013	1	2	56.1
	WD-17 2-3	6/10/2013	2	3	7.49
	WD-17 3-4	6/10/2013	3	4	4.81
WD-18	WD-18 1-2	6/10/2013	1	2	23
	WD-18 2-3	6/10/2013	2	3	5.6
	WD-18 3-4	6/10/2013	3	4	2.45
	WD-18 3-4 DUP	6/10/2013	3	4	2.45
Groundwater					
South Ditch					
AV-2	AV-2-GW (6-10)	6/7/2013	6	10	80.6
AV-13	AV-13-GW (7-11)	6/7/2013	7	11	31.5
AV-19	AV-19-GW (4-8)	6/7/2013	4	8	72.4
AV-31	AV-31-GW (1-5)	6/10/2013	1	5	141

Note:

Bold Indicates concentration is greater than the cleanup level of 20 mg/kg for soil and 5 µg/L for groundwater.

Abbreviations:

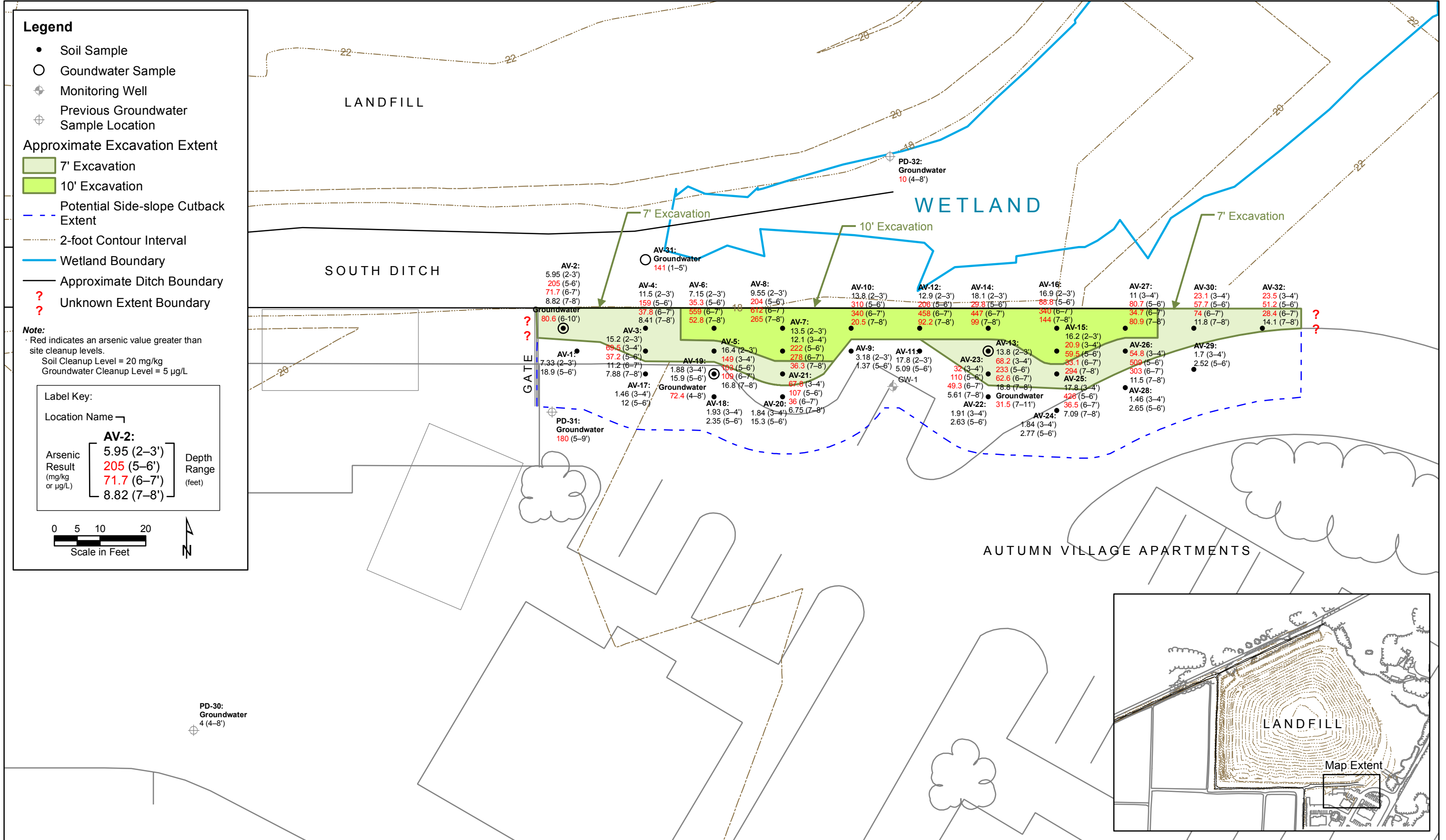
µg/L Micrograms per liter

mg/kg Milligrams per kilogram

Qualifier:

J Analyte was detected; given concentration is considered an estimate.

Figures



Legend

- Soil Sample
- 2-foot Contour Interval
- 2' Excavation
- 3' Excavation
- 4' Excavation

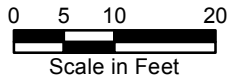
Note:

• Red indicates an arsenic value greater than site cleanup level.
Soil Cleanup Level = 20 mg/kg

Label Key:

Location Name ↵

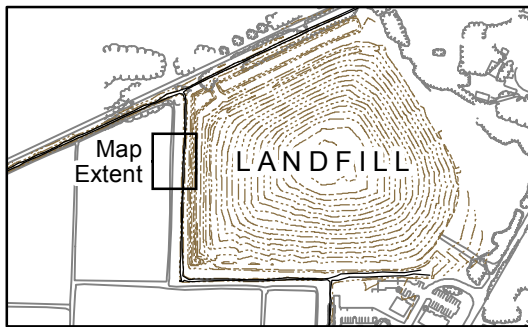
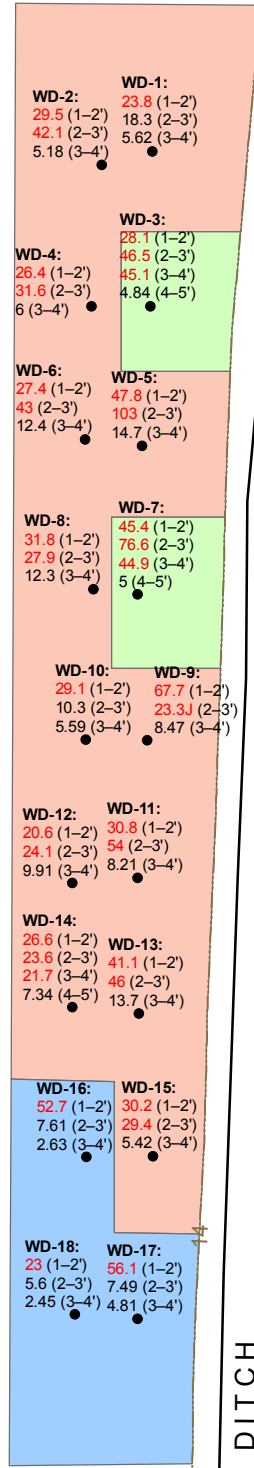
Arsenic Result (mg/kg)	WD-2:	Depth Range (feet)
	29.5 (1-2')	
	42.1 (2-3')	
	5.18 (3-4')	

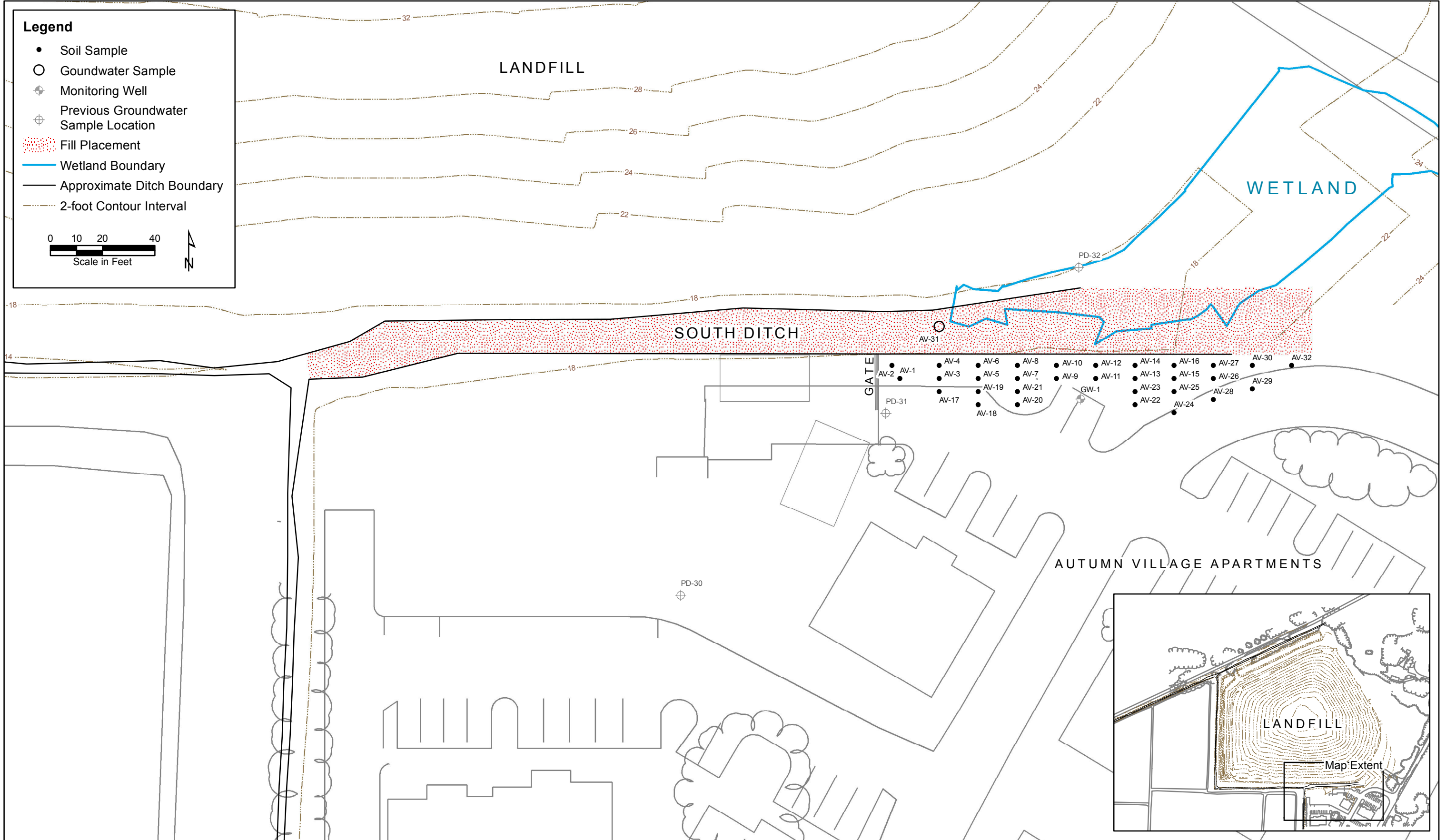


AGRICULTURAL FIELD

LANDFILL

WEST DITCH





Legend

- Soil Sample
- Groundwater Sample
- ⊕ Monitoring Well
- ⊕ Previous Groundwater Sample Location
- ▨ Fill Placement
- Wetland Boundary
- Approximate Ditch Boundary
- - - 2-foot Contour Interval

0 10 20 40
Scale in Feet

N

H:\GIS\Projects\B&L-O&MMXD\Remedial Action Memorandum\Figure 3 (Extent of South Ditch Fill).mxd
5/20/2014

Attachment 1
Analytical Laboratory Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
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June 6, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square
601 Union St, Suite 600
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the results from the testing of material submitted on May 22, 2013 from the B+L O+M 1525, F&BI 305440 project. There are 42 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
FDS0606R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 22, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M 1525, F&BI 305440 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -01	AV-1 1-2
305440 -02	AV-1 2-3
305440 -03	AV-1 3-4
305440 -04	AV-1 4-5
305440 -05	AV-1 5-6
305440 -06	AV-1 6-7
305440 -07	AV-1 7-8
305440 -08	AV-2 1-2
305440 -09	AV-2 2-3
305440 -10	AV-2 3-4
305440 -11	AV-2 4-5
305440 -12	AV-2 5-6
305440 -13	AV-2 6-7
305440 -14	AV-2 7-8
305440 -15	AV-3 1-2
305440 -16	AV-3 2-3
305440 -17	AV-3 3-4
305440 -18	AV-3 4-5
305440 -19	AV-3 5-6
305440 -20	AV-3 6-7
305440 -21	AV-3 7-8
305440 -22	AV-4 1-2
305440 -23	AV-4 2-3
305440 -24	AV-4 3-4
305440 -25	AV-4 4-5
305440 -26	AV-4 5-6
305440 -27	AV-4 6-7
305440 -28	AV-4 7-8
305440 -29	AV-5 1-2
305440 -30	AV-5 2-3
305440 -31	AV-5 3-4
305440 -32	AV-5 4-5
305440 -33	AV-5 5-6
305440 -34	AV-5 6-7
305440 -35	AV-5 7-8
305440 -36	AV-6 1-2
305440 -37	AV-6 2-3
305440 -38	AV-6 3-4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -39	AV-6 4-5
305440 -40	AV-6 5-6
305440 -41	AV-6 6-7
305440 -42	AV-6 7-8
305440 -43	AV-7 1-2
305440 -44	AV-7 2-3
305440 -45	AV-7 3-4
305440 -46	AV-7 4-5
305440 -47	AV-7 5-6
305440 -48	AV-7 6-7
305440 -49	AV-7 7-8
305440 -50	AV-8 1-2
305440 -51	AV-8 2-3
305440 -52	AV-8 3-4
305440 -53	AV-8 4-5
305440 -54	AV-8 5-6
305440 -55	AV-8 6-7
305440 -56	AV-8 7-8
305440 -57	AV-9 1-2
305440 -58	AV-9 2-3
305440 -59	AV-9 2-3 Duplicate
305440 -60	AV-9 3-4
305440 -61	AV-9 4-5
305440 -62	AV-9 5-6
305440 -63	AV-9 6-7
305440 -64	AV-9 7-8
305440 -65	AV-10 1-2
305440 -66	AV-10 2-3
305440 -67	AV-10 3-4
305440 -68	AV-10 4-5
305440 -69	AV-10 5-6
305440 -70	AV-10 5-6 Duplicate
305440 -71	AV-10 6-7
305440 -72	AV-10 7-8
305440 -73	AV-11 1-2
305440 -74	AV-11 2-3
305440 -75	AV-11 3-4
305440 -76	AV-11 5-6
305440 -77	AV-11 6-7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -78	AV-11 7-8
305440 -79	AV-12 1-2
305440 -80	AV-12 2-3
305440 -81	AV-12 3-4
305440 -82	AV-12 4-5
305440 -83	AV-12 5-6
305440 -84	AV-12 6-7
305440 -85	AV-12 7-8
305440 -86	AV-13 1-2
305440 -87	AV-13 2-3
305440 -88	AV-13 3-4
305440 -89	AV-13 4-5
305440 -90	AV-13 5-6
305440 -91	AV-13 6-7
305440 -92	AV-13 7-8
305440 -93	AV-14 1-2
305440 -94	AV-14 2-3
305440 -95	AV-14 3-4
305440 -96	AV-14 4-5
305440 -97	AV-14 5-6
305440 -98	AV-14 6-7
305440 -99	AV-14 7-8
305440 -100	AV-16 1-2
305440 -101	AV-16 2-3
305440 -102	AV-16 3-4
305440 -103	AV-16 4-5
305440 -104	AV-16 5-6
305440 -105	AV-16 6-7
305440 -106	AV-16 7-8
305440 -107	AV-15 1-2
305440 -108	AV-15 2-3
305440 -109	AV-15 3-4
305440 -110	AV-15 4-5
305440 -111	AV-15 5-6
305440 -112	AV-15 6-7
305440 -113	AV-15 7-8
305440 -114	AV-11-2-3 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-1 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-02
Date Analyzed:	05/28/13	Data File:	305440-02.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	94	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.33

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-1 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-05
Date Analyzed:	05/28/13	Data File:	305440-05.010
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	18.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-2 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-09
Date Analyzed:	05/28/13	Data File:	305440-09.035
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	5.95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-2 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-12
Date Analyzed:	05/28/13	Data File:	305440-12.037
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	205

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-3 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-16
Date Analyzed:	05/28/13	Data File:	305440-16.038
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	15.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-3 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-19
Date Analyzed:	05/28/13	Data File:	305440-19.039
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	37.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-4 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-23
Date Analyzed:	05/28/13	Data File:	305440-23.040
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-4 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-26
Date Analyzed:	05/28/13	Data File:	305440-26.041
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	90	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	159

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-5 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-30
Date Analyzed:	05/28/13	Data File:	305440-30.042
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-5 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-33
Date Analyzed:	05/28/13	Data File:	305440-33.043
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-6 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-37
Date Analyzed:	05/28/13	Data File:	305440-37.044
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	90	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-6 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-40
Date Analyzed:	05/28/13	Data File:	305440-40.045
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	35.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-7 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-44
Date Analyzed:	05/28/13	Data File:	305440-44.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	13.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-7 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-47
Date Analyzed:	05/28/13	Data File:	305440-47.048
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	222

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-8 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-51
Date Analyzed:	05/28/13	Data File:	305440-51.049
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	9.55

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-8 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-54
Date Analyzed:	05/28/13	Data File:	305440-54.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	204

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-9 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-58
Date Analyzed:	05/28/13	Data File:	305440-58.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	3.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-9 2-3 Duplicate	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	305440-59
Date Analyzed:	05/28/13	Data File:	305440-59.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-9 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-62
Date Analyzed:	05/28/13	Data File:	305440-62.091
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	73	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.37

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-10 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-66
Date Analyzed:	05/28/13	Data File:	305440-66.092
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	71	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	13.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-10 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-69
Date Analyzed:	05/28/13	Data File:	305440-69.093
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	70	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	25.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-10 5-6 Duplicate	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-70
Date Analyzed:	05/28/13	Data File:	305440-70.094
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	70	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	310

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-11 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-74
Date Analyzed:	05/28/13	Data File:	305440-74.095
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	67	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-11 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-76
Date Analyzed:	05/28/13	Data File:	305440-76.096
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	68	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	5.09

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-12 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-80
Date Analyzed:	05/28/13	Data File:	305440-80.097
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	66	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-12 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-83
Date Analyzed:	05/28/13	Data File:	305440-83.098
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	66	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	206

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-13 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-87
Date Analyzed:	05/28/13	Data File:	305440-87.099
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	65	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	13.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-13 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-90
Date Analyzed:	05/28/13	Data File:	305440-90.100
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	65	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	233

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-14 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-94
Date Analyzed:	05/28/13	Data File:	305440-94.102
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	65	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	18.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-14 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-97
Date Analyzed:	05/28/13	Data File:	305440-97.103
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	64	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	29.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-16 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-101
Date Analyzed:	05/28/13	Data File:	305440-101.104
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	63	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-16 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-104
Date Analyzed:	05/28/13	Data File:	305440-104.105
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	62	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	88.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-15 2-3	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-108
Date Analyzed:	05/28/13	Data File:	305440-108.106
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	62	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-15 5-6	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	305440-111
Date Analyzed:	05/28/13	Data File:	305440-111.087
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	76	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	59.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/24/13	Lab ID:	I3-280 mb
Date Analyzed:	05/28/13	Data File:	I3-280 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	101	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	05/28/13	Lab ID:	I3-282 mb
Date Analyzed:	05/28/13	Data File:	I3-282 mb.085
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	77	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/06/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

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

Laboratory Code: 305440-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	18.9	84 b	69 b	70-118	20 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	92	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/06/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

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

Laboratory Code: 305440-111 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	59.5	102 b	55 b	70-118	60 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	83-113

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.

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BRETT BEAULIEU
Company FLOYD SNIDER
Address 601 UNION STREET, SUITE 600
City, State, ZIP SEATTLE WA 98101
Phone # (206) 242-2078 Fax #

SAMPLERS (signature) [Signature]
PROJECT NAME/NO. P+L DM 1525
PO#
REMARKS PLEASE ARCHIVE SAMPLES NOT SELECTED FOR ANALYSIS

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	TOTAL AS	TOTAL AS							
AV-1 1-2	01	5/22/13	8:30	SOIL	1								X							
AV-1 2-3	02		8:35										X							
AV-1 3-4	03		8:40										X							
AV-1 4-5	04		8:45										X							
AV-1 5-6	05		8:50										X							
AV-1 6-7	06		8:55										X							
AV-1 7-8	07		9:00										X							
AV-2 1-2	08		9:05										X							
AV-2 2-3	09		9:10										X							
AV-2 3-4	10		9:15										X							

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [Signature]	Lisa Meoli	FIS	5/22/13	1600
Received by: [Signature]	DOVO	F&BI	"	"
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Page # 2 of 12

Send Report To BRETT BEAULIEU

Company FLOYD SMIDER

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO. PO#

BTM O&M 1525

REMARKS

PLEASE ARCHIVE SAMPLES NOT SELECTED

TURNAROUND TIME

- Standard (2 Weeks)
RUSH
Rush charges authorized by

SAMPLE DISPOSAL

- Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Lab ID, Date Sampled, Time Sampled, Sample Type, # of containers, ANALYSES REQUESTED (TPH-Diesel, TPH-Gasoline, BTEX by 8021B, VOCs by 8260, SVOCs by 8270, HFS, TOTAL AS), Notes. Rows include samples AV-2 and AV-3 with various lab IDs and times.

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Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Signature and Chain of Custody table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Includes entries for Relinquished by and Received by.

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY 12

Page # 3 of 12

Send Report To BOBET BEAULIEU

Company FLOWALISNIDER

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. PO#

REMARKS PLEASE ARCHIVE SAMPLES NOT SELECTED

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

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

Table with columns: Sample ID, Lab ID, Date Sampled, Time Sampled, Sample Type, # of containers, ANALYSES REQUESTED (TPH-Diesel, TPH-Gasoline, BTEX by 8021B, VOCs by 8260, SVOCs by 8270, HFS, TOTAL AS), Notes

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Fax (206) 283-5044

Signature and Chain of Custody table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 4 of 12 BTL

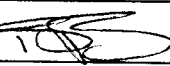
Send Report To BRETT BEAULIEU

Company FLOYD SNIPER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) 

PROJECT NAME/NO. BTL O&M 1525 PO# _____

REMARKS _____

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by _____

SAMPLE DISPOSAL

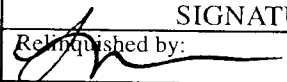
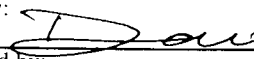
Dispose after 30 days

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	TOTAL AS								
AV-5 3-4	31	5/22/13	1100	SOIL	1															
AV 5 4-5	32		1105																	
AV 5 5-6	33		1110											X						
AV 5 6-7	34		1115																	
AV 5 7-8	35		1120																	
AV 5 1-2	36		1125																	
AV 6 2-3	37		1130											X						
AV 6 3-4	38		1135																	
AV 6 4-5	39		1140																	
AV 6 5-6	40		1145											X						

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	LISA MEOLO	PLS	5/22/13	1600
Received by: 	DO LO	F&BI	11	11
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BI4

Page # 5 of 12


Send Report To BRET BEAULIEU

Company FLOYD SMIDER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) 

PROJECT NAME/NO. BTL OTH 1525 PO# _____

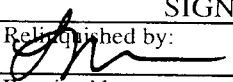
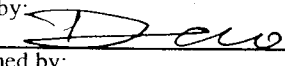
REMARKS
RETIRE ARCHIVE SAMPLES NOT SELECTED

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	TOTAL AS							
AV-6 6-7	41	5/22/13	1150	SOIL	1														
AV-6 7-8	42		1155																
AV-7 1-2	43		1200																
AV-7 2-3	44		1205										X						
AV-7 3-4	45		1210																
AV-7 4-5	46		1215																
AV-7 5-6	47		1220											X					
AV-7 6-7	48		1225																
AV-7 7-8	49		1230																
AV-8 1-2	50		1235																

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 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Uga Meoli	FS	5/22/13	1000
Received by: 	DA W	F & BI	11	11
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

Page # 8 of 12 B14

Send Report To Brett Beaulieu
Company Floyd Snider
Address _____
City, State, ZIP _____
Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. B+L OJM 1525 PO# _____

REMARKS Archive per PJ-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	TOT AS									
AV-11 1-2	73	5/22/13	1335	SOIL	1																
AV-11 2-3	74	↓	↓	↓	1																
AV-11 3-4	75				1																
AV-11 4-5	76				1																
AV-11 5-6	76				1																
AV-11 6-7	77 AB				1																
AV-11 7-8	78				1																
AV-12 1-2	79				12:40	1															
AV-12 2-3	80				1																
AV-12 3-4	81	1																			

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Lisa Meoli</u>	<u>FIS</u>	<u>5/22/13</u>	<u>1600</u>
Received by: <u>[Signature]</u>	<u>DD W</u>	<u>F&B I</u>	<u>"</u>	<u>11</u>
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 9 of 12 BI4

Send Report To Brett Bearlein

Company F/S

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. But L O+M 1925 PO# _____

REMARKS Archive per pg. 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	TOT AS											
AV-12 4-5	82	5/22/13	12:40	SOIL	1																		
AV-12 5-6	83	↓	↓	↓	1											X							
AV-12 6-7	84																						
AV-12 7-8	85								1														
AV-13 1-2	86					13:10			1														
AV-13 2-3	87	↓	↓	↓	1											X							
AV-13 3-4	88								1														
AV-13 4-5	89								1														
AV-13 5-6	90								1										X				
AV-13 6-7	91	↓	↓	↓	1																		

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	L. Meoli	F/S	5/22/13	1600
Received by: <u>[Signature]</u>	D O W	F & B I	" "	" "
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 10 of 12 BIC

Send Report To Brett Beauheim

Company FIS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLER'S (Signature) _____

PROJECT NAME/NO. \$42 OTH 1505 PO# _____

REMARKS Archive per pg.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	OT AS								
AV-13 7-8	92	5/24/13	13:10	SOIL	1															
AV-14 1-2	93	↓	13:30	↓	1															
AV-142-3	94				1															
AV-14 3-4	95				1															
AV-14 4-5	96				1															
AV-14 5-6	97				1															
AV-14 6-7	98				1															
AV-14 7-8	99				1															
AV-16 1-2	100				1400															
AV-16 2-3	101				↓															

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Limeoli	FIS	5/22/13	1600
Received by: <u>[Signature]</u>	Do Co	F+BF	"	"
Relinquished by:				
Received by:				

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

BT4

Send Report To Brett Beaulieu
 Company FIS
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

SAMPLERS (signature) _____
 PROJECT NAME/NO. 0 + m 1525 PO# _____
 REMARKS Archive per pg. 1

Page # 11 of 17
 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	TOT AS									
AV-16 3-4	102	5/22/13	1400	SOIL	1																
AV-16 4-5	103	↓	↓	↓	1																
AV-16 5-6	104												X								
AV-16 6-7	105							1													
AV-16 7-8	106							1													
AV-15 1-2	107				1350			1													
AV-15 2-3	108							1													
AV-15 3-4	109							1													
AV-15 4-5	110							1													
AV-15 5-6	111							1													

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>L. Meoli</u>	<u>FIS</u>	<u>5/22/13</u>	<u>1600</u>
Received by: <u>[Signature]</u>	<u>Da Lo</u>	<u>FYBE</u>	<u>"</u>	<u>"</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 6, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the results from the testing of material submitted on May 23, 2013 from the B+L Rim O+M 1525, F&BI 305469 project. There are 57 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
FDS0606R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 23, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L Rim O+M 1525, F&BI 305469 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305469-01	WD-1 1-2
305469-02	WD-1 2-3
305469-03	WD-1 3-4
305469-04	WD-1 4-5
305469-05	WD-2 1-2
305469-06	WD-2 2-3
305469-07	WD-2 3-4
305469-08	WD-2 4-5
305469-09	WD-3 1-2
305469-10	WD-3 2-3
305469-11	WD-3 3-4
305469-12	WD-3 4-5
305469-13	WD-4 1-2
305469-14	WD-4 2-3
305469-15	WD-4 3-4
305469-16	WD-4 4-5
305469-17	WD-5 1-2
305469-18	WD-5 2-3
305469-19	WD-5 3-4
305469-20	WD-5 4-5
305469-21	WD-6 1-2
305469-22	WD-6 2-3
305469-23	WD-6 3-4
305469-24	WD-6 4-5
305469-25	WD-7 1-2
305469-26	WD-7 2-3
305469-27	WD-7 3-4
305469-28	WD-7 4-5
305469-29	WD-8 1-2
305469-30	WD-8 2-3
305469-31	WD-8 3-4
305469-32	WD-8 4-5
305469-33	WD-9 1-2
305469-34	WD-9 2-3
305469-35	WD-9 3-4
305469-36	WD-9 4-5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305469-37	WD-10 1-2
305469-38	WD-10 2-3
305469-39	WD-10 3-4
305469-40	WD-10 4-5
305469-41	WD-11 1-2
305469-42	WD-11 2-3
305469-43	WD-11 3-4
305469-44	WD-11 4-5
305469-45	WD-12 1-2
305469-46	WD-12 2-3
305469-47	WD-12 3-4
305469-48	WD-12 4-5
305469-49	WD-13 1-2
305469-50	WD-13 2-3
305469-51	WD-13 3-4
305469-52	WD-13 4-5
305469-53	WD-14 1-2
305469-54	WD-14 2-3
305469-55	WD-14 3-4
305469-56	WD-14 4-5
305469-57	WD-1 3-4 Duplicate
305469-58	WD-2 2-3 Duplicate
305469-59	WD-5 1-2 Duplicate
305469-60	WD-6 3-4 Duplicate
305469-61	WD-8 1-2 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-1 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-01
Date Analyzed:	05/29/13	Data File:	305469-01.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	23.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-1 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-02
Date Analyzed:	05/29/13	Data File:	305469-02.047
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	18.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-1 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-03
Date Analyzed:	05/29/13	Data File:	305469-03.043
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	3.73

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-2 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-05
Date Analyzed:	05/29/13	Data File:	305469-05.049
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	29.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-2 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-06
Date Analyzed:	05/29/13	Data File:	305469-06.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	20.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-2 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-07
Date Analyzed:	05/29/13	Data File:	305469-07.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	5.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-3 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-09
Date Analyzed:	05/29/13	Data File:	305469-09.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	28.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-3 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-10
Date Analyzed:	05/29/13	Data File:	305469-10.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	46.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-3 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-11
Date Analyzed:	05/29/13	Data File:	305469-11.054
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	45.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-4 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-13
Date Analyzed:	05/29/13	Data File:	305469-13.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	26.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-4 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-14
Date Analyzed:	05/29/13	Data File:	305469-14.056
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	31.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-4 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-15
Date Analyzed:	05/29/13	Data File:	305469-15.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	6.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-5 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-17
Date Analyzed:	05/29/13	Data File:	305469-17.058
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	81	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	30.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-5 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-18
Date Analyzed:	05/29/13	Data File:	305469-18.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-5 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-19
Date Analyzed:	05/29/13	Data File:	305469-19.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-6 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-21
Date Analyzed:	05/29/13	Data File:	305469-21.062
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	27.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-6 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-22
Date Analyzed:	05/29/13	Data File:	305469-22.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	43.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-6 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-23
Date Analyzed:	05/29/13	Data File:	305469-23.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	9.58

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-7 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-25
Date Analyzed:	05/29/13	Data File:	305469-25.065
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	45.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-7 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-26
Date Analyzed:	05/29/13	Data File:	305469-26.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	76.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-7 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-27
Date Analyzed:	05/29/13	Data File:	305469-27.074
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	44.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-8 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-29
Date Analyzed:	05/29/13	Data File:	305469-29.075
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	31.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-8 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-30
Date Analyzed:	05/29/13	Data File:	305469-30.076
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	27.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-8 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-31
Date Analyzed:	05/29/13	Data File:	305469-31.077
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	12.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-9 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-33
Date Analyzed:	05/29/13	Data File:	305469-33.078
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	67.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-9 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-34
Date Analyzed:	05/29/13	Data File:	305469-34.071
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	23.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-9 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-35
Date Analyzed:	05/29/13	Data File:	305469-35.080
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.47

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-10 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-37
Date Analyzed:	05/29/13	Data File:	305469-37.081
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	29.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-10 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-38
Date Analyzed:	05/29/13	Data File:	305469-38.082
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	10.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-10 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-39
Date Analyzed:	05/29/13	Data File:	305469-39.083
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.59

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-11 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-41
Date Analyzed:	05/29/13	Data File:	305469-41.084
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	30.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-11 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-42
Date Analyzed:	05/29/13	Data File:	305469-42.085
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	54.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-11 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-43
Date Analyzed:	05/29/13	Data File:	305469-43.086
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	8.21

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-12 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-45
Date Analyzed:	05/29/13	Data File:	305469-45.087
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	20.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-12 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-46
Date Analyzed:	05/29/13	Data File:	305469-46.088
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	24.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-12 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-47
Date Analyzed:	05/29/13	Data File:	305469-47.089
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	9.91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-13 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-49
Date Analyzed:	05/29/13	Data File:	305469-49.091
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	41.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-13 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-50
Date Analyzed:	05/29/13	Data File:	305469-50.092
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	46.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-13 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-51
Date Analyzed:	05/29/13	Data File:	305469-51.093
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	13.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-14 1-2	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-53
Date Analyzed:	05/30/13	Data File:	305469-53.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	26.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-14 2-3	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-54
Date Analyzed:	05/30/13	Data File:	305469-54.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	23.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-14 3-4	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-55
Date Analyzed:	05/30/13	Data File:	305469-55.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	21.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-1 3-4 Duplicate	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-57
Date Analyzed:	05/30/13	Data File:	305469-57.015
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	5.62

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-2 2-3 Duplicate	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-58
Date Analyzed:	05/30/13	Data File:	305469-58.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	42.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-5 1-2 Duplicate	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-59
Date Analyzed:	05/30/13	Data File:	305469-59.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	47.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-6 3-4 Duplicate	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-60
Date Analyzed:	05/30/13	Data File:	305469-60.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	12.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-8 1-2 Duplicate	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	305469-61
Date Analyzed:	05/30/13	Data File:	305469-61.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	23.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	I3-286 mb
Date Analyzed:	05/29/13	Data File:	I3-286 mb.041
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	I3-287 mb
Date Analyzed:	05/29/13	Data File:	I3-287 mb.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	I3-287 mb
Date Analyzed:	05/30/13	Data File:	I3-287 mb.029
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration ug/g (ppm)
Arsenic	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L Rim O+M 1525, F&BI 305469
Date Extracted:	05/29/13	Lab ID:	I3-289 mb
Date Analyzed:	05/30/13	Data File:	I3-289 mb.013
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/06/13

Date Received: 05/23/13

Project: B+L Rim O+M 1525, F&BI 305469

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

Laboratory Code: 305469-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	3.73	90 b	88 b	70-118	2 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	91	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/06/13

Date Received: 05/23/13

Project: B+L Rim O+M 1525, F&BI 305469

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

Laboratory Code: 305469-34 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	23.3	132 b	64 b	70-118	69 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/06/13

Date Received: 05/23/13

Project: B+L Rim O+M 1525, F&BI 305469

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

Laboratory Code: 305469-57 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	4.05	96 b	97 b	70-118	1 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	101	83-113

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.

305469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

BT4

Send Report To Brett Beaulieu
 Company Floyd Snider
 Address 600 Union St Ste 601
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # _____

SAMPLE HFS (signature) [Signature]
 PROJECT NAME/NO. OH RLM 02M 1525 PO# _____
 REMARKS Arcture 4-5' interval only

Page # 1 of 4

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	BT	A5							
WD-1 1-2	01	5/23/13	1030	SOIL	1									X						
WD-1 2-3	02		1030											X						
WD-1 3-4	03		1030											X						
WD-1 4-5	04		1030											X						
WD-2 1-2	05		1035											X						
WD-2 2-3	06		1035											X						
WD-2 3-4	07		1035											X						
WD-2 4-5	08		1035											X						
WD-2 1-2	09		1040											X						
WD-3 2-3	10		1040											X						

Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	LISA Meoli	FIS	5/23/13	1405
Received by: <u>[Signature]</u>	JAMES Bruya	F&B	5/23/13	1405
Relinquished by:				
Received by:				

305469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

BEY

Send Report To Brett Beaulieu
 Company Floyd Snider
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

~~SAMPLERS~~ (signature) _____
 PROJECT NAME/NO. BFL 04m 1525 PO# _____
 REMARKS Archive 4-5' Interval only

Page # 2 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	PT AS											
WD-3 3-4	11	5/23/13	1040	Soil	1																		
WD-3 4-5	12		↓																				
WD-4 1-2	13		1045																				
WD-4 2-3	14																						
WD-4 3-4	15																						
WD-4 4-5	16																						
WD-5 1-2	17		1050																				
WD-5 2-3	18																						
WD-5 3-4	19																						
WD-5 4-5	20																						

Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	_____ Lisa Meola	_____ FIS	_____ 5/23/13	_____ 1405
Received by: _____	James Bruya	F&B	5/23/13	1405
Relinquished by: _____				
Received by: _____				

305469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

Page # 3 of 4 BT4

Send Report To North Beacher
Company Floyd Snider
Address _____
City, State, ZIP _____
Phone # _____ Fax # _____

SAMPLER (signature) _____
PROJECT NAME/NO. B+C STM 1425
PO# _____
REMARKS Archive 4-5' interval only

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	TOT AS					
WD-6 1-2	21	5/23/13	1055	SOIL	1							X					
WD-6 2-3	22	↓	↓	↓	↓							X					
WD-6 3-4	23	↓	↓	↓	↓							X					
WD-6 4-5	24	↓	↓	↓	↓												
WD-7 1-2	25	↓	1100	↓	↓							X					
WD-7 2-3	26	↓	↓	↓	↓							X					
WD-7 3-4	27	↓	↓	↓	↓							X					
WD-7 4-5	28	↓	↓	↓	↓												
WD-8 1-2	29	↓	1105	↓	↓							X					
WD-8 2-3	30	↓	↓	↓	↓							X					Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Lisa Meek	FIS	5/23/13	1405
Received by:	James Bruya	F&B	5/23/13	1405
Relinquished by:				
Received by:				

305969

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

Page # 4 of 7

Send Report To Brett Beaulieu
 Company Floyd Snider
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

SAMPLERS (signature) _____	
PROJECT NAME/NO. <u>Btr O&M 1525</u>	PO#
REMARKS <u>Archive 4-5' interval only</u>	

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	TOT As					
WD-8 3-4	31	5/23/13	1105	SOIL	1							X					
WD-8 4-5	32		↓														
WD-9 1-2	33		1200									X					
WD-9 2-3	34											X					
WD-9 3-4	35											X					
WD-9 4-5	36																
WD-10 1-2	37		1205									X					
WD-10 2-3	38											X					
WD-10 3-4	39											X					
WD-10 4-5	40																Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: _____	Lisa Meoli	FIS	5/23/13	1405
Received by: _____	James Bruya	F&B	5/23/13	1405
Relinquished by: _____				
Received by: _____				

305469

SAMPLE CHAIN OF CUSTODY ME 05/23/13

Send Report To Brett Beaulieu
Company Floyd Snider
Address _____
City, State, ZIP _____
Phone # _____ Fax # _____

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>B+L atm 1525</u>	PO#
REMARKS <u>Archive 4-5' interval only</u>	

TURNAROUND TIME	
<input type="checkbox"/> Standard (2 Weeks)	
<input type="checkbox"/> RUSH	
Rush charges authorized by _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Dispose after 30 days	
<input type="checkbox"/> Return samples	
<input type="checkbox"/> 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	TOT AS								
WD-11 1-2	41	5/23/13	1210	soil	1															
WD-11 2-3	42	↓	↓	↓	↓															
WD-11 3-4	43	↓	↓	↓	↓															
WD-11 4-5	44	↓	↓	↓	↓															
WD-12 1-2	45	↓	1220	↓	↓															
WD-12 2-3	46	↓	↓	↓	↓															
WD-12 3-4	47	↓	↓	↓	↓															
WD-12 4-5	48	↓	↓	↓	↓															
WD-13 1-2	49	↓	1225	↓	↓															
WD-13 2-3	50	↓	↓	↓	↓															Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Lisa Megh</u>	<u>PLS</u>	<u>5/23/13</u>	<u>1405</u>
Received by: <u>[Signature]</u>	<u>James Bruya</u>	<u>F&B</u>	<u>5/23/13</u>	<u>1405</u>
Relinquished by:				
Received by:				

305469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

Page # 6 of 7

Send Report To Brett Beaulin

Company Floyd Snider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____

PROJECT NAME/NO. UPH 07m 1525 PO# _____

REMARKS Archive 4-5' intervals only

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	TOT AS				
WD-13 3-4	51	5/23/13	1205	SOIL	1										X	
WD-13 4-5	52		↓													
WD-14 1-2	53		1230												X	
WD-14 2-3	54														X	
WD-14 3-4	55														X	
WD-14 4-5	56		↓													
WD-1 3-4 Duplicate	57		1030												X	
WD-2 2-3 Duplicate	58		1035												X	
WD-5 1-2 Duplicate	59		1050												X	
WD-6 3-4 Duplicate	60		1055												X	Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Lisa Medli	F&S	5/23/13	1405
Received by:	James Bruya	F&B	5/23/13	1405
Relinquished by:				
Received by:				

305469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

Page # 7 of 7 BID

Send Report To Brett Beaulieu

Company Floyd / Snider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____

PROJECT NAME/NO.

PAL OTRM 1525

PO#

REMARKS

TURNAROUND TIME

- Standard (2 Weeks)
 - RUSH _____
- Rush charges authorized by _____

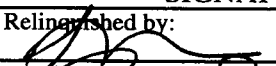

SAMPLE DISPOSAL

- 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									
WD-8 1-2 Duplicate	61	5/23/13	1105	SOIL	1									X						

Samples received at 15 °C

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Lisa Medici	F/S	5/23/13	1405
Received by: 	JAMES BRUYA	F&B	5/23/13	1405
Relinquished by: _____				
Received by: _____				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 14, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on May 22, 2013 from the B+L O+M 1525, F&BI 305440 project. There are 19 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0614R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 22, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M 1525, F&BI 305440 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -01	AV-1 1-2
305440 -02	AV-1 2-3
305440 -03	AV-1 3-4
305440 -04	AV-1 4-5
305440 -05	AV-1 5-6
305440 -06	AV-1 6-7
305440 -07	AV-1 7-8
305440 -08	AV-2 1-2
305440 -09	AV-2 2-3
305440 -10	AV-2 3-4
305440 -11	AV-2 4-5
305440 -12	AV-2 5-6
305440 -13	AV-2 6-7
305440 -14	AV-2 7-8
305440 -15	AV-3 1-2
305440 -16	AV-3 2-3
305440 -17	AV-3 3-4
305440 -18	AV-3 4-5
305440 -19	AV-3 5-6
305440 -20	AV-3 6-7
305440 -21	AV-3 7-8
305440 -22	AV-4 1-2
305440 -23	AV-4 2-3
305440 -24	AV-4 3-4
305440 -25	AV-4 4-5
305440 -26	AV-4 5-6
305440 -27	AV-4 6-7
305440 -28	AV-4 7-8
305440 -29	AV-5 1-2
305440 -30	AV-5 2-3
305440 -31	AV-5 3-4
305440 -32	AV-5 4-5
305440 -33	AV-5 5-6
305440 -34	AV-5 6-7
305440 -35	AV-5 7-8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -36	AV-6 1-2
305440 -37	AV-6 2-3
305440 -38	AV-6 3-4
305440 -39	AV-6 4-5
305440 -40	AV-6 5-6
305440 -41	AV-6 6-7
305440 -42	AV-6 7-8
305440 -43	AV-7 1-2
305440 -44	AV-7 2-3
305440 -45	AV-7 3-4
305440 -46	AV-7 4-5
305440 -47	AV-7 5-6
305440 -48	AV-7 6-7
305440 -49	AV-7 7-8
305440 -50	AV-8 1-2
305440 -51	AV-8 2-3
305440 -52	AV-8 3-4
305440 -53	AV-8 4-5
305440 -54	AV-8 5-6
305440 -55	AV-8 6-7
305440 -56	AV-8 7-8
305440 -57	AV-9 1-2
305440 -58	AV-9 2-3
305440 -59	AV-9 2-3 Duplicate
305440 -60	AV-9 3-4
305440 -61	AV-9 4-5
305440 -62	AV-9 5-6
305440 -63	AV-9 6-7
305440 -64	AV-9 7-8
305440 -65	AV-10 1-2
305440 -66	AV-10 2-3
305440 -67	AV-10 3-4
305440 -68	AV-10 4-5
305440 -69	AV-10 5-6
305440 -70	AV-10 5-6 Duplicate
305440 -71	AV-10 6-7
305440 -72	AV-10 7-8
305440 -73	AV-11 1-2
305440 -74	AV-11 2-3
305440 -75	AV-11 3-4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -76	AV-11 5-6
305440 -77	AV-11 6-7
305440 -78	AV-11 7-8
305440 -79	AV-12 1-2
305440 -80	AV-12 2-3
305440 -81	AV-12 3-4
305440 -82	AV-12 4-5
305440 -83	AV-12 5-6
305440 -84	AV-12 6-7
305440 -85	AV-12 7-8
305440 -86	AV-13 1-2
305440 -87	AV-13 2-3
305440 -88	AV-13 3-4
305440 -89	AV-13 4-5
305440 -90	AV-13 5-6
305440 -91	AV-13 6-7
305440 -92	AV-13 7-8
305440 -93	AV-14 1-2
305440 -94	AV-14 2-3
305440 -95	AV-14 3-4
305440 -96	AV-14 4-5
305440 -97	AV-14 5-6
305440 -98	AV-14 6-7
305440 -99	AV-14 7-8
305440 -100	AV-16 1-2
305440 -101	AV-16 2-3
305440 -102	AV-16 3-4
305440 -103	AV-16 4-5
305440 -104	AV-16 5-6
305440 -105	AV-16 6-7
305440 -106	AV-16 7-8
305440 -107	AV-15 1-2
305440 -108	AV-15 2-3
305440 -109	AV-15 3-4
305440 -110	AV-15 4-5
305440 -111	AV-15 5-6
305440 -112	AV-15 6-7
305440 -113	AV-15 7-8
305440 -114	AV-11-2-3 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-2 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-13
Date Analyzed:	06/11/13	Data File:	305440-13.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	71.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-3 3-4	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-17
Date Analyzed:	06/11/13	Data File:	305440-17.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	69.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-4 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-27
Date Analyzed:	06/11/13	Data File:	305440-27.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	37.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-5 3-4	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-31
Date Analyzed:	06/11/13	Data File:	305440-31.070
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	149

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-6 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-41
Date Analyzed:	06/11/13	Data File:	305440-41.071
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	559

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-7 3-4	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-45
Date Analyzed:	06/11/13	Data File:	305440-45.072
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	81	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	12.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-8 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-55
Date Analyzed:	06/11/13	Data File:	305440-55.073
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	612

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-10 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-71
Date Analyzed:	06/11/13	Data File:	305440-71.074
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	79	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	340

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-12 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-84
Date Analyzed:	06/11/13	Data File:	305440-84.079
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	79	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	458

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-13 3-4	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-88
Date Analyzed:	06/11/13	Data File:	305440-88.080
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration ug/g (ppm)
Arsenic	68.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-14 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-98
Date Analyzed:	06/11/13	Data File:	305440-98.081
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	447

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-16 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-105
Date Analyzed:	06/11/13	Data File:	305440-105.082
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	74	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	340

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-15 3-4	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	305440-109
Date Analyzed:	06/11/13	Data File:	305440-109.083
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	80	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	20.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/10/13	Lab ID:	I3-322 mb
Date Analyzed:	06/11/13	Data File:	I3-322 mb.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	ug/g (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/g (ppm)
Arsenic	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

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

Laboratory Code: 305440-13 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	55.9	0 b	0 b	70-118	0 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	98	83-113

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.

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BZY

Send Report To BRETT REAMER
 Company FLOND/SLINGER
 Address 601 UNION STREET, SUITE 600
 City, State, ZIP SEATTLE WA 98101
 Phone # (206) 242-2078 Fax # _____

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. _____ PO# _____
 B/L O/M 1525
 REMARKS
 PLEASE ARCHIVE SAMPLES NOT
 SELECTED FOR ANALYSIS

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	TOTAL AS					
AV-1 1-2	01	5/22/13	8:30	Soil	1												
AV-1 2-3	02		8:35		1												
AV-1 3-4	03		8:40		1												
AV-1 4-5	04		8:45		1												
AV-1 5-6	05		8:50		1												
AV-1 6-7	06		8:55		1												
AV-1 7-8	07		9:00		1												
AV-2 1-2	08		9:05		1												
AV-2 2-3	09		9:10		1												
AV-2 3-4	10		9:15		1												

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Lisa Meek</u>	<u>FLS</u>	<u>5/22/13</u>	<u>1:00</u>
<u>[Signature]</u>	<u>DD VO</u>	<u>F&B I</u>	<u>"</u>	<u>"</u>
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BRETT BRAYNE U

Company FLOYD/STUDER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BT DTM 1525

PO#

REMARKS PLASTIC ARCHIVE SAMPLES NOT

SEAL TIED

Page # 2 of 12

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		TOTAL AS		
AV-2 4-5	11	5/22/13	9:20	SOIL	1										
AV-2 5-6	12		9:25									X			
AV-2 6-7	13		9:30									X			
AV-2 7-8	14		9:35												
AV-3 1-2	15		9:40												
AV-3 2-3	16		9:45									X			
AV-3 3-4	17		9:50									X			
AV-3 4-5	18		9:55												
AV-3 5-6	19		10:00												
AV-3 6-7	20		10:05												

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>Lisa Neale</u>		<u>F/S</u>		<u>5/22/13</u>	<u>10:00</u>
<u>[Signature]</u>		<u>DL</u>		<u>FTBZ</u>		<u>11</u>	<u>11</u>
Received by:							

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY 12

Send Report To BAEST SERVICES

Company ELON DISCOVER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. _____ PO# _____

REMARKS
OL 5155 ACTIVE SANDWICH W/
SELECTED

Page # 3 of 12
 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	TOTAL AS		
AV-3 7-8	21	5/22/13	1010	SOIL	1									
AV-4 1-2	22		1015											
AV-4 2-3	23		1020											
AV-4 3-4	24		1025											
AV-4 4-5	25		1030											
AV-4 5-6	26		1035											
AV-4 6-7	27		1040											
AV-4 7-8	28		1045											
AV-5 1-2	29		1050											
AV-5 2-3	30		1055											

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>Lisa Meoli</u>		<u>E/S</u>		<u>5/22/13</u>		<u>1600</u>	
Relinquished by:		<u>[Signature]</u>		<u>David</u>		<u>5/22/13</u>		<u>11</u>	
Received by:									

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

Send Report To Brent Beaverville

Company FLOYD SKIDER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

Page # 4 of 12

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature) _____

PROJECT NAME/NO. _____

PO# _____

REMARKS

Btl own 1522

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		TOTAL AS
AV 5 3-4	31	5/22/13	1100	Soil	1							*	
AV 5 4-5	32		1105										
AV 5 5-6	33		1110									X	
AV 5 6-7	34		1115										
AV 5 7-8	35		1120										
AV 6 1-2	36		1125										
AV 6 2-3	37		1130									X	
AV 6 3-4	38		1135										
AV 6 4-5	39		1140										
AV 6 5-6	40		1145									X	

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Fax (206) 283-5044

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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Received by: _____	Relinquished by: _____	Lisa Neek	PS	5/22/13	16:00		
Received by: _____	Relinquished by: _____	DO	FT BT	"	"		
Received by: _____	Relinquished by: _____						

305940

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BT4

Send Report To BAERT RE-AVULIED

Company ECONO SUIZER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. _____

PO# _____

SHL OWN 1525

REMARKS

NETS ACUTIVE SAMPLES NOT SELECTED

Page # 5 of 12

TURNAROUND TIME

Standard (2 Weeks)

RUSH

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	
AV-6 6-7	41	5/22/13	1150	Soil	1							* TOTAL TS
AV-6 7-8	42		1155									
AV-7 1-2	43		1200									
AV-7 2-3	44		1205									X
AV-7 3-4	45		1210									* X
AV-7 4-5	46		1215									
AV-7 5-6	47		1220									X
AV-7 6-7	48		1225									
AV-7 7-8	49		1230									
AV-B 1-2	50		1235									

SIGNATURE

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME

Lisa Meoli

DD

COMPANY

PS

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DATE

5/22/13

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TIME

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305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BASET BSAVILLE

Company FRONDLSON

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. 9110 NW 1525

REMARKS PLEASE ARCHIVE

PO#

Page # 6 of 12

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		TOTAL AS
AV-8 2-3	51	5/22/13	1240	Soil	1							X	
AV-8 3-4	52		1245										
AV-8 4-5	53		1250									X	
AV-8 5-6	54		1255									X	
AV-8 6-7	55		1300									X	
AV-8 7-8	56		1305										
AV-9 1-2	57		1200										
AV-9 2-3	58		1200										AV-9 2-3
AV-9 3-4	59		1200										AV-9 2-3 Diff
AV-9 4-5	61		1200										

SIGNATURE

Relinquished by: [Signature]

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PRINT NAME

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COMPANY

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DATE

5/22/13

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TIME

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305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 7 of 12 BT4

Send Report To BAEIT BENTON

Company FLOWN SKIDDER

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature)		PO#
PROJECT NAME/NO. <u>BAE OXIM 1525</u>		
REMARKS <u>PLASTIC ADDITIVE</u>		

TURNAROUND TIME <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by _____	SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> 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						
AV-9 5-6	62	5/22/13	1200	Soil	1							X					
AV-9 6-7	63		1200														
AV-9 7-8	64		1200														
AV-10 1-2	65		1220														
AV-10 2-3	66		1220														
AV-10 3-4	67		1220														
AV-10 4-5	68		1220														
AV-10 6-7	69		1220														
AV-10 7-8	70		1220														
AV-10 7-8	71		1220														
AV-10 7-8	72		1220														

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Relinquished by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: _____		<u>W'sa Melli</u>	<u>H/S</u>	<u>5/22/13</u>	<u>1:00</u>
Relinquished by: _____		<u>DD</u>	<u>FYBZ</u>	<u>"</u>	<u>"</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 8 of 12

BT

Send Report To Brett Beaulieu

Company Elysd Swider

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (signature) PO#

PROJECT NAME/NO.

B+L OF M 1525

REMARKS

Analyse per pg. 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							
AV-11 1-2	73	5/22/13	1335	SOIL	1							X						
AV-11 2-3	74				1							X						
AV-11 3-4	75				1							X						
AV-11 4-5	Not received				1							X						
AV-11 5-6	76				1							X						
AV-11 6-7	77 78				1							X						
AV-11 7-8	78				1							X						
AV-12 1-2	79		12:40		1							X						
AV-12 2-3	80				1							X						
AV-12 3-4	81				1							X						

SIGNATURE

Received by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME

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BT

COMPANY

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F&BZ

DATE

5/22/13

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TIME

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SAMPLE CHAIN OF CUSTODY

NE 05/22/13

Page # 9 of 12

BT4

Send Report To Prett Brewster
 Company FS
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. But L Ot M 1525
 PO# _____
 REMARKS Archive per pg. 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					
AV-12 4-5	82	5/22/13	12:40	Soil	1							X				
AV-12 5-6	83				1							X				
AV-12 6-7	84				1							X				
AV-12 7-8	85				1							X				
AV-13 1-2	86		13:10		1							X				
AV-13 2-3	87				1							X				
AV-13 3-4	88				1							X				
AV-13 4-5	89				1							X				
AV-13 5-6	90				1							X				
AV-13 6-7	91				1							X				

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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		L. McCalli		FS		5/22/13	1600
Received by: <u>[Signature]</u>		D. D. vd		FS BI		"	"
Relinquished by:							
Received by:							

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SAMPLE CHAIN OF CUSTODY

ME 05/22/13

10 of 12 BTY

Send Report To Brett Bralier

Company F15

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLER (Signature)

PROJECT NAME/NO. Btl Orm 1525

PO#

REMARKS

Archive per pg.1

Page # _____ of _____

TURNDOWN 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
AV-13 7-8	92	5/21/13	13:10	Soil	1						X	
AV-14 1-2	93		13:30		1						X	
AV-14 2-3	94				1						X	
AV-14 3-4	95				1						X	
AV-14 4-5	96				1						X	
AV-14 5-6	97				1						X	
AV-14 6-7	98				1						X	
AV-14 7-8	99				1						X	
AV-16 1-2	100		1400		1						X	
AV-16 2-3	101				1						X	

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: (Signature)

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5/22/13

1600

Received by: (Signature)

David

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SAMPLE CHAIN OF CUSTODY ME 05/22/13

BTG

Send Report To Brett Brunkner

Company FIS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

Page # 1 of 12

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH

Rush charges authorized by _____

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

SAMPLERS (signature) _____
PROJECT NAME/NO. BTG 04 YR 1225

PO# _____

REMARKS

Archive per pg. 1

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				
AV-16 3-4	102	5/22/13	1400	soil	1										
AV-16 4-5	103				1										
AV-16 5-6	104				1										
AV-16 6-7	105				1										
AV-16 7-8	106				1										
AV-15 1-2	107		1350		1										
AV-15 2-3	108				1										
AV-15 3-4	109				1										
AV-15 4-5	110				1										
AV-15 5-6	111				1										

SIGNATURE

Requested by: [Signature]

Received by: [Signature]

Relinquished by: _____

Received by: _____

PRINT NAME

L. Weisli

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COMPANY

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DATE

5/22/13

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305440

SAMPLE CHAIN OF CUSTODY

NE 05722/13

Page # 12 of 12

Send Report To Prest Beaulieu

Company F/S

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature)		PO#
PROJECT NAME/NO.		
REMARKS		

<input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by _____	SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions
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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		TOT AS	
AV-16 6-7	112	5/22/13	1350	Soil	#1									
AV-16 7-8	113	↓	↓	↓	1									
AV-11-2-3 Duplicate	114	5/22/13	1335	Soil	1									* Added 5/22/13 at 145

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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Lisa Meoni</u>		<u>Lisa Meoni</u>		<u>F/S</u>		<u>5/22/13</u>	<u>11:00</u>
Received by: <u>Case</u>		<u>Case</u>		<u>F&B</u>		<u>11</u>	<u>11</u>
Relinquished by:							
Received by:							

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 17, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the results from the testing of material submitted on June 10, 2013 from the B+L O+M t-1525, F&BI 306149 project. There are 67 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Erin Murray
FDS0617R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M t-1525, F&BI 306149 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-01	AV-17 (3-4)
306149-02	AV-17 (4-5)
306149-03	AV-17 (5-6)
306149-04	AV-17 (6-7)
306149-05	AV-17 (7-8)
306149-06	AV-18 (3-4)
306149-07	AV-18 (4-5)
306149-08	AV-18 (5-6)
306149-09	AV-18 (6-7)
306149-10	AV-18 (7-8)
306149-11	AV-2-GW (6-10)
306149-12	AV-19 (3-4)
306149-13	AV-19 (4-5)
306149-14	AV-19 (5-6)
306149-15	AV-19 (5-6) Dup
306149-16	AV-19 (6-7)
306149-17	AV-19 (7-8)
306149-18	AV-19-GW (4-8)
306149-19	AV-20 (3-4)
306149-20	AV-20 (3-4) Dup
306149-21	AV-20 (4-5)
306149-22	AV-20 (5-6)
306149-23	AV-20 (6-7)
306149-24	AV-20 (7-8)
306149-25	AV-21 (3-4)
306149-26	AV-21 (4-5)
306149-27	AV-21 (5-6)
306149-28	AV-21 (6-7)
306149-29	AV-21 (7-8)
306149-30	AV-22 (3-4)
306149-31	AV-22 (4-5)
306149-32	AV-22 (5-6)
306149-33	AV-13-GW (7-11)
306149-34	AV-22 (6-7)
306149-35	AV-22 (7-8)
306149-36	AV-23 (3-4)
306149-37	AV-23 (4-5)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-38	AV-23 (5-6)
306149-39	AV-23 (5-6) DUP
306149-40	AV-23 (6-7)
306149-41	AV-23 (7-8)
306149-42	AV-24 (3-4)
306149-43	AV-24 (4-5)
306149-44	AV-24 (5-6)
306149-45	AV-24 (6-7)
306149-46	AV-24 (7-8)
306149-47	AV-25 (3-4)
306149-48	AV-25 (3-4) DUP
306149-49	AV-25 (4-5)
306149-50	AV-25 (5-6)
306149-51	AV-25 (6-7)
306149-52	AV-25 (7-8)
306149-53	AV-26 (3-4)
306149-54	AV-26 (3-4) DUP
306149-55	AV-26 (4-5)
306149-56	AV-26 (5-6)
306149-57	AV-26 (6-7)
306149-58	AV-26 (7-8)
306149-59	AV-27 (3-4)
306149-60	AV-27 (4-5)
306149-61	AV-27 (5-6)
306149-62	AV-27 (6-7)
306149-63	AV-27 (7-8)
306149-64	AV-28 (3-4)
306149-65	AV-28 (4-5)
306149-66	AV-28 (5-6)
306149-67	AV-28 (6-7)
306149-68	AV-28 (7-8)
306149-69	AV-29 (3-4)
306149-70	AV-29 (4-5)
306149-71	AV-29 (5-6)
306149-72	AV-29 (6-7)
306149-73	AV-29 (7-8)
306149-74	AV-30 (3-4)
306149-75	AV-30 (4-5)
306149-76	AV-30 (5-6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-77	AV-30 (5-6) DUP
306149-78	AV-30 (6-7)
306149-79	AV-30 (7-8)
306149-80	AV-31-GW (1-5)
306149-81	AV-32 (3-4)
306149-82	AV-32 (3-4) DUP
306149-83	AV-32 (4-5)
306149-84	AV-32 (5-6)
306149-85	AV-32 (6-7)
306149-86	AV-32 (7-8)
306149-87	WD-15 (0-1)
306149-88	WD-15 (1-2)
306149-89	WD-15 (2-3)
306149-90	WD-15 (2-3) DUP
306149-91	WD-15 (3-4)
306149-92	WD-15 (4-5)
306149-93	WD-16 (0-1)
306149-94	WD-16 (1-2)
306149-95	WD-16 (2-3)
306149-96	WD-16 (3-4)
306149-97	WD-16 (4-5)
306149-98	WD-17 (0-1)
306149-99	WD-17 (1-2)
306149-100	WD-17 (2-3)
306149-101	WD-17 (3-4)
306149-102	WD-17 (4-5)
306149-103	WD-18 (0-1)
306149-104	WD-18 (1-2)
306149-105	WD-18 (2-3)
306149-106	WD-18 (3-4)
306149-107	WD-18 (3-4) DUP
306149-108	WD-18 (4-5)

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-17 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-01
Date Analyzed:	06/12/13	Data File:	306149-01.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.46

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-17 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-03
Date Analyzed:	06/12/13	Data File:	306149-03.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	12.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-18 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-06
Date Analyzed:	06/12/13	Data File:	306149-06.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-18 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-08
Date Analyzed:	06/12/13	Data File:	306149-08.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-19 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-12
Date Analyzed:	06/12/13	Data File:	306149-12.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-19 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-14
Date Analyzed:	06/12/13	Data File:	306149-14.054
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	15.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-19 (5-6) Dup	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-15
Date Analyzed:	06/12/13	Data File:	306149-15.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	13.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-20 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-19
Date Analyzed:	06/12/13	Data File:	306149-19.056
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.53

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-20 (3-4) Dup	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-20
Date Analyzed:	06/12/13	Data File:	306149-20.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-20 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-22
Date Analyzed:	06/12/13	Data File:	306149-22.058
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	15.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-21 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-25
Date Analyzed:	06/12/13	Data File:	306149-25.059
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	67.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-21 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-27
Date Analyzed:	06/12/13	Data File:	306149-27.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	83	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-22 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-30
Date Analyzed:	06/12/13	Data File:	306149-30.062
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-22 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-32
Date Analyzed:	06/12/13	Data File:	306149-32.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	82	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.63

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-23 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-36
Date Analyzed:	06/12/13	Data File:	306149-36.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	86	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	32.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-23 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-38
Date Analyzed:	06/12/13	Data File:	306149-38.065
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-23 (5-6) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-39
Date Analyzed:	06/12/13	Data File:	306149-39.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-24 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-42
Date Analyzed:	06/12/13	Data File:	306149-42.067
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-24 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-44
Date Analyzed:	06/12/13	Data File:	306149-44.068
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.77

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-25 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-47
Date Analyzed:	06/12/13	Data File:	306149-47.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-25 (3-4) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-48
Date Analyzed:	06/12/13	Data File:	306149-48.029
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	89	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-25 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-50
Date Analyzed:	06/12/13	Data File:	306149-50.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	426

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-26 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-53
Date Analyzed:	06/12/13	Data File:	306149-53.031
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	54.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-26 (3-4) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-54
Date Analyzed:	06/12/13	Data File:	306149-54.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	90	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	51.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-26 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-56
Date Analyzed:	06/12/13	Data File:	306149-56.033
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	509

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-27 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-59
Date Analyzed:	06/12/13	Data File:	306149-59.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	90	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-27 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-61
Date Analyzed:	06/12/13	Data File:	306149-61.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	80.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-28 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-64
Date Analyzed:	06/12/13	Data File:	306149-64.035
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.46

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-28 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-66
Date Analyzed:	06/12/13	Data File:	306149-66.036
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.65

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-29 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-69
Date Analyzed:	06/12/13	Data File:	306149-69.037
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	1.70

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-29 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-71
Date Analyzed:	06/12/13	Data File:	306149-71.038
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.52

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-30 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-74
Date Analyzed:	06/12/13	Data File:	306149-74.040
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	23.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-30 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-76
Date Analyzed:	06/12/13	Data File:	306149-76.041
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	50.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-30 (5-6) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-77
Date Analyzed:	06/12/13	Data File:	306149-77.042
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	71	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	57.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-32 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-81
Date Analyzed:	06/12/13	Data File:	306149-81.043
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	17.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-32 (3-4) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-82
Date Analyzed:	06/12/13	Data File:	306149-82.044
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	23.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-32 (5-6)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-84
Date Analyzed:	06/12/13	Data File:	306149-84.045
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	86	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	51.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-15 (1-2)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-88
Date Analyzed:	06/12/13	Data File:	306149-88.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	30.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-15 (2-3)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-89
Date Analyzed:	06/12/13	Data File:	306149-89.047
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	85	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-15 (2-3) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-90
Date Analyzed:	06/12/13	Data File:	306149-90.048
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	29.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-15 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-91
Date Analyzed:	06/12/13	Data File:	306149-91.076
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.42

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-16 (1-2)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-94
Date Analyzed:	06/12/13	Data File:	306149-94.077
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	52.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-16 (2-3)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-95
Date Analyzed:	06/12/13	Data File:	306149-95.078
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	81	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-16 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-96
Date Analyzed:	06/12/13	Data File:	306149-96.079
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	2.63

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-17 (1-2)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-99
Date Analyzed:	06/12/13	Data File:	306149-99.080
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	81	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	56.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-17 (2-3)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-100
Date Analyzed:	06/12/13	Data File:	306149-100.082
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	81	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.49

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-17 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-101
Date Analyzed:	06/12/13	Data File:	306149-101.083
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.81

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-18 (1-2)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-104
Date Analyzed:	06/12/13	Data File:	306149-104.084
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	23.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-18 (2-3)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-105
Date Analyzed:	06/12/13	Data File:	306149-105.085
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	78	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.60

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-18 (3-4)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-106
Date Analyzed:	06/12/13	Data File:	306149-106.073
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.45

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-18 (3-4) DUP	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-107
Date Analyzed:	06/12/13	Data File:	306149-107.086
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	80	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.45

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	I3-334 mb
Date Analyzed:	06/12/13	Data File:	I3-334 mb.018
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	I3-335 mb
Date Analyzed:	06/12/13	Data File:	I3-335 mb.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	90	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	I3-338 mb
Date Analyzed:	06/12/13	Data File:	I3-338 mb.071
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	84	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	AV-2-GW (6-10)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-11
Date Analyzed:	06/13/13	Data File:	306149-11.010
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	106	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	80.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	AV-19-GW (4-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-18
Date Analyzed:	06/13/13	Data File:	306149-18.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	105	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	72.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	AV-13-GW (7-11)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-33
Date Analyzed:	06/13/13	Data File:	306149-33.020
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

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

Analyte:	Concentration ug/L (ppb)
Arsenic	31.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	AV-31-GW (1-5)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	306149-80
Date Analyzed:	06/13/13	Data File:	306149-80.021
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	105	60	125

Analyte:	Concentration ug/L (ppb)
Arsenic	141

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/12/13	Lab ID:	I3-339 mb
Date Analyzed:	06/13/13	Data File:	I3-339 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	108	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/17/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 306149-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	1.33	85	87	70-118	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	91	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/17/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 306149-59 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	9.54	87 b	85 b	70-118	2 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	91	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/17/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 306149-106 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	2.06	83 b	86 b	70-118	4 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	85	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/17/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 306149-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	80.6	57 b	71 b	60-150	22 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	89	80-111

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.

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BTY

Send Report To Brell Beaulieu
 Company Floyd Smider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. RTL 0+14
E. 1525
 PO#
 REMARKS

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-4 day
 Rush charges authorized by BB
 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	Total As		HOLD	
AV-17 (3-4)	01	6/7/13	0950	soil	1							X			
AV-17 (4-5)	02		0952		1							X			
AV-17 (5-6)	03		0954		1							X			
AV-17 (6-7)	04		0956		1							X			
AV-17 (7-8)	05		0958		1							X			
AV-18 (3-4)	06		1020		1							X			
AV-18 (4-5)	07		1022		1							X			
AV-18 (5-6)	08		1024		1							X			
AV-18 (6-7)	09		1026		1							X			
AV-18 (7-8)	10		1028		1							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: <u>[Signature]</u>		Kishu Anderson		Floyd Smider		6/10/13	1632
Received by: <u>[Signature]</u>		Nhan Pham		F&B T		6/10/13	1632
Relinquished by:							
Received by:							

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

Page # 2 of 1

Send Report To Brett Beaulieu
 Company Floyd Snyder
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-682-7887

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BRL OTH + 1525 PO#
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-day
 Rush charges authorized by FB
 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						
AN-2-GW (6-10)	11	0925 6/7/13	1100	GW	1													
AN-19 (3-4)	12	6/7/13	1100	Soil	1													
AN-19 (4-5)	13		1102		1													
AN-19 (5-6)	14		1104		1													
AN-19 (5-6) DUP	15		1106		1													
AN-19 (6-7)	16		1108		1													
AN-19 (7-8)	17		1110		1													
AN-19-GW (4-8)	18		1115	GW	1													
AN-20 (3-4)	19		1130	Soil	1													
AN-20 (3-4) DUP	20		1132		1													

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

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	Erskin Anderson	Floyd Snyder	6/10/13	1632		
Received by: <u>[Signature]</u>	<u>[Signature]</u>	Phou Phou	FB I	6/10/13	1632		
Relinquished by:							
Received by:				Samples received at			°C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BLV

Send Report To Brett Beuker
 Company Floyd Snider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-7078 Fax # 206-662-7867

SAMPLERS (signature) [Signature] Page # 3 of 1
 PROJECT NAME/NO. BLV OHM t.1525 PO#
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 SRUSH 3-Week
 Rush charges authorized by SR
 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		Total As	HOLD
AV-20 (4-5)	21	6/7/13	1134	soil	1							X		
AV-20 (5-6)	22		1136		1							X		
AV-20 (6-7)	23		1138		1							X		
AV-20 (7-8)	24		1140		1							X		
AV-21 (3-4)	25		1210		1							X		
AV-21 (4-5)	26		1212		1							X		
AV-21 (5-6)	27		1214		1							X		
AV-21 (6-7)	28		1216		1							X		
AV-21 (7-8)	29		1218		1							X		
AV-22 (3-4)	30		1350		1							X		

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

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		Kash Anderson	Floyd Snider	6/10/13	1632
Relinquished by: <u>[Signature]</u>		Shawn Phelan	FEBI	6/10/13	1632
Received by: <u>[Signature]</u>					5:00

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BL4

Send Report To Felt Beuker
 Company Floyd Sinter
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2678 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BTC GW t. 1525
 PO#
 REMARKS

Page # 4 of 11
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-day
 Rush charges authorized by [Signature]
 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		Total As	Diss. As	HOLD	
AU-22 (4-5)	31	6/7/13	1352	Soil	1								X			* per BR
AU-22 (5-6)	32		1354	Soil	1								X			6/11/13
AU-22 (6-7)	33		1355	GW	1								X			MS
AU-22 (7-8)	34		1356	Soil	1								X			
AU-22 (7-8)	35		1358		1									X		
AU-23 (3-4)	36		1320		1									*		
AU-23 (4-5)	37		1322		1									*		
AU-23 (5-6)	38		1324		1									*		
AU-23 (5-6) DUF	39		1326		1									*		
AU-23 (6-7)	40		1328		1									*		

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Kushn	Floyd Sinter	6/10/13	11:32
<u>[Signature]</u>	Ashwin Phau	FEI	6/10/13	
Received by:		Samples received at		5 °C

306149

SAMPLE CHAIN OF CUSTODY ME 06-10-13

Page # 5 of 11

Send Report To Bill Beveler
 Company Floyd Smith
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-297-2078 Fax # 206-682-7867

ANALYSES REQUESTED TPH-Diesel TPH-Gasoline BTEX by 8021B VOCs by 8260 SVOCs by 8270 HFS Total As HOLD		SAMPLES (signature) PROJECT NAME/NO. <u>BTL OXY E. 1525</u> REMARKS PO#
---	--	--

TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input checked="" type="checkbox"/> RUSH <u>3-day</u> Rush charges authorized by <u>BB</u>	SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input checked="" type="checkbox"/> 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	Total As		HOLD		
AV-23 (7-8)	41	6/7/13	1330													
AV-24 (3-4)	42		1445								X					
AV-24 (4-5)	43		1447								X					
AV-24 (5-6)	44		1449								X					
AV-24 (6-7)	45		1451								X					
AV-24 (7-8)	46		1453								X					
AV-25 (3-4)	47		1420								X					
AV-25 (8-9) DDP	48		1422								X					
AV-25 (4-5)	49		1424								X					
AV-25 (5-6)	50		1426								X					

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 Fax (206) 283-5044
 FORMS\COC\COC.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
		Kathie Anderson		Floyd Smith		6/10/13		1632	
Received by:		Adrian Pham		FERB T		6/10/13		-	
Received by: _____		_____		_____		_____		_____	

3060149
 SAMPLE CHAIN OF CUSTODY
 ME 06-10-13
 Page # 6 of 11
 BLY

Send Report To Brett Beaulieu
 Company Floyd I Smider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BTL 07M t. 1525
 PO#
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-Week
 Rush charges authorized by [Signature]
 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	Total As		HOLD		
AN-25 (6-7)	S1	6/7/13	1428	soil	1								X			
AN-25 (7-8)	S2		1430		1									X		
AN-26 (3-4)	S3		1534		1								X			
AN-26 (3-4) DUP	S4		1536		1								X			
AN-26 (4-5)	S5		1538		1								X			
AN-26 (5-6)	S6		1540		1								X			
AN-26 (6-7)	S7		1542		1								X			
AN-26 (7-8)	S8		1544		1								X			
AN-27 (3-4)	S9		1350		1								X			
AN-27 (4-5)	S0		1352		1								X			

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 3012 16th Avenue West
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 Fax (206) 283-5044
 FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Kristin Anderson	Floyd Smider	6/10/13	1632
<u>[Signature]</u>	Ashley Phelan	FBI	6/10/13	1632
Received by:		Samples received at	5	°C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BTY


Send Report To Brett Beaulieu

Company Floyd Snider

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) 

PROJECT NAME/NO. BTL OTH t. 1525

PO#

REMARKS

Page # 7 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-day

Rush charges authorized by BTB

SAMPLE DISPOSAL

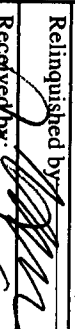

Dispose after 30 days

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	Total As		Holds	
AV-27 (5-6)	601	6/7/13	1354	Soil	1							X			
AV-27 (6-7)	602	↓	1356		1								X		
AV-27 (7-8)	603	↓	1358		1							X			
AV-28 (3-4)	604	6/10/13	0903		1							X			
AV-28 (4-5)	605	↓	0904		1							X			
AV-28 (5-6)	606	↓	0906		1							X			
AV-28 (6-7)	607	↓	0908		1							X			
AV-28 (7-8)	608	↓	0910		1							X			
AV-29 (3-4)	609	↓	0950		1							X			
AV-29 (4-5)	70	↓	0952		1							X			

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

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: 		Kristin Anderson		Floyd Snider		6/10/13	1632
Received by: 		Ashen Pham		FERI		✓	✓
Relinquished by:							
Received by:				Samples received at		5	00

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BL4

Send Report To Brett Bedier

Company Floyd Snider

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

Page # 8 of 11

TURNAROUND TIME

Standard (2 Weeks)
 RUSH 3-day
 Rush charges authorized by EB

SAMPLE DISPOSAL

Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BL4 OTH

PO#

REMARKS

ANALYSES REQUESTED

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	Total As	HOLD	Dis			
AV-24 (5-6)	71	6/10/13	0954	soil	1								X				
AV-24 (6-7)	72		0956		1								X				
AV-24 (7-8)	73		0958		1								X				
AV-30 (3-4)	74		0925		1								X				
AV-30 (4-5)	75		0927		1								X				
AV-30 (5-6)	76		0929		1								X				
AV-30 (5-6) DUP	77		0931		1								X				
AV-30 (6-7)	78		0933		1								X				
AV-30 (7-8)	79		0935		1								X				
AV-31-GW (1-5)	80		1050	GW	1									X			

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 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Kristin Anderson	Floyd Snider	6/10/13	1632
<u>[Signature]</u>	Phum Phum	FBI	6/19/13	1632

Relinquished by:	Received by:	Received by:
<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
Relinquished by:	Received by:	Received by:

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BZ4


Send Report To BCH Beaulieu

Company Floyd Smider

Address 601 Union St Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-7078 Fax # 206-882-7867

SAMPLERS (signature) 

PROJECT NAME/NO. BZ 0+M t-1525

PO#

REMARKS

Page # 9 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-Weeks by BB

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			
AW-32 (3-4)	81	6/10/13	1136	Soil	1						X				
AW-32 (3-4) DUP	82		1132		1						X				
AW-32 (4-5)	83		1134		1						X				
AW-32 (5-6)	84		1136		1						X				
AW-32 (6-7)	85		1138		1						X				
AW-32 (7-8)	86		1140		1						X				
WD-15 (0-1)	87		1250		1						X				
WD-15 (1-2)	88		1252		1						X				
WD-15 (2-3)	89		1254		1						X				
WD-15 (2-3) DUP	90		1256		1						X				

Friedman & Bruya, Inc.



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Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Erskin Anderson	Floyd Smider	6/10/13	1632
	Nhan Phan	FEBT	6/10/13	1632
Received by:		Samples received at		

306149

SAMPLE CHAIN OF CUSTODY ME 06-10-13

BY 4

Page # 10 of 11

Send Report To Brett Beaulieu

Company Floyd Smith

Address 601 Union St, Se 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BTL GM + 1525

PO#

REMARKS

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-day

Rush charges authorize [Signature]

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

ANALYSES REQUESTED

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	Total As		Hold		
WD-15 (3-4)	91	6/10/13	1258	soil	1							X				
WD-15 (4-5)	92		1300		1								X			
WD-16 (0-1)	93		1306		1								X			
WD-16 (1-2)	94		1308		1								X			
WD-16 (2-3)	95		1310		1								X			
WD-16 (3-4)	96		1312		1								X			
WD-16 (4-5)	97		1314		1								X			
WD-17 (0-1)	98		1320		1								X			
WD-17 (1-2)	99		1322		1								X			
WD-17 (2-3)	100		1324		1								X			

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

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Fax (206) 283-5044

FORMS/COC/COC.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	Kristin Anderson		Floyd Smith	6/10/13	1632	
Received by: <u>[Signature]</u>	<u>[Signature]</u>	Dhan Dhan		FEBT	6/10/13	1632	
Relinquished by:							
Received by:							

samples received at 5 °C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

Page # 11 of 11

BT

Send Report To Beth Beaulieu
 Company Floyd Snider
 Address 601 Owen St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-0378 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BRL OTH f. 1525
 PO#
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 5 day
 Rush charges authorized by [Signature]
 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		Total As	HOLD	
WD-17 (3-4)	101	6/10/13	1326	soil	1							X			
WD-17 (4-5)	102		1328										X		
WD-18 (6-1)	103		1342										X		
WD-18 (1-2)	104		1344										X		
WD-18 (2-3)	105		1346										X		
WD-18 (3-4)	106		1348										X		
WD-18 (3-4) DUP	107		1356										X		
WD-18 (4-5)	108		1352										X		

Friedman & Bruya, Inc.
 3012 16th Avenue West
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 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COCC\COE.DOC

Reinquished by: <u>[Signature]</u>	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>	Koshin Anderson	Floyd Snider	6/10/13	1632
Reinquished by: <u>[Signature]</u>	Phan	FBI	6/10/13	1632
Received by: <u>[Signature]</u>				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 26, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on June 10, 2013 from the B+L O+M t-1525, F&BI 306149, F&BI 306149 project. There are 12 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0626R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M t-1525, F&BI 306149 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-01	AV-17 (3-4)
306149-02	AV-17 (4-5)
306149-03	AV-17 (5-6)
306149-04	AV-17 (6-7)
306149-05	AV-17 (7-8)
306149-06	AV-18 (3-4)
306149-07	AV-18 (4-5)
306149-08	AV-18 (5-6)
306149-09	AV-18 (6-7)
306149-10	AV-18 (7-8)
306149-11	AV-2-GW (6-10)
306149-12	AV-19 (3-4)
306149-13	AV-19 (4-5)
306149-14	AV-19 (5-6)
306149-15	AV-19 (5-6) Dup
306149-16	AV-19 (6-7)
306149-17	AV-19 (7-8)
306149-18	AV-19-GW (4-8)
306149-19	AV-20 (3-4)
306149-20	AV-20 (3-4) Dup
306149-21	AV-20 (4-5)
306149-22	AV-20 (5-6)
306149-23	AV-20 (6-7)
306149-24	AV-20 (7-8)
306149-25	AV-21 (3-4)
306149-26	AV-21 (4-5)
306149-27	AV-21 (5-6)
306149-28	AV-21 (6-7)
306149-29	AV-21 (7-8)
306149-30	AV-22 (3-4)
306149-31	AV-22 (4-5)
306149-32	AV-22 (5-6)
306149-33	AV-13-GW (7-11)
306149-34	AV-22 (6-7)
306149-35	AV-22 (7-8)
306149-36	AV-23 (3-4)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-37	AV-23 (4-5)
306149-38	AV-23 (5-6)
306149-39	AV-23 (5-6) DUP
306149-40	AV-23 (6-7)
306149-41	AV-23 (7-8)
306149-42	AV-24 (3-4)
306149-43	AV-24 (4-5)
306149-44	AV-24 (5-6)
306149-45	AV-24 (6-7)
306149-46	AV-24 (7-8)
306149-47	AV-25 (3-4)
306149-48	AV-25 (3-4) DUP
306149-49	AV-25 (4-5)
306149-50	AV-25 (5-6)
306149-51	AV-25 (6-7)
306149-52	AV-25 (7-8)
306149-53	AV-26 (3-4)
306149-54	AV-26 (3-4) DUP
306149-55	AV-26 (4-5)
306149-56	AV-26 (5-6)
306149-57	AV-26 (6-7)
306149-58	AV-26 (7-8)
306149-59	AV-27 (3-4)
306149-60	AV-27 (4-5)
306149-61	AV-27 (5-6)
306149-62	AV-27 (6-7)
306149-63	AV-27 (7-8)
306149-64	AV-28 (3-4)
306149-65	AV-28 (4-5)
306149-66	AV-28 (5-6)
306149-67	AV-28 (6-7)
306149-68	AV-28 (7-8)
306149-69	AV-29 (3-4)
306149-70	AV-29 (4-5)
306149-71	AV-29 (5-6)
306149-72	AV-29 (6-7)
306149-73	AV-29 (7-8)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-74	AV-30 (3-4)
306149-75	AV-30 (4-5)
306149-76	AV-30 (5-6)
306149-77	AV-30 (5-6) DUP
306149-78	AV-30 (6-7)
306149-79	AV-30 (7-8)
306149-80	AV-31-GW (1-5)
306149-81	AV-32 (3-4)
306149-82	AV-32 (3-4) DUP
306149-83	AV-32 (4-5)
306149-84	AV-32 (5-6)
306149-85	AV-32 (6-7)
306149-86	AV-32 (7-8)
306149-87	WD-15 (0-1)
306149-88	WD-15 (1-2)
306149-89	WD-15 (2-3)
306149-90	WD-15 (2-3) DUP
306149-91	WD-15 (3-4)
306149-92	WD-15 (4-5)
306149-93	WD-16 (0-1)
306149-94	WD-16 (1-2)
306149-95	WD-16 (2-3)
306149-96	WD-16 (3-4)
306149-97	WD-16 (4-5)
306149-98	WD-17 (0-1)
306149-99	WD-17 (1-2)
306149-100	WD-17 (2-3)
306149-101	WD-17 (3-4)
306149-102	WD-17 (4-5)
306149-103	WD-18 (0-1)
306149-104	WD-18 (1-2)
306149-105	WD-18 (2-3)
306149-106	WD-18 (3-4)
306149-107	WD-18 (3-4) DUP
306149-108	WD-18 (4-5)

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-21 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-29
Date Analyzed:	06/19/13	Data File:	306149-29.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.75

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-23 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-41
Date Analyzed:	06/19/13	Data File:	306149-41.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	5.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-25 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-52
Date Analyzed:	06/19/13	Data File:	306149-52.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.09

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-26 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-58
Date Analyzed:	06/19/13	Data File:	306149-58.058
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-30 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-79
Date Analyzed:	06/19/13	Data File:	306149-79 rr.074
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-32 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	306149-86
Date Analyzed:	06/19/13	Data File:	306149-86 rr.075
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	81	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149, F&BI 306149
Date Extracted:	06/19/13	Lab ID:	I3-356 mb
Date Analyzed:	06/19/13	Data File:	I3-356 mb.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/26/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 306149-29 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	5.13	93 b	96 b	70-118	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	93	83-113

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.

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BTY

Send Report To Beth Beaulieu
 Company Elysd Smider
 Address 601 Owen St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. BTL 0+M
E-1625
 REMARKS _____

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-4 DAY
 Rush charges authorized by BB
 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		Total As	Hold	
AN-17 (3-4)	01	6/7/13	0950	soil	1							X			
AN-17 (4-5)	02		0952		1							X			
AN-17 (5-6)	03		0954		1							X			
AN-17 (6-7)	04		0956		1							X			
AN-17 (7-8)	05		0958		1							X			
AN-18 (3-4)	06		1020		1							X			
AN-18 (4-5)	07		1022		1							X			
AN-18 (5-6)	08		1024		1							X			
AN-18 (6-7)	09		1026		1							X			
AN-18 (7-8)	10		1028		1							X			

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

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	Kishn Anderson	played Smider			6/10/13	1632
<u>[Signature]</u>	<u>[Signature]</u>	Nhan Pham	Fe BT				
Received by:				Samples received at		5	

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

Page # 2 of 1

Send Report To Belt Reacher
 Company Floyd Smider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-652-7887

SAMPLERS (signature)		PO#
PROJECT NAME/NO.	BRL OYR + - 1525	
REMARKS		

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-5 days
 Rush charges authorized by FS

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	Total As		Dis. As	Hold		
AV-2-GW (6-10)	11	0925	6/13/13	GW	1								X				
AV-19 (3-4)	12	6/13	1100	soil	1								X				
AV-19 (4-5)	13		1102		1									X			
AV-19 (5-6)	14		1104		1								X				
AV-19 (5-6) DUP	15		1106		1								X				
AV-19 (6-7)	16		1108		1									X			
AV-19 (7-8)	17		1110		1									X			
AV-19-GW (4-8)	18		1115	GW	1									X			
AV-20 (3-4)	19		1130	soil	1									X			
AV-20 (3-4) DUP	20		1132		1									X			

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 Fax (206) 283-5044
 FORMS\COC\COC.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
		Karin Anderson		Floyd Smider		6/10/13	1632
Relinquished by:		Khan Khan		FBI I		6/10/13	1632
Received by:				Samples received at		5	°C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

City

Send Report To Brett Beuker

Company Floyd Snider

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-212-7078 Fax # 206-662-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. Brc OH t.1525

PO#

Page # 3 of 1

TURNAROUND TIME

Standard (2 weeks)

RUSH 3-4 days

Rush charges authorized by SB

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	Total As		HOLD	
AV-20 (4-5)	21	6/7/13	1134	soil	1							X			
AV-20 (5-6)	22		1136		1							X	X		
AV-20 (6-7)	23		1138		1							X	X		
AV-20 (7-8)	24		1140		1							X	X		
AV-21 (3-4)	25		1210		1							X			
AV-21 (4-5)	26		1212		1							X	X		
AV-21 (5-6)	27		1214		1							X			
AV-21 (6-7)	28		1216		1							X	X		
AV-21 (7-8)	29		1218		1							X	X		
AV-22 (3-4)	30		1350		1							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>Kash Anderson</u>	<u>Floyd Snider</u>	<u>FBI</u>	<u>FBI</u>	6/10/13	1632
<u>[Signature]</u>	<u>[Signature]</u>	<u>Karen Phelan</u>	<u>FBI</u>			6/10/13	1632
Received by:							
Retinquished by:							
Retinquished by:							
Received by:							

Samples received at 5 oc

3060149

SAMPLE CHAIN OF CUSTODY

HE-06-10-13

B24

Send Report To Rich Beuker
 Company Floyd Sinter
 Address 601 Union St, Ste 600
 City, State, ZIP Spokane, WA 99101
 Phone # 206-297-2098 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BTC GW t-1525
 PO#
 REMARKS

Page # 4 of 11
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-day
 Rush charges authorized by [Signature]
 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		Total As	Diss. As
AV-22 (4-5)	31	6/7/13	1352	Soil	1								X	4-pers
AV-22 (5-6)	32		1354	Soil	1								X	6/11/13
AV-23 (7-11)	33		1355	GW	1								X	MR
AV-22 (6-7)	34		1356	Soil	1								X	
AV-22 (7-8)	35		1358		1								X	
AV-23 (3-4)	36		1320		1								X	
AV-23 (4-5)	37		1322		1								X	
AV-23 (5-6)	38		1324		1								X	
AV-23 (5-6) DUP	39		1326		1								X	
AV-23 (6-7)	40		1328		1								X	

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 Fax (206) 283-5044
 FORMS/COC/DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	Kash Anderson	Anderson	Floyd Sinter	6/11/13	1432	
<u>[Signature]</u>	<u>[Signature]</u>	Alvan Pham	Pham	FBI	6/10/13		
Received by:							
Relinquished by:							
Received by:							

Samples received at 5 °C

306149

SAMPLE CHAIN OF CUSTODY ME 06-10-13

Page # 5 of 11

Send Report To Brett Beaulieu
 Company Floyd Smith
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2018 Fax # 206-682-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BFL OY4 E. 1525 PO#
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-days
 Rush charges authorized by BB
 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		Total					
AN-23 (7-8)	41	6/7/13	1330															
AN-24 (3-4)	42		1445									X						
AN-24 (4-5)	43		1447									X						
AN-24 (5-6)	44		1449									X						
AN-24 (6-7)	45		1451									X						
AN-24 (7-8)	46		1453									X						
AN-25 (3-4)	47		1420									X						
AN-25 (8-H) DP	48		1422									X						
AN-25 (4-5)	49		1424									X						
AN-25 (5-6)	50		1426									X						

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 FORMS\COC\COC.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	Kristin Anderson	Floyd Smith	6/10/13	1332		
Received by: <u>[Signature]</u>	<u>[Signature]</u>	William Phelan	FEB T	6/10/13			
Relinquished by:							
Received by:							

3060149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BDY

Send Report To Brett Beaulieu
 Company Floyd Smider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-652-7867

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BTL 07M f. 1525
 PO# [Blank]
 REMARKS [Blank]

Page # 6 of 1
 TURNAROUND TIME
 Standard (3 Weeks)
 RUSH 3-Week
 Rush charges authorized by [Signature]
 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		Total As	POH											
AV-25 (6-7)	51	6/7/13	1428	soil	1																				
AV-25 (7-8)	52		1430		1																				
AV-26 (3-4)	53		1534		1																				
AV-26 (3-4) DUP	54		1536		1																				
AV-26 (4-5)	55		1538		1																				
AV-26 (5-6)	56		1540		1																				
AV-26 (6-7)	57		1542		1																				
AV-26 (7-8)	58		1544		1																				
AV-27 (3-4)	59		1350		1																				
AV-27 (4-5)	60		1352		1																				

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

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	Kristin Anderson	Floyd Smider	6/10/13	1632		
Received by: <u>[Signature]</u>	<u>[Signature]</u>	Albin Pham	FBI	6/10/13	1632		
Relinquished by:							
Received by:							

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BY

Send Report To Brett Beaulieu
 Company Floyd Snider
 Address 601 Union St, Ste 606
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-687-7667

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. BRL OTH t. 1525
 PO# [Blank]
 REMARKS

TURNAROUND TIME 7 of 11
 Standard (2 Weeks)
 RUSH 3-days
 Rush charges authorized by [Signature]
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 SWill 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		Total As	HOLD		
AV-27 (5-6)	61	6/7/13	1354	Soil	1							X				
AV-27 (6-7)	62		1356		1								X			
AV-27 (7-8)	63		1358		1								X			
AV-28 (3-4)	64	6/10/13	0903		1							X				
AV-28 (4-5)	65		0904		1								X			
AV-28 (5-6)	66		0906		1							X				
AV-28 (6-7)	67		0908		1								X			
AV-28 (7-8)	68		0916		1								X			
AV-29 (3-4)	69		0950		1								X			
AV-29 (4-5)	70		0952		1								X			

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 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS/COC/COC.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Received by: <u>[Signature]</u>	<u>[Signature]</u>	<u>Kristin Anderson</u>	<u>Floyd Snider</u>	<u>6/10/13</u>	<u>1632</u>		
Retrieved by: <u>[Signature]</u>	<u>[Signature]</u>	<u>Ashlan Phelan</u>	<u>FERT</u>	<u>1</u>	<u>1</u>		
Received by:				Samples received at	<u>5</u>	<u>00</u>	

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BZY

Send Report To Belt Berberis

Company Floyd Snider

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-297-2078 Fax # 206-682-7867

Page # 8 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-day

Rush charges authorized by EBJ

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BZL OWM

PO#

REMARKS

ANALYSES REQUESTED

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		Total As	HOLD	Disc		
AW-29 (5-6)	71	6/10/13	0954	Soil	1							X					
AW-29 (6-7)	72		0956		1							X					
AW-29 (7-8)	73		0958		1							X					
AW-30 (3-4)	74		0925		1							X					
AW-30 (4-5)	75		0927		1							X					
AW-30 (5-6)	76		0929		1							X					
AW-30 (5-6) DUP	77		0931		1							X					
AW-30 (6-7)	78		0933		1							X					
AW-30 (7-8)	79		0935		1							X					
AW-31-GW (1-5)	80		1050	GW	1							X					

Friedman & Bryga, 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: <u>[Signature]</u>		Kristin Anderson		Floyd Snider		6/10/13	1632
Requested by: <u>[Signature]</u>		Nhan Pham		FBI		6/10/13	1632
Relinquished by: <u>[Signature]</u>							
Received by: <u>[Signature]</u>							

Sampler received at 5 06

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BEY

Send Report To Belt Beaulieu

Company Floyd Snider

Address 601 Union St Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-7076 Fax # 206-82-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. B12 OTH t-1525

PO#

REMARKS

Page # 9 of 11

TURNAROUND TIME

Standard (2 weeks)
 RUSH 3-weekly
Rush charges authorized by BB

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	Hold				
AU-32 (3-4)	81	6/10/13	1136	Soil	1												
AU-32 (3-4) DUP	82		1132		1												
AU-32 (4-5)	83		1134		1												
AU-32 (5-6)	84		1136		1												
AU-32 (6-7)	85		1138		1												
AU-32 (7-8)	86		1140		1												
WD-15 (0-1)	87		1250		1												
WD-15 (1-2)	88		1252		1												
WD-15 (2-3)	89		1254		1												
WD-15 (2-3) DUP	90		1256		1												

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax: (206) 283-5044

FORMSCCOCDOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	Kushn Anderson	Floyd Snider	6/10/13	1632		
Received by: <u>[Signature]</u>	<u>[Signature]</u>	Nhan Phan	F&B I	6/10/13	1632		
Relinquished by:							
Received by:			Samples received at _____				

306149

SAMPLE CHAIN OF CUSTODY ME 06-10-13

BY

Send Report To Beth Beaulieu

Company Floyd Snyder

Address 601 Union St, Se 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BHL OHM f. 1525

PO#

REMARKS

Page # 10 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-day

Rush charges authorized [Signature]

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		Total As	Hold		
WD-15 (3-4)	91	6/10/13	1258	soil	1							X				
WD-15 (4-5)	92		1300		1								X			
WD-16 (0-1)	93		1306		1								X			
WD-16 (1-2)	94		1308		1							X				
WD-16 (2-3)	95		1310		1							X				
WD-16 (3-4)	96		1312		1							X				
WD-16 (4-5)	97		1314		1							X				
WD-17 (0-1)	98		1320		1							X				
WD-17 (1-2)	99		1322		1							X				
WD-17 (2-3)	100		1324		1							X				

Friedman & Bryga, 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>	Kristin Anderson	Floyd Snyder	6/10/13	1632		
<u>[Signature]</u>	<u>[Signature]</u>	Phan Pham	F&B I	6/10/13	1632		
Received by:							

306149

SAMPLE CHAIN OF CUSTODY

NE 06-10-13

BT

Send Report To BCH Beaverton
 Company Floyd Snider
 Address 601 Owen St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2778 Fax # 206-692-7864

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. Btl OTH f. 1525
 PO#
 REMARKS

Page # 11 of 11
 TURNDOWN TIME
 Standard (2 Weeks)
 RUSH 5 day
 Rush charges authorized by [Signature]
 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	Total As	HOLD	
WD-17 (3-4)	101	6/10/13	1326	soil	1						X				
WD-17 (4-5)	102		1328									X			
WD-18 (6-1)	103		1342										X		
WD-18 (1-2)	104		1344										X		
WD-18 (2-3)	105		1346										X		
WD-18 (3-4)	106		1348										X		
WD-18 (3-4) DUP	107		1350										X		
WD-18 (4-5)	108		1352										X		

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Keshin Anderson	Floyd Snider	6/10/13	1632
<u>[Signature]</u>	Shawn Praman	FBI	6/10/13	1632
Received by:		samples received at		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 27, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St.
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on May 22, 2013 from the B+L O+M 1525, F&BI 305440 project. There are 15 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0627R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 22, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M 1525, F&BI 305440 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -01	AV-1 1-2
305440 -02	AV-1 2-3
305440 -03	AV-1 3-4
305440 -04	AV-1 4-5
305440 -05	AV-1 5-6
305440 -06	AV-1 6-7
305440 -07	AV-1 7-8
305440 -08	AV-2 1-2
305440 -09	AV-2 2-3
305440 -10	AV-2 3-4
305440 -11	AV-2 4-5
305440 -12	AV-2 5-6
305440 -13	AV-2 6-7
305440 -14	AV-2 7-8
305440 -15	AV-3 1-2
305440 -16	AV-3 2-3
305440 -17	AV-3 3-4
305440 -18	AV-3 4-5
305440 -19	AV-3 5-6
305440 -20	AV-3 6-7
305440 -21	AV-3 7-8
305440 -22	AV-4 1-2
305440 -23	AV-4 2-3
305440 -24	AV-4 3-4
305440 -25	AV-4 4-5
305440 -26	AV-4 5-6
305440 -27	AV-4 6-7
305440 -28	AV-4 7-8
305440 -29	AV-5 1-2
305440 -30	AV-5 2-3
305440 -31	AV-5 3-4
305440 -32	AV-5 4-5
305440 -33	AV-5 5-6
305440 -34	AV-5 6-7
305440 -35	AV-5 7-8
305440 -36	AV-6 1-2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -37	AV-6 2-3
305440 -38	AV-6 3-4
305440 -39	AV-6 4-5
305440 -40	AV-6 5-6
305440 -41	AV-6 6-7
305440 -42	AV-6 7-8
305440 -43	AV-7 1-2
305440 -44	AV-7 2-3
305440 -45	AV-7 3-4
305440 -46	AV-7 4-5
305440 -47	AV-7 5-6
305440 -48	AV-7 6-7
305440 -49	AV-7 7-8
305440 -50	AV-8 1-2
305440 -51	AV-8 2-3
305440 -52	AV-8 3-4
305440 -53	AV-8 4-5
305440 -54	AV-8 5-6
305440 -55	AV-8 6-7
305440 -56	AV-8 7-8
305440 -57	AV-9 1-2
305440 -58	AV-9 2-3
305440 -59	AV-9 2-3 Duplicate
305440 -60	AV-9 3-4
305440 -61	AV-9 4-5
305440 -62	AV-9 5-6
305440 -63	AV-9 6-7
305440 -64	AV-9 7-8
305440 -65	AV-10 1-2
305440 -66	AV-10 2-3
305440 -67	AV-10 3-4
305440 -68	AV-10 4-5
305440 -69	AV-10 5-6
305440 -70	AV-10 5-6 Duplicate
305440 -71	AV-10 6-7
305440 -72	AV-10 7-8
305440 -73	AV-11 1-2
305440 -74	AV-11 2-3
305440 -75	AV-11 3-4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -76	AV-11 5-6
305440 -77	AV-11 6-7
305440 -78	AV-11 7-8
305440 -79	AV-12 1-2
305440 -80	AV-12 2-3
305440 -81	AV-12 3-4
305440 -82	AV-12 4-5
305440 -83	AV-12 5-6
305440 -84	AV-12 6-7
305440 -85	AV-12 7-8
305440 -86	AV-13 1-2
305440 -87	AV-13 2-3
305440 -88	AV-13 3-4
305440 -89	AV-13 4-5
305440 -90	AV-13 5-6
305440 -91	AV-13 6-7
305440 -92	AV-13 7-8
305440 -93	AV-14 1-2
305440 -94	AV-14 2-3
305440 -95	AV-14 3-4
305440 -96	AV-14 4-5
305440 -97	AV-14 5-6
305440 -98	AV-14 6-7
305440 -99	AV-14 7-8
305440 -100	AV-16 1-2
305440 -101	AV-16 2-3
305440 -102	AV-16 3-4
305440 -103	AV-16 4-5
305440 -104	AV-16 5-6
305440 -105	AV-16 6-7
305440 -106	AV-16 7-8
305440 -107	AV-15 1-2
305440 -108	AV-15 2-3
305440 -109	AV-15 3-4
305440 -110	AV-15 4-5
305440 -111	AV-15 5-6
305440 -112	AV-15 6-7
305440 -113	AV-15 7-8
305440 -114	AV-11-2-3 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-2 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-14
Date Analyzed:	06/19/13	Data File:	305440-14.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	8.82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-3 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-20
Date Analyzed:	06/19/13	Data File:	305440-20.062
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	11.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-3 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-21
Date Analyzed:	06/19/13	Data File:	305440-21.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-8 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-56
Date Analyzed:	06/19/13	Data File:	305440-56.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	89	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	265

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-12 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-85
Date Analyzed:	06/19/13	Data File:	305440-85.065
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	92.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-16 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	305440-106
Date Analyzed:	06/19/13	Data File:	305440-106.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/19/13	Lab ID:	I3-356 mb
Date Analyzed:	06/19/13	Data File:	I3-356 mb.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	87	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	AV-8 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/25/13	Lab ID:	305440-55
Date Analyzed:	06/25/13	Data File:	305440-55.029
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	06/25/13	Lab ID:	I3-372 mb
Date Analyzed:	06/25/13	Data File:	I3-372 mb.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	84	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Arsenic	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/27/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

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

Laboratory Code: 306149-29 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	5.13	93 b	96 b	70-118	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	93	83-113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/27/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TCLP METALS USING
EPA METHOD 200.8 AND 40 CFR PART 261**

Laboratory Code: 305440-55 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	94	93	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/L (ppm)	1.0	96	70-130

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.

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BIGT SEATTLE

Company FLOYD SWINER

Address 601 UNION STREET, SUITE 600

City, State, ZIP SEATTLE WA 98101

Phone # (206) 242-2078 Fax # _____

SAMPLERS (signature) [Signature]

PO#

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

REMARKS
PLEASE ARCHIVE SAMPLES NOT
SELECTED FOR ANALYSIS

ANALYSES REQUESTED

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	HPS	TOTAL AS	TOTAL AS	TOTAL AS	TOTAL AS		TOTAL AS			
AV-1 1-2	01	5/22/13	8:30	Soil	1															
AV-1 2-3	02		8:35																	
AV-1 3-4	03		8:40																	
AV-1 4-5	04		8:45																	
AV-1 5-6	05		8:50																	
AV-1 6-7	06		8:55																	
AV-1 7-8	07		9:00																	
AV-2 1-2	08		9:05																	
AV-2 2-3	09		9:10																	
AV-2 3-4	10		9:15																	

SIGNATURE

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME

Lisa Meek

DD VO

COMPANY

FGS

FBZ

DATE

5/22/13

"

TIME

1:00

"

Friedman & Bryna, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\CGC\CGC.DOC

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

BTY

Page # 2 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Send Report To BRETT BEAVER

Company FLOM DISINTEGR

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BTM 04M 1525

PO#

REMARKS

PLEASE ADVISE SAMPLER NOT SECTORED

ANALYSES REQUESTED

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	TOTAL AS
AV-2 4-5	11	5/22/13	9:20	SOIL	1								
AV-2 5-6	12		9:25								X		
AV-2 6-7	13		9:30								X		
AV-2 7-8	14		9:35								O		
AV-3 1-2	15		9:40								X		
AV-3 2-3	16		9:45								X		
AV-3 3-4	17		9:50								X		
AV-3 4-5	18		9:55								X		
AV-3 5-6	19		10:00								X		
AV-3 6-7	20		10:05								O		

SIGNATURE

[Signature]

PRINT NAME

Lisa Wash

COMPANY

F/S

DATE

5/29/13

TIME

1:00

Relinquished by:

[Signature]

DL 10

F+BT

11

Received by:

[Signature]

DL 10

F+BT

11

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BAJET SERVICES

Company FLEMALSRV.DZ

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. _____

PO# _____

REMARKS
PLASTIC ARCHIVE SANDS NOT SERVICED

Page # 3 of 12

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH

Rush charges authorized by _____

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

ANALYSES REQUESTED

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		TOTAL AS		
AV-3 7-8	21	5/22/13	1010	SDIC	1										
AV-4 1-2	22		1015												
AV-4 2-3	23		1020												
AV-4 3-4	24		1025												
AV-4 4-5	25		1030												
AV-4 5-6	26		1035												
AV-4 6-7	27		1040												
AV-4 7-8	28		1045												
AV-5 1-2	29		1050												
AV-5 2-3	30		1055												

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Received by: [Signature]

Relinquished by: [Signature]

PRINT NAME

Lisa Meoli

David

COMPANY

F/S

FR82

DATE

5/22/13

"

TIME

1600

"

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

Send Report To Brett Seavick

SAMPLERS (signature) [Signature]

Page # 4 of 12 BTY

Company FLOYD SKIPPER

PROJECT NAME/NO. BTL OXN 1525

PO#

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

REMARKS

SAMPLERS (signature)	PROJECT NAME/NO.	PO#
<u>[Signature]</u>	<u>BTL OXN 1525</u>	
REMARKS		

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 8021 B	VOCs by 8260	SVOCs by 8270	HFS	TOTAL AS		
AV 5 3-4	31	5/22/13	1100	Soil	1								*	
AV 5 4-5	32		1105											
AV 5 5-6	33		1110										X	
AV 5 6-7	34		1115											
AV 5 7-8	35		1120											
AV 6 1-2	36		1125											
AV 6 2-3	37		1130										X	
AV 6 3-4	38		1135											
AV 6 4-5	39		1140											
AV 6 5-6	40		1145											X

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

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Lisa Neek</u>	<u>PLS</u>	<u>5/22/13</u>	<u>16:00</u>
Relinquished by: _____		<u>DA CO</u>	<u>PLS</u>	<u>"</u>	<u>"</u>
Received by: _____					

305940

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BT4

Send Report To BRETT SEAWARD

Company EDYD SUNDER

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. _____

PO# _____

REMARKS
NET RE ACQUIRE SAMPLES NOT SELECTED

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

ANALYSES REQUESTED

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							
AV-6 6-7	41	5/22/13	1150	Soil	1													
AV-6 7-8	42		1155															
AV-7 1-2	43		1200															
AV-7 2-3	44		1205															
AV-7 3-4	45		1210															
AV-7 4-5	46		1215															
AV-7 5-6	47		1220															
AV-7 6-7	48		1225															
AV-7 7-8	49		1230															
AV-B 1-2	50		1235															

Friedman & Bryna, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\CC\CC\CC.DOC

SIGNATURE

Received by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: _____

PRINT NAME

Lisa Meeli

DD

COMPANY

FS

FS & SE

DATE

5/22/13

11

TIME

1600

1

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13 BRY

Send Report to BRETT BEAULIEU

Company FLYNN/SONICOR

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

Page # 6 of 12

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature) <u>[Signature]</u>	PROJECT NAME/NO. <u>RTL DOWN 1525</u>	PO# _____
REMARKS <u>PLEASE ARCHIVE</u>		

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		TOTAL AS	TCLP AS	
AV-B 2-3	51	5/22/13	1240	Soil	1							X			
AV-B 3-4	52		1245												
AV-B 4-5	53		1250												
AV-B 5-6	54		1255												
AV-B 6-7	55		1300												
AV-B 7-8	56		1305												
AV-9 1-2	57		1200												
AV-9 2-3	58		1200												
AV-9 3-4	59		1200												
AV-9 4-5	60		1200												

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 Fax (206) 283-5044
 FORMS/COC/CQC.DOC

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Yick West Co</u>	<u>P/S</u>	<u>5/22/13</u>	<u>NOV</u>
Relinquished by: _____		<u>DD WD</u>	<u>FFOE</u>	<u>11</u>	<u>11</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 7 of 12 Biry

Send Report To BOETT RESOURCES

Company FLUOR SUPPLY

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____		PO# _____
PROJECT NAME/NO. <u>ENV DRAIN 1525</u>		
REMARKS <u>PLATES ATTACHED</u>		

TURNAROUND TIME	<u>7</u>
Standard (2 Weeks)	<input type="checkbox"/>
RUSH	<input type="checkbox"/>
Rush charges authorized by	
SAMPLE DISPOSAL	
Dispose after 30 days	<input type="checkbox"/>
Return samples	<input type="checkbox"/>
Will call with instructions	<input type="checkbox"/>

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						
AV-9 5-6	62	5/22/13	1200	Soil	1												
AV-9 6-7	63		1200														
AV-9 7-8	64		1200														
AV-10 1-2	65		1220														
AV-10 2-3	66		1220														
AV-10 3-4	67		1220														
AV-10 4-5	68		1220														
AV-10 6-7	69		1220														
AV-10 7-8	70		1220														
AV-10 7-8	71		1220														
AV-10 7-8	72		1220														

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS00G0C0C.DOC

Relinquished by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: _____		<u>Lisa Kroll</u>	<u>H/S</u>	<u>5/22/13</u>	<u>1:00</u>
Relinquished by: _____		<u>DD</u>	<u>FRRI</u>	<u>"</u>	<u>"</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

Page # 9 of 12

Send Report to Prett Rev. Inc.

Company ELS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) [Signature]
PROJECT NAME/NO. Dr L Ot M 1525
PO# _____

REMARKS

Archive per pg. 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			
AV-12 4-5	82	5/22/13	12:40	Soil	1									
AV-12 5-4	83				1						X			
AV-12 6-7	84				1						X			
AV-12 7-8	85				1						X			
AV-13 1-2	86		13:10		1						X			
AV-13 2-3	87				1						X			
AV-13 3-4	88				1						X			
AV-13 4-5	89				1						X			
AV-13 5-6	90				1						X			
AV-13 6-7	91				1						X			

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\CCOC\CCJ.DOC

Receiving by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>L. McCall</u>	<u>ELS</u>	<u>5/22/13</u>	<u>1600</u>
Relinquished by: <u>[Signature]</u>		<u>Dr vd</u>	<u>FR BI</u>	<u>"</u>	<u>"</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

10 of 12 BTY

Send Report To Brett Bauerlein

Company FIS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLE ID <u>92</u>	Signature <u>[Signature]</u>
PROJECT NAME/NO. <u>\$42 ORN 1525</u>	PO# _____
REMARKS <u>Archive per pg.1</u>	

TURNAROUND TIME	<input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by _____
SAMPLE DISPOSAL	<input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> 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			
AW-13 7-8	92	5/21/13	3:10	Soil	1									
AW-14 F-2	93		13:30		1									
AW-14 2-3	94				1									
AW-14 3-4	95				1									
AW-14 4-5	96				1									
AW-14 5-6	97				1									
AW-14 6-7	98				1									
AW-14 7-8	99				1									
AW-16 1-2	100		1400		1									
AW-16 2-3	101				1									

Friedman & Bryna, 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: <u>[Signature]</u>	<u>[Signature]</u>	<u>Li Medic</u>	<u>FIS</u>	<u>5/22/13</u>	<u>1600</u>						
Received by: <u>[Signature]</u>	<u>[Signature]</u>	<u>David</u>	<u>F&B</u>	<u>"</u>	<u>"</u>						
Relinquished by: _____	_____	_____	_____	_____	_____						
Received by: _____	_____	_____	_____	_____	_____						

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

Page # 11 of 12

BTG

Send Report To Brett Brumler

Company F15

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature)		PROJECT NAME/NO.	PO#
<u>[Signature]</u>		<u>off tm 125</u>	
REMARKS			
<u>Archive per pg. 1</u>			

TURNAROUND TIME	SAMPLE DISPOSAL
<input type="checkbox"/> Standard (2 weeks)	<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> RUSH	<input type="checkbox"/> Return samples
Rush charges authorized by _____	
<input type="checkbox"/> 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							
AV-16 3-4	102	5/22/13	1400	soil	1													
AV-16 4-5	103				1													
AV-16 5-6	104				1													
AV-16 6-7	105				1													
AV-16 7-8	106				1													
AV-15 1-2	107		1350		1													
AV-15 2-3	108				1													
AV-15 3-4	109				1													
AV-15 4-5	110				1													
AV-15 5-6	111				1													

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
<u>[Signature]</u>		<u>L. Meale</u>		<u>F15</u>		<u>5/22/13</u>		<u>1600</u>	
Received by: <u>[Signature]</u>		<u>DA rd</u>		<u>F15</u>		<u>"</u>		<u>"</u>	
Relinquished by: <u>[Signature]</u>		<u>[Signature]</u>		<u>F15</u>		<u>"</u>		<u>"</u>	
Received by: _____		_____		_____		_____		_____	

305440

SAMPLE CHAIN OF CUSTODY

ME 05722/13

Page # 12 of 12

Send Report To Print Results
 Company PLS
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

SAMPLERS (signature) _____
 PROJECT NAME/NO. _____ PO# _____
 REMARKS
Botl on 1525
Archive per pg. 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					
AV-16 6-7	112	5/24/13	1350	Soil	1											
AV-16 7-8	113	↓	↓	↓	1											
AV-11-2-3 Duplicate	114	5/24	1335	Soil	1											* added 5/24/13

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

SIGNATURE
 Relinquished by: Megan
 Received by: Lisa Meek
 Relinquished by: PLS
 Received by: PLS

PRINT NAME
Lisa Meek
PLS

COMPANY
PLS
PLS

DATE
5/24/13
" "

TIME
noon
" "

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 3, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on May 22, 2013 from the B+L O+M 1525, F&BI 305440 project. There are 18 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0703R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 22, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M 1525, F&BI 305440 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -01	AV-1 1-2
305440 -02	AV-1 2-3
305440 -03	AV-1 3-4
305440 -04	AV-1 4-5
305440 -05	AV-1 5-6
305440 -06	AV-1 6-7
305440 -07	AV-1 7-8
305440 -08	AV-2 1-2
305440 -09	AV-2 2-3
305440 -10	AV-2 3-4
305440 -11	AV-2 4-5
305440 -12	AV-2 5-6
305440 -13	AV-2 6-7
305440 -14	AV-2 7-8
305440 -15	AV-3 1-2
305440 -16	AV-3 2-3
305440 -17	AV-3 3-4
305440 -18	AV-3 4-5
305440 -19	AV-3 5-6
305440 -20	AV-3 6-7
305440 -21	AV-3 7-8
305440 -22	AV-4 1-2
305440 -23	AV-4 2-3
305440 -24	AV-4 3-4
305440 -25	AV-4 4-5
305440 -26	AV-4 5-6
305440 -27	AV-4 6-7
305440 -28	AV-4 7-8
305440 -29	AV-5 1-2
305440 -30	AV-5 2-3
305440 -31	AV-5 3-4
305440 -32	AV-5 4-5
305440 -33	AV-5 5-6
305440 -34	AV-5 6-7
305440 -35	AV-5 7-8
305440 -36	AV-6 1-2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -37	AV-6 2-3
305440 -38	AV-6 3-4
305440 -39	AV-6 4-5
305440 -40	AV-6 5-6
305440 -41	AV-6 6-7
305440 -42	AV-6 7-8
305440 -43	AV-7 1-2
305440 -44	AV-7 2-3
305440 -45	AV-7 3-4
305440 -46	AV-7 4-5
305440 -47	AV-7 5-6
305440 -48	AV-7 6-7
305440 -49	AV-7 7-8
305440 -50	AV-8 1-2
305440 -51	AV-8 2-3
305440 -52	AV-8 3-4
305440 -53	AV-8 4-5
305440 -54	AV-8 5-6
305440 -55	AV-8 6-7
305440 -56	AV-8 7-8
305440 -57	AV-9 1-2
305440 -58	AV-9 2-3
305440 -59	AV-9 2-3 Duplicate
305440 -60	AV-9 3-4
305440 -61	AV-9 4-5
305440 -62	AV-9 5-6
305440 -63	AV-9 6-7
305440 -64	AV-9 7-8
305440 -65	AV-10 1-2
305440 -66	AV-10 2-3
305440 -67	AV-10 3-4
305440 -68	AV-10 4-5
305440 -69	AV-10 5-6
305440 -70	AV-10 5-6 Duplicate
305440 -71	AV-10 6-7
305440 -72	AV-10 7-8
305440 -73	AV-11 1-2
305440 -74	AV-11 2-3
305440 -75	AV-11 3-4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305440 -76	AV-11 5-6
305440 -77	AV-11 6-7
305440 -78	AV-11 7-8
305440 -79	AV-12 1-2
305440 -80	AV-12 2-3
305440 -81	AV-12 3-4
305440 -82	AV-12 4-5
305440 -83	AV-12 5-6
305440 -84	AV-12 6-7
305440 -85	AV-12 7-8
305440 -86	AV-13 1-2
305440 -87	AV-13 2-3
305440 -88	AV-13 3-4
305440 -89	AV-13 4-5
305440 -90	AV-13 5-6
305440 -91	AV-13 6-7
305440 -92	AV-13 7-8
305440 -93	AV-14 1-2
305440 -94	AV-14 2-3
305440 -95	AV-14 3-4
305440 -96	AV-14 4-5
305440 -97	AV-14 5-6
305440 -98	AV-14 6-7
305440 -99	AV-14 7-8
305440 -100	AV-16 1-2
305440 -101	AV-16 2-3
305440 -102	AV-16 3-4
305440 -103	AV-16 4-5
305440 -104	AV-16 5-6
305440 -105	AV-16 6-7
305440 -106	AV-16 7-8
305440 -107	AV-15 1-2
305440 -108	AV-15 2-3
305440 -109	AV-15 3-4
305440 -110	AV-15 4-5
305440 -111	AV-15 5-6
305440 -112	AV-15 6-7
305440 -113	AV-15 7-8
305440 -114	AV-11-2-3 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-4 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-28
Date Analyzed:	07/02/13	Data File:	305440-28.056
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	94	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	8.41

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-5 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-34
Date Analyzed:	07/02/13	Data File:	305440-34.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	109

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-5 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-35
Date Analyzed:	07/02/13	Data File:	305440-35.058
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	16.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-6 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-42
Date Analyzed:	07/02/13	Data File:	305440-42.059
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	52.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-7 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-48
Date Analyzed:	07/02/13	Data File:	305440-48.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	83	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	278

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-7 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-49
Date Analyzed:	07/02/13	Data File:	305440-49.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	85	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	36.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-10 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-72
Date Analyzed:	07/02/13	Data File:	305440-72.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	20.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-13 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-91
Date Analyzed:	07/02/13	Data File:	305440-91.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	91	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	62.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-13 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-92
Date Analyzed:	07/02/13	Data File:	305440-92.065
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	86	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	18.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-14 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-99
Date Analyzed:	07/02/13	Data File:	305440-99.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	99.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-15 6-7	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-112
Date Analyzed:	07/02/13	Data File:	305440-112.067
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	33.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-15 7-8	Client:	Floyd/Snider
Date Received:	05/22/13	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	305440-113
Date Analyzed:	07/02/13	Data File:	305440-113.068
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	86	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	294

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M 1525, F&BI 305440
Date Extracted:	07/02/13	Lab ID:	I3-398 mb
Date Analyzed:	07/02/13	Data File:	I3-398 mb.043
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	88	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/13

Date Received: 05/22/13

Project: B+L O+M 1525, F&BI 305440

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

Laboratory Code: 306511-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<1	104	99	70-118	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	99	83-113

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.

305440

SAMPLE CHAIN OF CUSTODY NE 05/22/13

BTY

Send Report To BOEYT RECEIVED

Company FRANCO/SONDER

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

Page # 2 of 11

TURNAROUND TIME
Standard (2 weeks)

Rush charges authorized by _____

SAMPLE DISPOSAL

Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) <u>[Signature]</u>	PO#
PROJECT NAME/NO. <u>Bit 07M 1525</u>	
REMARKS <u>PLASTE ARCHIVE SAMPLES NOT SELECTED</u>	

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		TOTAL AS	
AV-2 4-5	11	5/22/13	9:20	Soil	1									
AV-2 5-6	12		9:25								X			
AV-2 6-7	13		9:30								X			
AV-2 7-8	14		9:35								O			
AV-3 1-2	15		9:40											
AV-3 2-3	16		9:45								X			
AV-3 3-4	17		9:50								X			
AV-3 4-5	18		9:55								X			
AV-3 5-6	19		10:00								X			
AV-3 6-7	20		10:05								O			

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Fax (206) 283-5044
FORASTOCOCDOC

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
<u>[Signature]</u>		<u>Lisa Neale</u>		<u>F/S</u>		<u>5/23/13</u>		<u>10:00</u>	
Received by: <u>[Signature]</u>		<u>DL</u>		<u>FR</u>		<u>11</u>			
Released by:									

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

BTY 12

Send Report To BADET SEATTLE

Company ELON DISINTEGR

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

SAMPLERS (signature) [Signature]
PROJECT NAME/NO. _____
PO# _____

REMARKS
PLASTIC ACTIVE SANDS NOT SERVICED

Page # 3 of 12
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		TOTAL AS		
AV3 7-8	21	5/22/13	1010	SPIC	1										
AV-4 1-2	22		1015												
AV-4 2-3	23		1020												
AV-4 3-4	24		1025												
AV-4 4-5	25		1030												
AV-4 5-6	26		1035												
AV-4 6-7	27		1040												
AV-4 7-8	28		1045												
AV-5 1-2	29		1050												
AV-5 2-3	30		1055												

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Signature	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Lisa Nicole</u>	<u>EIS</u>	<u>5/22/13</u>	<u>1000</u>
Received by:				
<u>[Signature]</u>	<u>Dale</u>	<u>FR82</u>	<u>"</u>	<u>"</u>
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

NE 0572a/13

Send Report To BRETT SEARLES

Company FEDERAL SERVICE

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

Page # 4 of 14 BT

SAMPLERS (signature) <u>[Signature]</u>		PO#
PROJECT NAME/NO.	BTL OWN 1526	
REMARKS		

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		TOTAL AS
AV-5 3-4	31	5/22/13	1100	Soil	1							*	
AV 5 4-C	32		1105										
AV 5 5-6	33		1110									X	
AV 5 6-7	34		1115									*	
AV 5 7-8	35		1120									*	
AV 6 1-2	36		1125										
AV 6 2-3	37		1130									X	
AV 6 3-4	38		1135										
AV 6 4-5	39		1140										
AV 6 5-6	40		1145									X	

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Requested by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: _____		Lisa Neek	PS	5/22/13	16:00
Relinquished by: _____		DA CD	FEDERAL	"	"
Received by: _____					

305040

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

BTY

Send Report To BAERT SEAWIEW

Company ECHO SWIMMER

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BTL DNR 1525

PO# _____

REMARKS
RE THE ABOVE SAMPLES NOT SELECTED

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

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

ANALYSES REQUESTED

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		TOTAL TS		
AV-6 6-7	41	5/22/13	1150	Soil	1										
AV-6 7-8	42		1155												
AV-7 1-2	43		1200												
AV-7 2-3	44		1205												
AV-7 3-4	45		1210												
AV-7 4-5	46		1215												
AV-7 5-6	47		1220												
AV-7 6-7	48		1225												
AV-7 7-8	49		1230												
AV-8 1-2	50		1235												

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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Received by: <u>[Signature]</u>		<u>Lisa Neola</u>		<u>FS</u>		<u>5/22/13</u>	<u>1600</u>
Relinquished by: <u>[Signature]</u>		<u>DA CO</u>		<u>FS</u>		<u>11</u>	<u>11</u>
Received by: _____							

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

RTY

Send Report To Robert Semler

Company FLONDISON

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____

PROJECT NAME/NO. _____

8410 NW 1525

REMARKS PLEASE ARCHIVE

PO#

Page # 6 of 12

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

ANALYSES REQUESTED

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	HPS		TWAL AS	TCLP AS	
AV-B 2-3	51	5/22/13	1240	Soil	1							X			
AV-B 3-4	52		1245												
AV-B 4-5	53		1250												
AV-B 5-6	54		1255									X			
AV-B 6-7	55		1300									X			
AV-B 7-8	56		1305									O			
AV-9 1-2	57		1400												
AV-9 2-3	58		1200												AV-9 2-3
AV-9 3-4	59		1200												AV-9 3-4
AV-9 4-5	60		1200												

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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Received by: _____	_____	Yixi Wu	PLS	5/21/13	11		
Relinquished by: _____	_____	DD	PLS	5/21/13	11		
Received by: _____	_____						

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

Send Report To WEST STRUCTURE

Company FLOYD SUIDER

Address _____

City, State, ZIP _____

Phone # _____

Fax # _____

Page # 7 of 12 B24

SAMPLERS (signature)	PO#
PROJECT NAME/NO. <u>ENV DRAIN 1505</u>	
REMARKS <u>PLATES ABOVE</u>	

TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by _____	SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> 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	TPH AS	
AV-9 5-6	62	5/22/13	1200	Soil	1							X	
AV-9 6-7	63		1200										
AV-9 7-8	64		1200										
AV-10 1-2	65		1220										
AV-10 2-3	66		1220										
AV-10 3-4	67		1220									X	
AV-10 4-5	68		1220										
AV-10 5-6	69		1220									X	
AV-10 6-7	70		1220									X	
AV-10 7-8	71		1220									X	
AV-10 7-8	72		1220									X	

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Relinquished by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: _____		<u>Lisa Kralic</u>	<u>F/S</u>	<u>5/22/13</u>	<u>1:00</u>
Relinquished by: _____		<u>David</u>	<u>F/S</u>	<u>"</u>	<u>"</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

Page # 8 of 12

Send Report To Burt Beckler

Company Elyrd Swider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) <u>Mr. [Signature]</u>	PO#
PROJECT NAME/NO. <u>B+L 04 M 1525</u>	
REMARKS <u>Reactive per Pg. 1</u>	

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					
AV-11 1-2	73	5/22/13	13:35	SOIL	1											
AV-11 2-3	74				1											
AV-11 3-4	75				1											
AV-11 4-5	76				1											
AV-11 5-6	77				1											
AV-11 6-7	78				1											
AV-11 7-8	79				1											
AV-12 1-2	80		12:40		1											
AV-12 2-3	81				1											
AV-12 3-4					1											

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Received by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Lisa Kroll</u>	<u>FIS</u>	<u>5/22/13</u>	<u>1:00</u>
Relinquished by: <u>[Signature]</u>		<u>DN</u>	<u>FE 35</u>	<u>"</u>	<u>11</u>
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

Page # 9 of 12

Send Report to Brett Beal

Company ELS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) <u>Ma</u>	PO#
PROJECT NAME/NO. <u>B/L Ot M 1525</u>	
REMARKS <u>Archive per pg. 1</u>	

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			
AV-12 4-5	82	5/21/13	12:40	Soil	1							X		
AV-12 5-4	83				1							X		
AV-12 6-7	84				1							X		
AV-12 7-8	85				1							X		
AV-13 1-2	86		13:10		1							X		
AV-13 2-3	87				1							X		
AV-13 3-4	88				1							X		
AV-13 4-5	89				1							X		
AV-13 5-6	90				1							X		
AV-13 6-7	91				1							X		

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 Fax (206) 283-5044
 FORMS\CCG\CCDOC

Relinquished by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>L. Nicolli</u>		<u>L. Nicolli</u>	<u>FGS</u>	<u>5/21/13</u>	<u>1600</u>
Relinquished by: _____					
Received by: _____					

305440

SAMPLE CHAIN OF CUSTODY

NE 05/22/13

10 of 12 BTY

Send Report To Brett Bravlin
 Company PLS
 Address _____
 City, State, ZIP _____
 Phone # _____ Fax # _____

SAMPLER (Signature) _____
 PROJECT NAME/NO. _____
 PO# _____
 REMARKS
btw own 1505
Archive per pg.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				
AV-13 7-8	92	5/21/13	13:10	SOIL	1										
AV-14 1-2	93		13:30		1										
AV-14 2-3	94				1										
AV-14 3-4	95				1										
AV-14 4-5	96				1										
AV-14 5-6	97				1										
AV-14 6-7	98				1										
AV-14 7-8	99				1										
AV-16 1-2	100		1400		1										
AV-16 2-3	101				1										

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 Seattle, WA 98119-2029
 Ph (206) 285-8282
 Fax (206) 283-5044
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SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Received by: <u>[Signature]</u>		<u>Li Meili</u>		<u>PLS</u>		<u>5/22/13</u>	<u>1600</u>
Relinquished by: <u>[Signature]</u>		<u>David</u>		<u>FESE</u>		"	"
Received by:							

305440

SAMPLE CHAIN OF CUSTODY ME 05/22/13

Send Report To Brett Brumler

Company FIS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

Page # 1 of 12 BTG

SAMPLERS (signature)	PO#
PROJECT NAME/NO. <u>off tm 1025</u>	
REMARKS <u>Archive per pg. 1</u>	

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			
AV-16 3-4	102	5/21/13	1700	soil	1									
AV-16 4-5	103				1									
AV-16 5-6	104				1									
AV-16 6-7	105				1									
AV-16 7-8	106				1									
AV-15 1-2	107		1350		1									
AV-15 2-3	108				1									
AV-15 3-4	109				1									
AV-15 4-5	110				1									
AV-15 5-10	111				1									

Friedman & Bryna, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph (206) 285-8282
 Fax (206) 283-5044
 FORMS000C00C.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>L. Meolic</u>	<u>FIS</u>	<u>5/22/13</u>	<u>1600</u>
Received by:				
Relinquished by:	<u>DA rd</u>	<u>FIS</u>		
Received by:				

305440

SAMPLE CHAIN OF CUSTODY

ME 05/22/13

Page # 12 of 12

Send Report To Prest Beckler

Company PLS

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature)	PROJECT NAME/NO.	PO#
<u>Prest Beckler</u>	<u>Btl CRM 1525</u>	
REMARKS		
<u>Archive per pg. 1</u>		

TURNAROUND TIME	SAMPLE DISPOSAL
<input type="checkbox"/> Standard (2 weeks)	<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> RUSH	<input type="checkbox"/> Return samples
Resh charges authorized by _____	<input type="checkbox"/> 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		
<u>AV-16 6-7</u>	<u>112</u>	<u>5/22/13</u>	<u>1350</u>	<u>Soil</u>	<u># 1</u>								
<u>AV-16 7-8</u>	<u>113</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1</u>								
<u>AV-11-2-3 Duplicate</u>	<u>114</u>	<u>5/22</u>	<u>1335</u>	<u>Soil</u>	<u>1</u>								<u>* Added 5/22/13</u>

Friedman & Bryoz, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS000000000000000000

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>		<u>Lisa Neeli</u>		<u>PLS</u>		<u>5/22/13</u>	<u>11:00</u>
Received by:		Received by:		Received by:			
<u>[Signature]</u>		<u>[Signature]</u>		<u>[Signature]</u>			
Redesignated by:		Redesignated by:		Redesignated by:			
<u>[Signature]</u>		<u>[Signature]</u>		<u>[Signature]</u>			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 3, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on June 10, 2013 from the B+L O+M t-1525, F&BI 306149 project. There are 14 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0703R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L O+M t-1525, F&BI 306149 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-01	AV-17 (3-4)
306149-02	AV-17 (4-5)
306149-03	AV-17 (5-6)
306149-04	AV-17 (6-7)
306149-05	AV-17 (7-8)
306149-06	AV-18 (3-4)
306149-07	AV-18 (4-5)
306149-08	AV-18 (5-6)
306149-09	AV-18 (6-7)
306149-10	AV-18 (7-8)
306149-11	AV-2-GW (6-10)
306149-12	AV-19 (3-4)
306149-13	AV-19 (4-5)
306149-14	AV-19 (5-6)
306149-15	AV-19 (5-6) Dup
306149-16	AV-19 (6-7)
306149-17	AV-19 (7-8)
306149-18	AV-19-GW (4-8)
306149-19	AV-20 (3-4)
306149-20	AV-20 (3-4) Dup
306149-21	AV-20 (4-5)
306149-22	AV-20 (5-6)
306149-23	AV-20 (6-7)
306149-24	AV-20 (7-8)
306149-25	AV-21 (3-4)
306149-26	AV-21 (4-5)
306149-27	AV-21 (5-6)
306149-28	AV-21 (6-7)
306149-29	AV-21 (7-8)
306149-30	AV-22 (3-4)
306149-31	AV-22 (4-5)
306149-32	AV-22 (5-6)
306149-33	AV-13-GW (7-11)
306149-34	AV-22 (6-7)
306149-35	AV-22 (7-8)
306149-36	AV-23 (3-4)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-37	AV-23 (4-5)
306149-38	AV-23 (5-6)
306149-39	AV-23 (5-6) DUP
306149-40	AV-23 (6-7)
306149-41	AV-23 (7-8)
306149-42	AV-24 (3-4)
306149-43	AV-24 (4-5)
306149-44	AV-24 (5-6)
306149-45	AV-24 (6-7)
306149-46	AV-24 (7-8)
306149-47	AV-25 (3-4)
306149-48	AV-25 (3-4) DUP
306149-49	AV-25 (4-5)
306149-50	AV-25 (5-6)
306149-51	AV-25 (6-7)
306149-52	AV-25 (7-8)
306149-53	AV-26 (3-4)
306149-54	AV-26 (3-4) DUP
306149-55	AV-26 (4-5)
306149-56	AV-26 (5-6)
306149-57	AV-26 (6-7)
306149-58	AV-26 (7-8)
306149-59	AV-27 (3-4)
306149-60	AV-27 (4-5)
306149-61	AV-27 (5-6)
306149-62	AV-27 (6-7)
306149-63	AV-27 (7-8)
306149-64	AV-28 (3-4)
306149-65	AV-28 (4-5)
306149-66	AV-28 (5-6)
306149-67	AV-28 (6-7)
306149-68	AV-28 (7-8)
306149-69	AV-29 (3-4)
306149-70	AV-29 (4-5)
306149-71	AV-29 (5-6)
306149-72	AV-29 (6-7)
306149-73	AV-29 (7-8)
306149-74	AV-30 (3-4)
306149-75	AV-30 (4-5)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
306149-76	AV-30 (5-6)
306149-77	AV-30 (5-6) DUP
306149-78	AV-30 (6-7)
306149-79	AV-30 (7-8)
306149-80	AV-31-GW (1-5)
306149-81	AV-32 (3-4)
306149-82	AV-32 (3-4) DUP
306149-83	AV-32 (4-5)
306149-84	AV-32 (5-6)
306149-85	AV-32 (6-7)
306149-86	AV-32 (7-8)
306149-87	WD-15 (0-1)
306149-88	WD-15 (1-2)
306149-89	WD-15 (2-3)
306149-90	WD-15 (2-3) DUP
306149-91	WD-15 (3-4)
306149-92	WD-15 (4-5)
306149-93	WD-16 (0-1)
306149-94	WD-16 (1-2)
306149-95	WD-16 (2-3)
306149-96	WD-16 (3-4)
306149-97	WD-16 (4-5)
306149-98	WD-17 (0-1)
306149-99	WD-17 (1-2)
306149-100	WD-17 (2-3)
306149-101	WD-17 (3-4)
306149-102	WD-17 (4-5)
306149-103	WD-18 (0-1)
306149-104	WD-18 (1-2)
306149-105	WD-18 (2-3)
306149-106	WD-18 (3-4)
306149-107	WD-18 (3-4) DUP
306149-108	WD-18 (4-5)

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-21 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-28
Date Analyzed:	07/01/13	Data File:	306149-28.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	36.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-23 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-40
Date Analyzed:	07/01/13	Data File:	306149-40.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

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

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	49.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-25 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-51
Date Analyzed:	07/01/13	Data File:	306149-51.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	36.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-26 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-57
Date Analyzed:	07/01/13	Data File:	306149-57.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	303

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-27 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-62
Date Analyzed:	07/01/13	Data File:	306149-62.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	34.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-27 (7-8)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-63
Date Analyzed:	07/01/13	Data File:	306149-63.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	95	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	80.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-30 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-78
Date Analyzed:	07/01/13	Data File:	306149-78.028
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	74.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	AV-32 (6-7)	Client:	Floyd/Snider
Date Received:	06/10/13	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	306149-85
Date Analyzed:	07/01/13	Data File:	306149-85.029
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	97	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	28.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L O+M t-1525, F&BI 306149
Date Extracted:	06/28/13	Lab ID:	I3-386 mb
Date Analyzed:	07/01/13	Data File:	I3-386 mb.014
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	95	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/13

Date Received: 06/10/13

Project: B+L O+M t-1525, F&BI 306149

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

Laboratory Code: 305469-56 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.09	104 b	108 b	70-118	4 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	98	83-113

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.

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BEY

Send Report To Bell Beutler

Company Elyd Smider

Address 601 Over St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. PTL 0+M

6-15-25

PO# [Signature]

REMARKS

Page # 1 of 1

TURNAROUND TIME

Standard (2 Weeks)
 RUSH 3 days
Rush charges authorized by BEB

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	Total As	HOLD						
AV-17 (3-4)	01	6/7/13	0950	soil	1									X					
AV-17 (4-5)	02		0952		1										X				
AV-17 (5-6)	03		0954		1									X					
AV-17 (6-7)	04		0956		1									X					
AV-17 (7-8)	05		0958		1									X					
AV-18 (3-4)	06		1020		1									X					
AV-18 (4-5)	07		1022		1									X					
AV-18 (5-6)	08		1024		1									X					
AV-18 (6-7)	09		1026		1									X					
AV-8 (7-8)	10		1028		1									X					

Friedman & Bryna, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS006000CDOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	Kashn Anderson	Kashn Anderson	Elyd Smider	6/10/13	1632	
<u>[Signature]</u>	<u>[Signature]</u>	Nhan Pham	Nhan Pham	EBI	6/10/13	1632	
Received by:							5
Relinquished by:							
Received by:							

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

Page # 2 of 1

Send Report To Bell Breaker
 Company Elgod Snyder
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98109
 Phone # 206-272-2078 Fax # 206-652-7887

SAMPLERS (signature) _____
 PROJECT NAME/NO. _____
 BTL ORL + 1525
 REMARKS _____
 PO# _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 3-5 days
 Rush charges authorized by _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 We'll 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		Total As	Disc. As	HOLD			
AV-2-GW (6-10)	11	0725	5:13	GW	1													
AV-19 (3-4)	12	6/13	1100	Soil	1							X						
AV-19 (4-5)	13		1102		1							X		X				
AV-19 (5-6)	14		1104		1							X						
AV-19 (5-6) DUP	15		1106		1							X						
AV-19 (6-7)	16		1108		1								X					
AV-19 (7-8)	17		1110		1									X				
AV-19-GW (4-8)	18		1115	GW	1								X					
AV-20 (3-4)	19		1130	Soil	1													
AV-20 (3-4) DUP	20		1132		1													

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

Relinquished by: _____	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: _____	_____	Erin Anderson	Elgod Snyder	6/10/13	1632
Relinquished by: _____	_____	Dawn Pham	FERB I	6/10/13	1632
Received by: _____	_____				

Samples received at _____ °C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

RTV

Send Report To Brett Benker

SAMPLERS (signature) [Signature]

[Signature]

Page # 3 of 1

TURNAROUND TIME

Company Floyd Snider

PROJECT NAME/NO. BrL 044 t.1525

PO#

Standard (2 weeks)
 SARUSH
Rush charges authorized by BR

Address 601 Union St, Ste 600

REMARKS

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

City, State, ZIP Seattle, WA 98101

Phone # 206-219-7078 Fax # 206-662-7867

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		Total As	HOLD	
AV-20 (4-5)	21	6/7/13	1134	soil	1							X			<u>6/23/13</u> EM
AV-20 (5-6)	22		1136		1							X			M4
AV-20 (6-7)	23		1138		1							X			
AV-20 (7-8)	24		1146		1							X			
AV-21 (3-4)	25		1210		1							X			
AV-21 (4-5)	26		1212		1							X			
AV-21 (5-6)	27		1214		1							X			
AV-21 (6-7)	28		1216		1							X			
AV-21 (7-8)	29		1218		1							X			
AV-22 (3-4)	30		1350		1							X			

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

Received by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Kash Anderson</u>	<u>Floyd Snider</u>	<u>6/10/13</u>	<u>1632</u>
Received by: <u>[Signature]</u>		<u>Shawn Shwan</u>	<u>F&B-T</u>	<u>6/10/13</u>	<u>1632</u>
Received by:					

Containers received at 5 qty

3060149

SAMPLE CHAIN OF CUSTODY

HE06-10-13

BZ4

Send Report To Rich Beaulieu

Company Floyd I Saylor

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2098 Fax # 206-882-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BZ4 OTH t-1525

PO#

Page # 4 of 11

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-day

Rush charges authorized by [Signature]

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

ANALYSES REQUESTED

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	Total As		Diss. As	Hold						
AU-22 (4-5)	31	6/7/13	1352	Soil	1									X							
AU-22 (5-6)	32		1354	Soil	1							X									X-pipes
AU-23 (7-11)	33		1355	GLW	1								X								4/11/13
AU-22 (6-7)	34		1356	Soil	1									X							OK
AU-22 (7-8)	35		1358		1										X						
AU-23 (3-4)	36		1320		1										X						
AU-23 (4-5)	37		1322		1										X						
AU-23 (5-6)	38		1324		1										X						
AU-23 (5-6) DUP	39		1326		1										X						
AU-23 (6-7)	40		1328		1										X						

Friedman & Bryon, 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: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME Kristin Anderson

COMPANY FBI

DATE TIME 6/10/13

PRINT NAME Shawn Pham

COMPANY FBI

DATE TIME 6/10/13

Comments received at 5 oc

306149

SAMPLE CHAIN OF CUSTODY ME 06-10-13

Page # 5 of 11

824

Send Report To Bell Services

Company Floyd Isntler

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. BTL Ory F-1525

PO#

REMARKS

TURNAROUND TIME

Standard (2 Weeks)

RUSH 3-0day

Rush charges subsidized by FRB

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		Total As		
AV-23 (7-8)	41	6/7/13	1330												
AV-24 (3-4)	42		1445									X			
AV-24 (4-5)	43		1447									X			
AV-24 (5-6)	44		1449									X			
AV-24 (6-7)	45		1451									X			
AV-24 (7-8)	46		1453									X			
AV-25 (3-4)	47		1420									X			
AV-25 (9-11) <u>DU</u>	48		1422									X			
AV-25 (4-5)	49		1424									X			
AV-25 (5-6)	50		1426									X			

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 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS000C00C.DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	<u>Kristin Anderson</u>	<u>Floyd Isntler</u>	<u>6/10/13</u>	<u>6:32</u>		
<u>[Signature]</u>	<u>[Signature]</u>	<u>Adrian Phelan</u>	<u>FRB</u>	<u>6/10/13</u>	<u>-</u>		
<u>[Signature]</u>	<u>[Signature]</u>			<u>5</u>	<u>-</u>		

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BZY

Send Report To Bell Beutler

Company Floyd Smith

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-652-7867

SAMPLERS (signature)

PROJECT NAME/NO.

BTL 0711 t. 1525

PO#

Page # 6 of 11

TURNAROUND TIME

Standard (3 Weeks)
 RUSH 3-4 days
Rush charges authorized by BS

SAMPLE DISPOSAL

Dispose after 30 days
 Return samples
 Will call with instructions

ANALYSES REQUESTED

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		Total				
AV-25 (6-7)	S1	6/7/13	1428	soil	1												
AV-25 (7-8)	S2		1430		1												
AV-26 (3-4)	S3		1534		1												
AV-26 (3-4) DUP	S4		1536		1												
AV-26 (4-5)	S5		1539		1												
AV-26 (5-6)	S6		1540		1												
AV-26 (6-7)	S7		1542		1												
AV-26 (7-8)	S8		1544		1												
AV-27 (3-4)	S9		1350		1												
AV-27 (4-5)	S0		1352		1												

Friedman & Brya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS000C00C.DOC

SIGNATURE

Requisitioned by: [Signature]

Received by: [Signature]

Requisitioned by: [Signature]

PRINT NAME

Kristin Anderson

Kristin Anderson

Kristin Anderson

COMPANY

Floyd Smith

Floyd Smith

Floyd Smith

DATE

6/10/13

6/10/13

6/10/13

TIME

1632

1632

1632

Received at: 5

°C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BIZ

Send Report To Bret Beutler

Company Floyd Snyder

Address 601 Union St, Ste 606

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-687-7667

SAMPLERS (signature)

PROJECT NAME/NO.

BRL DM E. 1525

PO#

REMARKS

Page # 7 of 11

TURNAROUND TIME

Standard (2 Weeks)
 RUSH 3-4 day
Rush charges authorized by BS

SAMPLE DISPOSAL

Dispose after 30 days
 Return samples
 BSVIII call with instructions

ANALYSES REQUESTED

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	Total As	HOLD						
AV-27 (5-6)	61	6/7/13	1354	Sol	1														
AV-27 (6-7)	62		1356		1														
AV-27 (7-8)	63	↓	1358		1														
AV-28 (3-4)	64	6/10/13	0903		1														
AV-28 (4-5)	65		0904		1														
AV-28 (5-6)	66		0906		1														
AV-28 (6-7)	67		0908		1														
AV-28 (7-8)	68		0916		1														
AV-29 (3-4)	69		0950		1														
AV-29 (4-5)	70	✓	0952	✓	1														

SIGNATURE

PRINT NAME

COMPANY

Friedman & Braye, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS000000C.DOC

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Kristin Anderson

Floyd Snyder

Shawn Pham

[Signature]

DATE 6/10/13

TIME 1632

Temperature received at 5 °C

Sampler received at 5 °C

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BY

Page # 2 of 11

Send Report To Brett Bedico
 Company Floyd Snider
 Address 601 Union St, Ste 600
 City, State, ZIP Seattle, WA 98101
 Phone # 206-292-2078 Fax # 206-682-7867

SAMPLERS (signature)	PO#
PROJECT NAME/NO.	
REMARKS	

TURNAROUND TIME	
Standard (2 Weeks)	
FAST (3-5 days)	
Rush charges apply <input checked="" type="checkbox"/> <u>BY</u>	
SAMPLE DISPOSAL	
<input type="checkbox"/> Standard after 30 days	
<input type="checkbox"/> Return samples	
<input checked="" type="checkbox"/> 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	Total As		HOLD	Dis	
AN-24 (5-6)	71	6/10/13	0954	20-1	1							X				
AN-24 (6-7)	72		0956		1							X				
AN-24 (7-8)	73		0958		1							X				
AN-30 (3-4)	74		0925		1							X				
AN-30 (4-5)	75		0927		1							X				
AN-30 (5-6)	76		0929		1							X				
AN-30 (5-6) DUP	77		0931		1							X				
AN-30 (6-7)	78		0933		1							X				
AN-30 (7-8)	79		0935		1							X				
AN-31-GW (1-5)	82		1050	GN	1							X				

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 3012 16th Avenue West
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 Ph. (206) 285-8282
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Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>		Kathleen Anderson	Floyd Snider	6/10/13	1632
Received by: <u>[Signature]</u>		Nhan Phan	FBI	6/10/13	1632
Received by:			samples received at:		

306149

SAMPLE CHAIN OF CUSTODY

ME 06-10-13

BEY

Send Report To Beth Brauker

Company Floyd Snider

Address 601 Union St Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-7676 Fax # 206-822-7867

SAMPLERS (signature) 

PROJECT NAME/NO. B-2 OTH t-1525

PO#

REMARKS

Page # 9 of 11

TURNAROUND TIME

Standard (2 weeks)
 RUSH 3-5 days

Rush charges authorized by BR

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

ANALYSES REQUESTED

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			
AW-32 (3-4)	81	6/10/13	1136	soil	1									
AW-32 (3-4) DUP	82		1132		1									
AW-32 (4-5)	83		1134		1									
AW-32 (5-6)	84		1136		1									
AW-32 (6-7)	85		1138		1									
AW-32 (7-8)	86		1140		1									
WD-15 (0-1)	87		1250		1									
WD-15 (1-2)	88		1252		1									
WD-15 (2-3)	89		1254		1									
WD-15 (2-3) DUP	90		1256		1									

Friedman & Bryna, Inc.



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Fax (206) 283-5044

FORMS/COC/COC/DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
		<u>Kash Anderson</u>		<u>Floyd Snider</u>		<u>6/10/13</u>	<u>1632</u>
		<u>Nhan Phan</u>		<u>FBI</u>		<u>6/10/13</u>	<u>1632</u>
Received by:						<u>5</u>	
Relinquished by:							
Received by:							

306149

SAMPLE CHAIN OF CUSTODY HE 06-10-13

BZY

Send Report To Beth Reuter

Company Eloyd Smith

Address 601 Union St, Ste 600

City, State, ZIP Seattle, WA 98101

Phone # 206-292-2078 Fax # 206-682-7867

Page # 10 of 11

TURNAROUND TIME

Standard (2 weeks)

RUSH 3-day

Rush charges authorized by ERS

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLERS (signature)	<u>[Signature]</u>
PROJECT NAME/NO.	<u>BTL GYM f. 1525</u>
PO#	
REMARKS	

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		Total As	Hold	
WD-15 (3-4)	91	6/10/13	1258	soil	1							X			
WD-15 (4-5)	92		1300		1							X			
WD-16 (0-1)	93		1306		1							X			
WD-16 (1-2)	94		1308		1							X			
WD-16 (2-3)	95		1310		1							X			
WD-16 (3-4)	96		1312		1							X			
WD-16 (4-5)	97		1314		1							X			
WD-17 (0-1)	98		1320		1							X			
WD-17 (1-2)	99		1322		1							X			
WD-17 (2-3)	100		1324		1							X			

Friedman & Bryga, Inc.
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 Seattle, WA 98119-2029
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 Fax (206) 283-5044
 FORNASCO/COC/DOC

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>[Signature]</u>	<u>[Signature]</u>	Kristin Anderson	Eloyd Smith	6/10/13	1632		
<u>[Signature]</u>	<u>[Signature]</u>	Olson Phelan	FCBI	6/10/13	1632		
Received by:							

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 3, 2013

Brett Beaulieu, Project Manager
Floyd/Snider
Two Union Square, Suite 600
601 Union St
Seattle, WA 98101

Dear Mr. Beaulieu:

Included are the additional results from the testing of material submitted on May 23, 2013 from the B+L RIM O+M 1525, F&BI 305469 project. There are 8 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.



Michael Erdahl
Project Manager

Enclosures
c: Erin Murray
FDS0703R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 23, 2013 by Friedman & Bruya, Inc. from the Floyd/Snider B+L Rim O+M 1525, F&BI 305469 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305469-01	WD-1 1-2
305469-02	WD-1 2-3
305469-03	WD-1 3-4
305469-04	WD-1 4-5
305469-05	WD-2 1-2
305469-06	WD-2 2-3
305469-07	WD-2 3-4
305469-08	WD-2 4-5
305469-09	WD-3 1-2
305469-10	WD-3 2-3
305469-11	WD-3 3-4
305469-12	WD-3 4-5
305469-13	WD-4 1-2
305469-14	WD-4 2-3
305469-15	WD-4 3-4
305469-16	WD-4 4-5
305469-17	WD-5 1-2
305469-18	WD-5 2-3
305469-19	WD-5 3-4
305469-20	WD-5 4-5
305469-21	WD-6 1-2
305469-22	WD-6 2-3
305469-23	WD-6 3-4
305469-24	WD-6 4-5
305469-25	WD-7 1-2
305469-26	WD-7 2-3
305469-27	WD-7 3-4
305469-28	WD-7 4-5
305469-29	WD-8 1-2
305469-30	WD-8 2-3
305469-31	WD-8 3-4
305469-32	WD-8 4-5
305469-33	WD-9 1-2
305469-34	WD-9 2-3
305469-35	WD-9 3-4
305469-36	WD-9 4-5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Floyd/Snider</u>
305469-37	WD-10 1-2
305469-38	WD-10 2-3
305469-39	WD-10 3-4
305469-40	WD-10 4-5
305469-41	WD-11 1-2
305469-42	WD-11 2-3
305469-43	WD-11 3-4
305469-44	WD-11 4-5
305469-45	WD-12 1-2
305469-46	WD-12 2-3
305469-47	WD-12 3-4
305469-48	WD-12 4-5
305469-49	WD-13 1-2
305469-50	WD-13 2-3
305469-51	WD-13 3-4
305469-52	WD-13 4-5
305469-53	WD-14 1-2
305469-54	WD-14 2-3
305469-55	WD-14 3-4
305469-56	WD-14 4-5
305469-57	WD-1 3-4 Duplicate
305469-58	WD-2 2-3 Duplicate
305469-59	WD-5 1-2 Duplicate
305469-60	WD-6 3-4 Duplicate
305469-61	WD-8 1-2 Duplicate

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-3 4-5	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L RIM O+M 1525, F&BI 305469
Date Extracted:	06/28/13	Lab ID:	305469-12
Date Analyzed:	07/01/13	Data File:	305469-12.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	93	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	4.84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-7 4-5	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L RIM O+M 1525, F&BI 305469
Date Extracted:	06/28/13	Lab ID:	305469-28
Date Analyzed:	07/01/13	Data File:	305469-28.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	94	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	5.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	WD-14 4-5	Client:	Floyd/Snider
Date Received:	05/23/13	Project:	B+L RIM O+M 1525, F&BI 305469
Date Extracted:	06/28/13	Lab ID:	305469-56
Date Analyzed:	07/01/13	Data File:	305469-56.016
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	95	Limit:	Limit:
		60	125

Analyte:	Concentration
	mg/kg (ppm)
Arsenic	7.34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Floyd/Snider
Date Received:	Not Applicable	Project:	B+L RIM O+M 1525, F&BI 305469
Date Extracted:	06/28/13	Lab ID:	I3-386 mb
Date Analyzed:	07/01/13	Data File:	I3-386 mb.014
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower	Upper
Indium	95	Limit:	Limit:
		60	125

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/13

Date Received: 05/23/13

Project: B+L RIM O+M 1525, F&BI 305469

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

Laboratory Code: 305469-56 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.09	104 b	108 b	70-118	4 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	98	83-113

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.

805469

SAMPLE CHAIN OF CUSTODY

ME 05/23/13

BY

Send Report To Brett Beau lieu

Company Meyer Smider

Address 600 Union St E01

City, State, ZIP Seattle, WA 98101

Phone # 206-242-2078 Fax # _____

SAM HFS (signature)

PROJECT NAME/NO. _____

PO# _____

REMARKS

all new 1525
reactive 4-5' interval only

Page # 1 of 2

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
WD-1 1-2	01	5/23/13	1030	soil	1						X	
WD-1 2-3	02		1030								X	
WD-1 3-4	03		1030								X	
WD-1 4-5	04		1030								X	
WD-2 1-2	05		1035								X	
WD-2 2-3	06		1035								X	
WD-2 3-4	07		1035								X	
WD-2 4-5	08		1035								X	
WD-3 1-2	09		1040								X	
WD-3 2-3	10		1040								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>	Lisa	Medic	FHS	5/23/13	1405	
<u>[Signature]</u>	<u>[Signature]</u>	Jessie	Bruya	F&B	5/23/13	1405	

Received by: _____

Received by: _____

305-469

SAMPLE CHAIN OF CUSTODY

ME 0512343

BY

Send Report To Brett Beaulieu

Company Floyd Swider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

~~SAVING~~ (signature)

PROJECT NAME/NO. Butt on 1525

PO#

REMARKS

Archive 4-5 Interval only

Page # 2 of 2

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				
WD-3 3-4	11	5/23/13	1040	Soil	1										
WD-3 4-5	12		↓												
WD-4 1-2	13		1045												
WD-4 2-3	14														
WD-4 3-4	15														
WD-4 4-5	16		↓												
WD-5 1-2	17		1050												
WD-5 2-3	18														
WD-5 3-4	19														
WD-5 4-5	20														

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Relinquished by: [Signature]

Received by: [Signature]

Lisa Morr

AS

5/23/13 1405

James Byers

F&B

5/23/13 1405

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

305469

SAMPLE CHAIN OF CUSTODY

ME 05123/13

Page # 3 of 4 BTY

Send Report To Port Authority

Company Kroyd Snedden

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLES (signature)

PROJECT NAME/NO. B+C SWM

PO#

14925

REMARKS

Archive 4-5' interval only

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			
WD-6 1-2	21	7/23/13	1055	Soil	1									
WD-6 2-3	22													
WD-6 3-4	23													
WD-6 4-5	24													
WD-7 1-2	25													
WD-7 2-3	26													
WD-7 3-4	27													
WD-7 4-5	28													
WD-8 1-2	29													
WD-8 2-3	30													

\$amples received at 15 °C

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by: [Signature]

PRINT NAME: Yisa Nozli

COMPANY: FLS

DATE: 5/23/13

TIME: 1405

Received by:

PRINT NAME: Tavis Brys

COMPANY: FLB

DATE: 5/23/13

TIME: 1405

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
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305969

SAMPLE CHAIN OF CUSTODY

ME 05b3/13

Page # 4 of 4

BT4

Send Report To Bret Beaulieu

Company Floyd Snider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLES (signature)

PROJECT NAME/NO.

Btc DM 1525

PO#

REMARKS

Archive 45' interval only

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
WD-8 3-4	31	5/29/13	1105	Soil	1						X	
WD-8 4-5	32		↓								X	
WD-9 1-2	33		1200								X	
WD-9 2-3	34										X	
WD-9 3-4	35										X	
WD-9 4-5	36		↓								X	
WD-10 1-2	37		1205								X	
WD-10 2-3	38										X	
WD-10 3-4	39										X	
WD-10 4-5	40		↓								X	

SIGNATURE

Received by: [Signature]

PRINT NAME

Lisa Meoli

COMPANY

F15

DATE

5/29/13

TIME

1405

Received by: [Signature]

Takes Brys

F3B

5/29/13 1405

Received by:

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

305469

SAMPLE CHAIN OF CUSTODY ME 05/23/13

Page # 5 of 4 BTY

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Send Report To Brett Beaulieu

Company Clayd Snider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____
PROJECT NAME/NO. ATL atm 1525 PO# _____

REMARKS

Archive 4-5' interval only

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			
WD-11 1-2	41	5/23/13	1210	soil	1									
WD-11 2-3	42													
WD-11 3-4	43													
WD-11 4-5	44													
WD-12 1-2	45		1200											
WD-12 2-3	46													
WD-12 3-4	47													
WD-12 4-5	48													
WD-13 1-2	47		1225											
WD-13 2-3	50													

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by: [Signature]

Received by: [Signature]

Lisa Mehl

Travis Blyer

PLS

F#B

5/23/13

5/23/13

1405

1405

Samples received at 15 °C

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

305469

SAMPLE CHAIN OF CUSTODY ME 05723/13

Page # 6 of 7

BY

Send Report To Proct Bealinc

Company Playd Snider

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLE SIGNATURE

PROJECT NAME/NO. Port DM 1525

PO#

REMARKS

Archive 4-5' intervals only

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		
WD-13 3-4	57	5/23/13	1005	soil	1						X		
WD-13 4-5	57		↓								X		
WD-14 1-2	53		1230								X		
WD-14 2-3	54										X		
WD-14 3-4	55										X		
WD-14 4-5	56		↓								X		
WD-1 3-4 Duplicate	57		1030								X		
WD-2 8-3 Duplicate	58		1035								X		
WD-5 1-2 Duplicate	59		1050								X		
WD-6 3-4 Duplicate	60		1055								X		

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: _____

Received by: _____

Lisa Wood

AS

5/23/13 1405

Relinquished by: _____

James Boyd

FRB

5/23/13 1405

Received by: _____

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS/COC/COC1.DOC

Attachment 2
Boring Logs

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701570.59
Longitude/Easting: 1186405.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Brett Beaulieu
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 5

Client: B&L Trust
Project: B&L-O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	--

				0	ML	Light brown sandy SILT and gravel, dry.
		AV-1 (1-2')		1		
		AV-1 (2-3')		2		
		AV-1 (3-4')		3	SM	Grades to medium brown, fine silty SAND, organics (roots, etc.), moist.
		AV-1 (4-5')		4		
		AV-1 (5-6')		5		Grey, silty SAND, wet.
		AV-1 (6-7')		6		
		AV-1 (7-8')		7		
				8		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83	Drill Date: May 22, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Brett Beaulieu	Project: B&L-O&M
Latitude/Northing: 701575.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186402.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): 5	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUEENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

		AV-2 (1-2')			ML	Light brown SILT with sand and gravel, roots, dry.
		AV-2 (2-3')			OL	Dark brown, organic rich, organic silt.
		AV-2 (3-4')				
		AV-2 (4-5')				
		AV-2 (5-6')			SM	Grey, silty SAND, fine, wet.
		AV-2 (6-7')				
		AV-2 (7-8')				

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

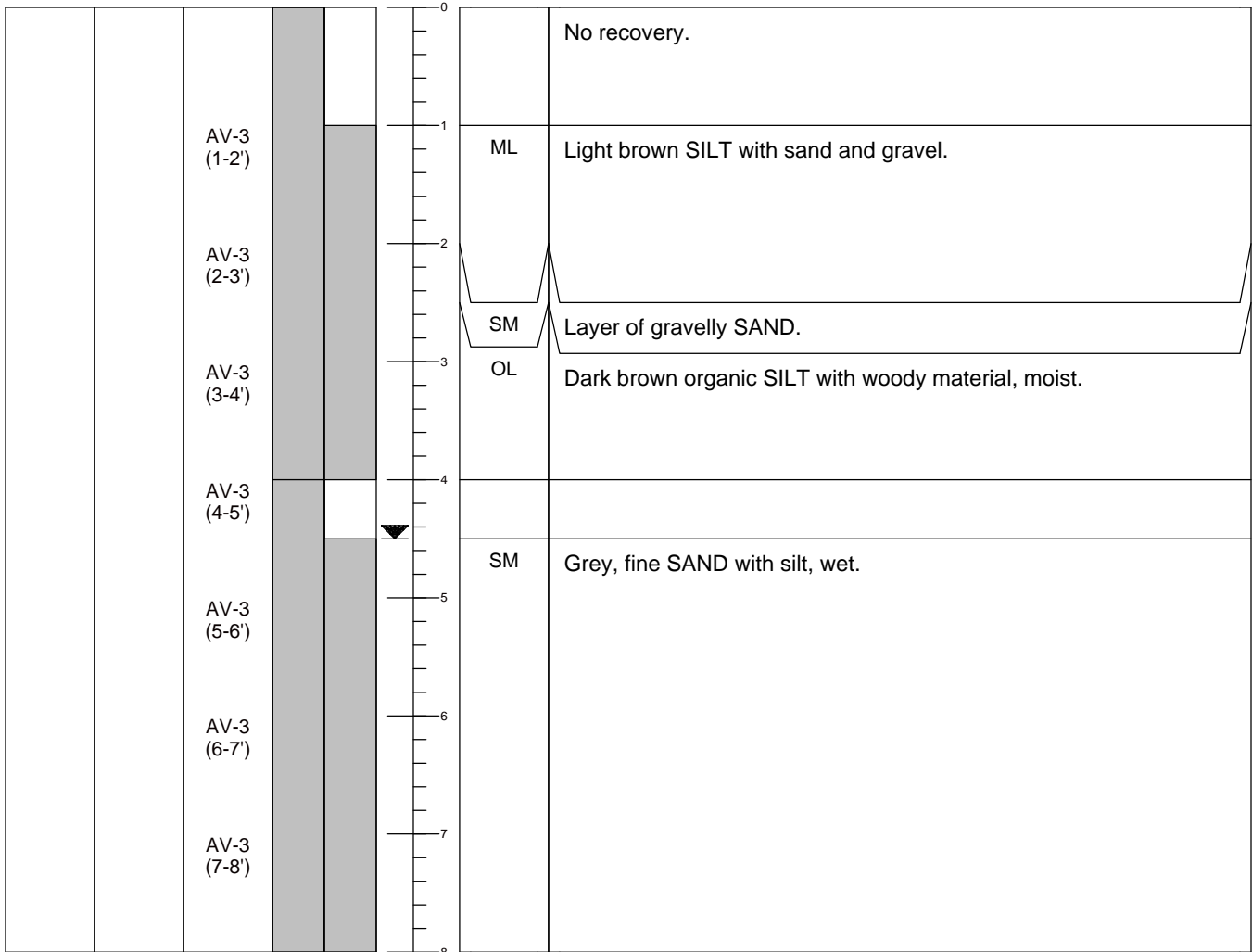
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701570.59
Longitude/Easting: 1186420.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Brett Beaulieu
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 4.5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---



Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701575.59
Longitude/Easting: 1186420.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Brett Beaulieu
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 6

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
 Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

						No recovery.
		AV-4 (1-2')			ML	Landscape bark at surface. Light brown SILT with sand, trace gravel, and roots.
		AV-4 (2-3')				
		AV-4 (3-4')				
		AV-4 (4-5')				
		AV-4 (5-6')			OL	Medium to dark brown organic SILT, some sand, woody material.
		AV-4 (6-7')			SM	Grey silty SAND, wet.
		AV-4 (7-8')				

Notes:

FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701570.59
Longitude/Easting: 1186435.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Brett Beaulieu
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 6

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

				0		No recovery.
		AV-5(1-2')		1	ML	Landscape bark at surface. Light brown SILT with sand, gravel, and roots.
		AV-5 (2-3')		2		
		AV-5 (3-4')		3		
		AV-5 (4-5')		4	OL	Medium brown organic SILT, some sand, woody material, darkens to dark brown.
		AV-5 (5-6')		5		
		AV-5 (6-7')		6	SM	Grey silty SAND, wet.
		AV-5 (7-8')		7		
				8		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

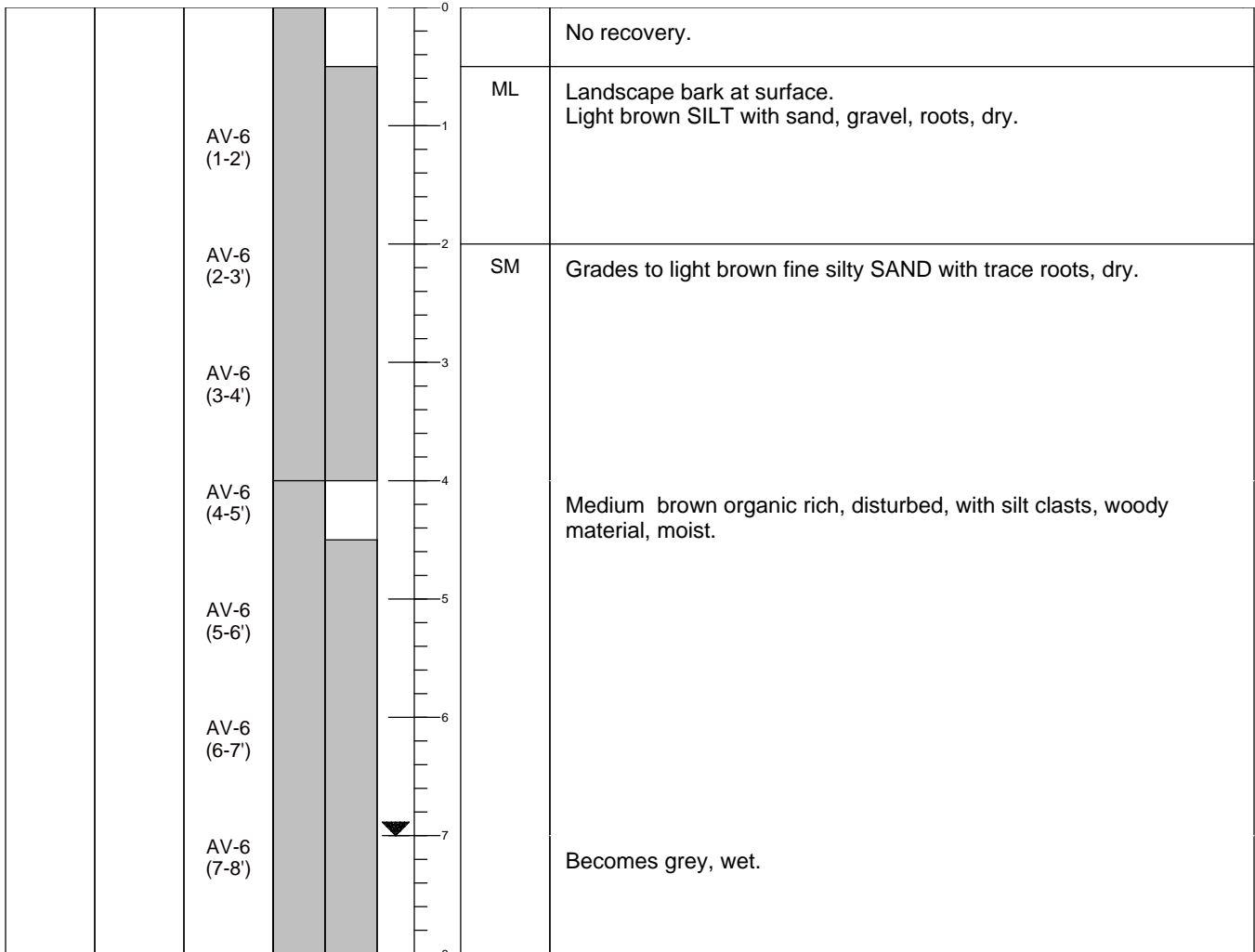
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701575.59
Longitude/Easting: 1186435.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Brett Beaulieu
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 7

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---



Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83	Drill Date: May 22, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Brett Beaulieu	Project: B&L O&M
Latitude/Northing: 701570.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186450.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): 6	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

				0	SM	Light brown silty SAND with roots and gravel.
		AV-7 (1-2')		1		
		AV-7 (2-3')		2		
		AV-7 (3-4')		3		
		AV-7 (4-5')		4		Becoming medium to dark brown with woody material, disturbed, moist.
		AV-7 (5-6')		5		
		AV-7 (6-7')		6		Grey, wet.
				7		
				8		

Notes:

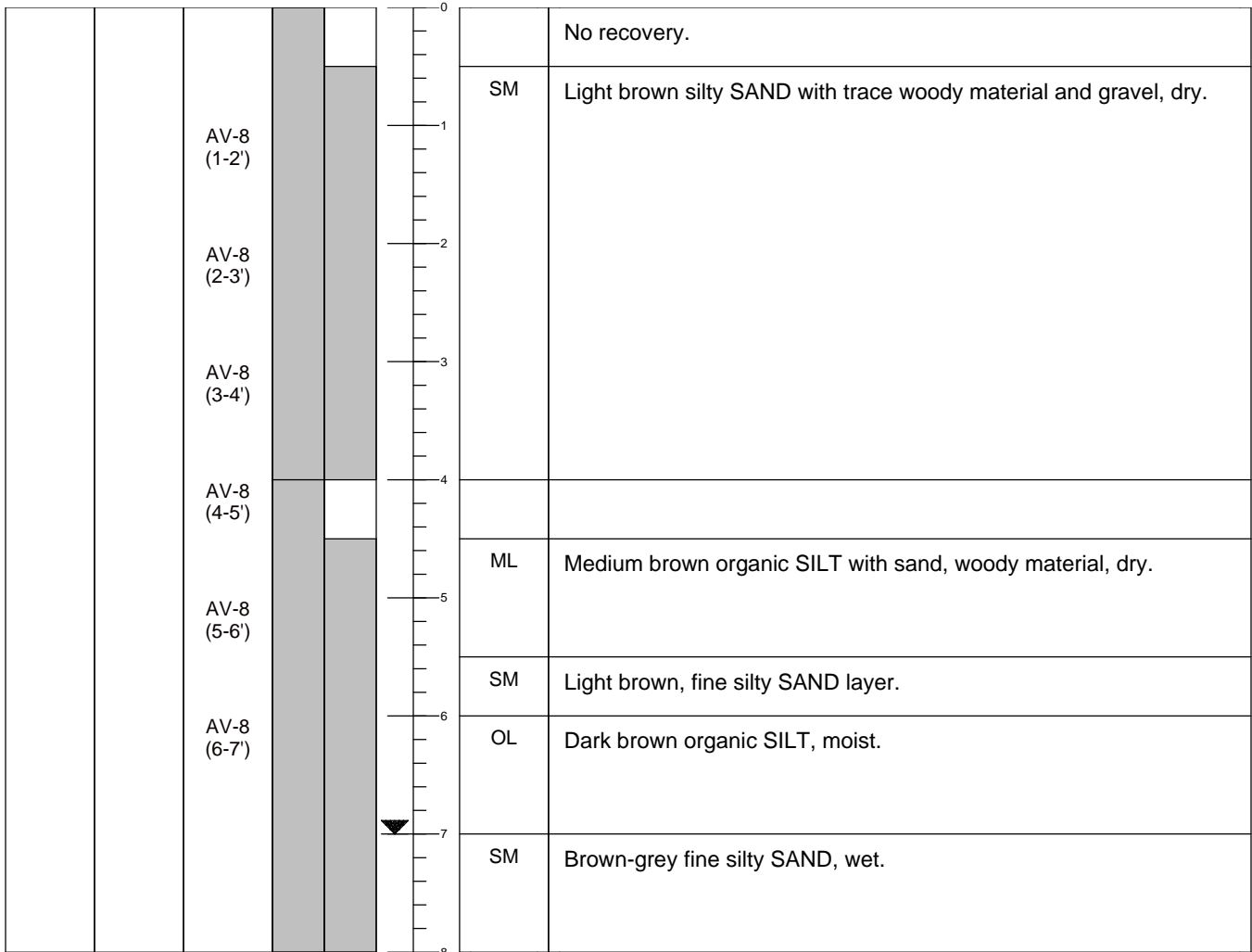
FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83	Drill Date: May 22, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Brett Beaulieu	Project: B&L O&M
Latitude/Northing: 701575.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186450.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): 7	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	--



Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701570.59
Longitude/Easting: 1186465.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

				0		No recovery.
		AV-9 (1-2')		1	SM	Light brown silty SAND, roots, trace gravel, dry.
		AV-9 (2-3')		2	SP	Light brown, fine SAND, moist.
		AV-9 (3-4')		3		Trace gravel.
		AV-9 (4-5')		4		Grey, medium to coarse SAND, trace gravel, wet.
		AV-9 (5-6')		5		▼
		AV-9 (6-7')		6	OL	Dark brown orgainc SILT, woody material, dry to moist.
		AV-9 (7-8')		7	SM	Dark grey silty SAND, no gravel, dry-moist.
				8		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Drill Date: May 22, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): N/A

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUEENT, odor, staining, sheen, debris, etc.)
-----------	-------	-----------	--------------------	--------------	-------------	---

		AV-10 (1-2')			SM	Light brown silty SAND, trace roots and gravel, dry.
		AV-10 (2-3')				
		AV-10 (3-4')			ML	Dark brown-grey mottled SILT, no gravel, dry.
		AV-10 (4-5')				No recovery.
		AV-10 (5-6')			OL	Dark brown organic SILT, woody material, no gravel, dry.
		AV-10 (6-7')				
		AV-10 (7-8')			SM	Grey silty SAND, moist.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
☒ = denotes groundwater table

Drill Date: May 22, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): NA

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701570.59

Longitude/Easting: 1186480.89

Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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		AV-11 (1-2')			SM	Light brown, fine silty SAND, roots, trace gravel.
		AV-11 (2-3')			SW	Light brownish-yellow, fine-coarse SAND and gravel.
		AV-11 (3-4')			SP	Grades to grey coarse SAND.
		AV-11 (4-5')			OL	Organic SILT.
		AV-11 (5-6')			SM/OL	Grey, coarse SAND and gravel interbedded with organic SILT.
		AV-11 (6-7')			OL	Organic SILT, woody material.
		AV-11 (6-7')			SM	Dark brown-grey silty SAND.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

☒ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701575.59
Longitude/Easting: 1186480.89
Boring Location: Autumn Village Apartments

Drill Date: May 22, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): NA

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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		AV-12 (1-2')			SM	Light brown, fine silty SAND, roots, trace gravel, dry.
		AV-12 (2-3')				
		AV-12 (3-4')			OL	Dark brown, organic SILT, dry.
		AV-12 (4-5')				
		AV-12 (5-6')				
		AV-12 (6-7')				
		AV-12 (7-8')			SM	Dark grey silty SAND, moist.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

☒ = denotes groundwater table

Drill Date: May 22, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Casey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): NA

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		AV-13 (1-2')			SM	Light brown, silty SAND, roots, trace gravel, dry.
		AV-13 (2-3')				
		AV-13 (3-4')			OL	Dark brown organic SILT, trace gravel, roots, woody material, dry.
		AV-13 (4-5')				
		AV-13 (5-6')				
		AV-13 (6-7')				
		AV-13 (7-8')			SM	Dark grey silty SAND, no gravel, moist.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
☒ = denotes groundwater table

Coordinate System: NAV83	Drill Date: May 22, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Lisa Meoli	Project: B&L O&M
Latitude/Northing: 701575.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186495.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): NA	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		AV-14 (1-2')			SM	Brown, silty SAND, roots, trace gravel, dry.
		AV-14 (2-3')				
		AV-14 (3-4')				
		AV-14 (4-5')			OL	Dark brown with grey mottles, organic SILT.
		AV-14 (5-6')				
		AV-14 (6-7')			SM	Grey, fine sandy SILT.
					OL	Grades back to dark brown organic SILT, woody vegetation, moist.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

☒ = denotes groundwater table

Drill Date: May 22, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): NA

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701570.59

Longitude/Easting: 1186510.89

Boring Location: Autumn Village Apartments

Remarks: Advanced adjacent probe location due to compressed recovery in initial boring due to the presence of peat.

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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				0	SM	Dark brown silty SAND, trace gravel, roots, vegetation, dry.
		AV-15 (1-2')		1		
		AV-15 (2-3')		2		
		AV-15 (3-4')		3		
		AV-15 (4-5')		4	ML/PT	Light to dark grey SILT grading to PEAT.
		AV-15 (5-6')		5		
		AV-15 (6-7')		6	PT	PEAT layer.
		AV-15 (7-8')		7		
				8		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

☒ = denotes groundwater table

Drill Date: May 22, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): NA

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701575.59

Longitude/Easting: 1186510.89

Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		AV-16 (1-2')			SM	Dark brown silty SAND, trace gravel, roots, vegetation, dry.
		AV-16 (2-3')				
		AV-16 (3-4')				
		AV-16 (4-5')			OL	Dark brown organic SILT. Wood piece (of natural origin) at 5.5 feet bgs.
		AV-16 (5-6')				
		AV-16 (6-7')			PT	PEAT layer.
		AV-16 (7-8')				

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

☒ = denotes groundwater table

Drill Date: June 7, 2013

Logged By: Kristin Andersen

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701565.59

Longitude/Easting: 1186420.89

Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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				0	SW	Asphalt surface. Brown, well-graded fine to medium SAND w/few small to medium rounded gravel, and trace SILT at 1 feet, becomes moist.
		AV-17 (3-4')		1		
				2		
				3		
		AV-17 (4-5')		4	SM	Gray, well-graded fine to coarse silty SAND with gravel. Some pockets of fine brown sand, wet.
				5	SP	Dark brown, fine SAND, no silt.
		AV-17 (5-6')		6		
		AV-17 (6-7')		7		
		AV-17 (7-8')		8		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

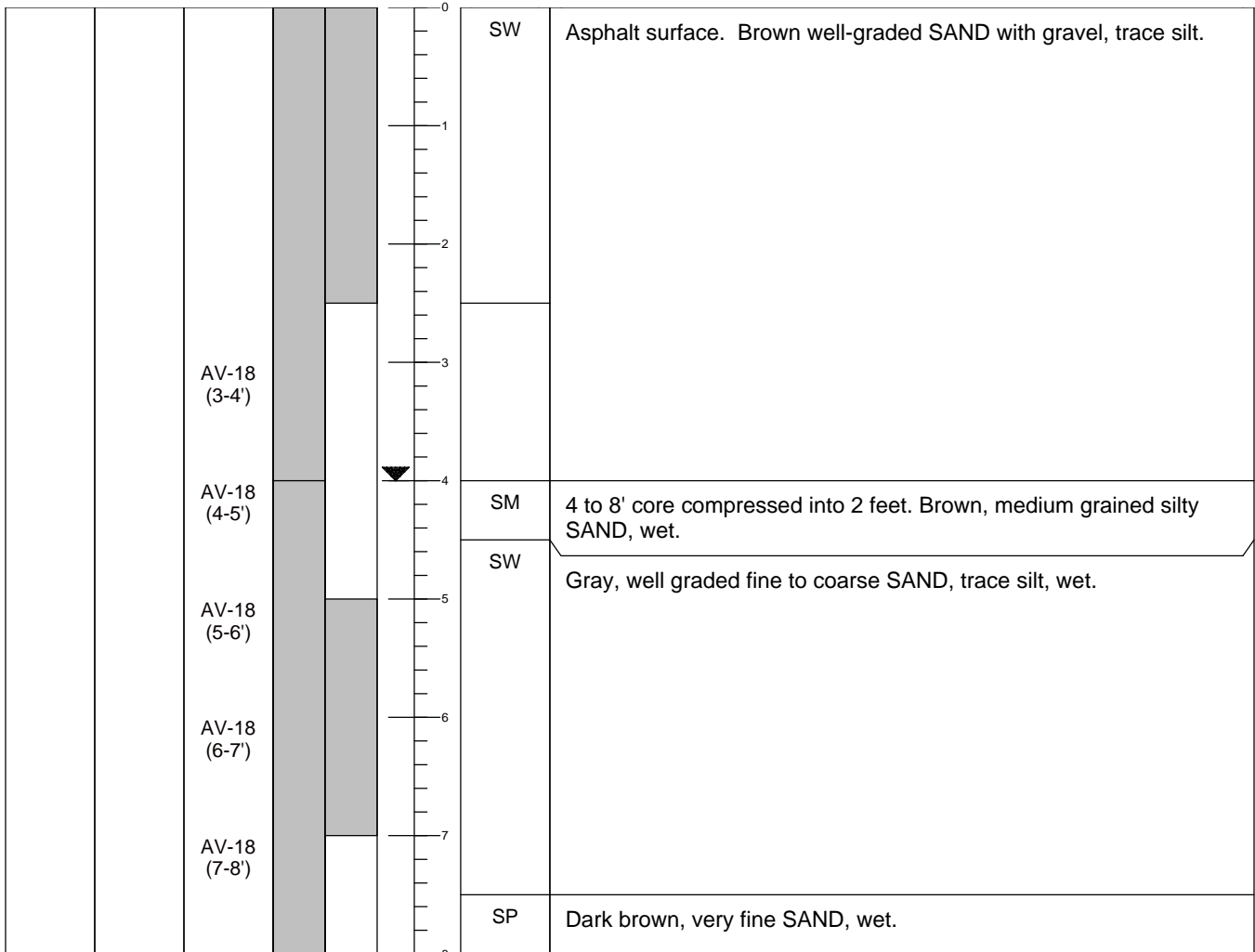
USCS = Unified Soil Classification System

▼ = denotes groundwater table

Coordinate System: NAV83	Drill Date: June 7, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Kristin Andersen	Project: B&L O&M
Latitude/Northing: 701560.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186435.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): 4	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 4

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
 Milton, WA 98354

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701565.59
Longitude/Easting: 1186435.89
Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
				0	SW	Asphalt surface. Brown, well-graded fine to coarse SAND with gravel and trace silt. Becomes moist at 1'.
				1		
				2		
				3		Black oxidized wood fragment, 1" lense of tight brown silt.
		AV-19 (3-4')		3		
				4		
		AV-19 (4-5')		4		Gray, well-graded loose SAND with few silt and gravel, wet.
		AV-19-GW (4-8')		4		
				5		
		AV-19 (5-6')		5		
				6		
		AV-19 (6-7')		6	SP	Dark brown, very fine, poorly-graded SAND, no silt.
				7		
		AV-19 (7-8')		7		
				8		

Notes:

FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Drill Date: June 7, 2013

Logged By: Kristin Andersen

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

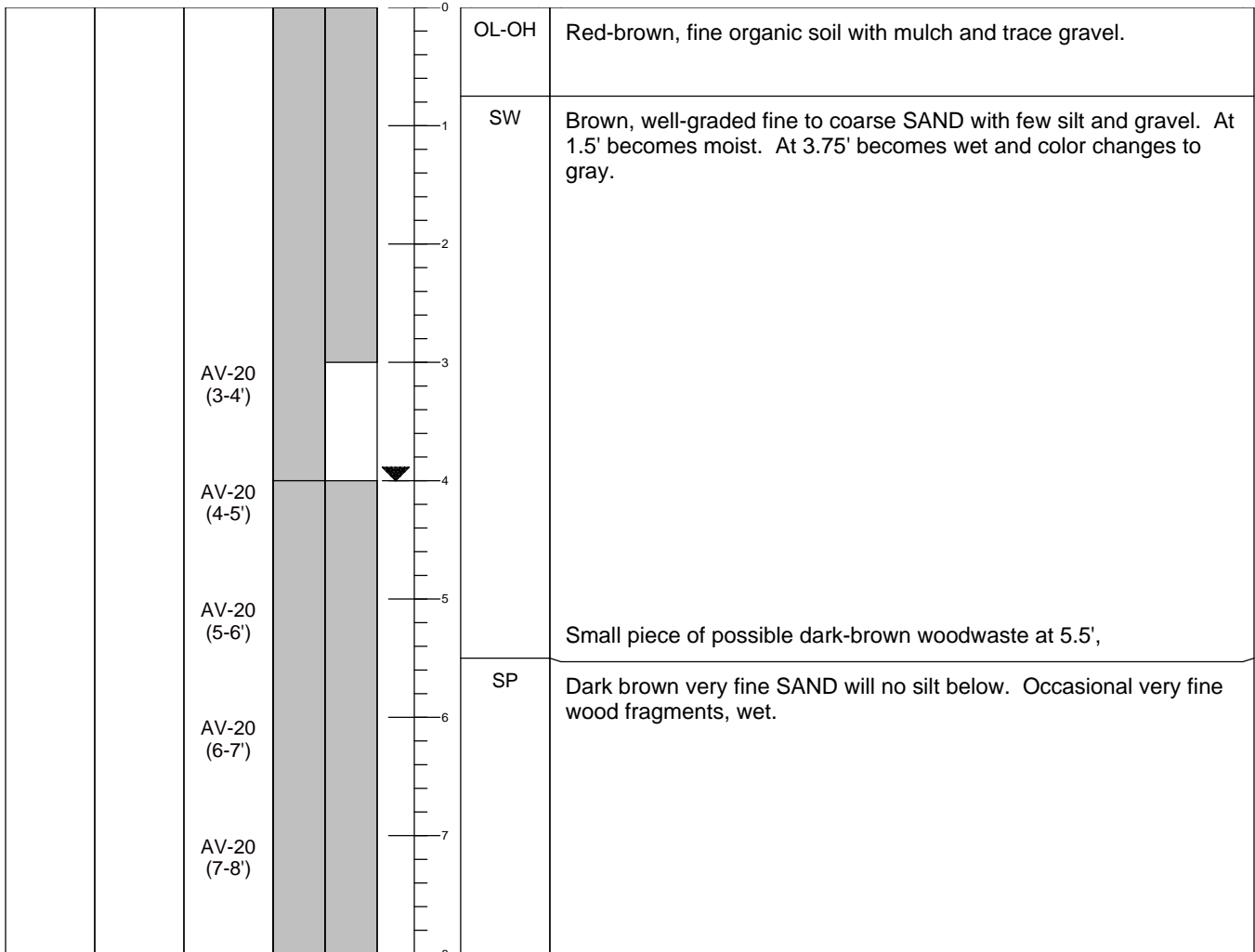
Latitude/Northing: 701560.59

Longitude/Easting: 1186450.89

Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

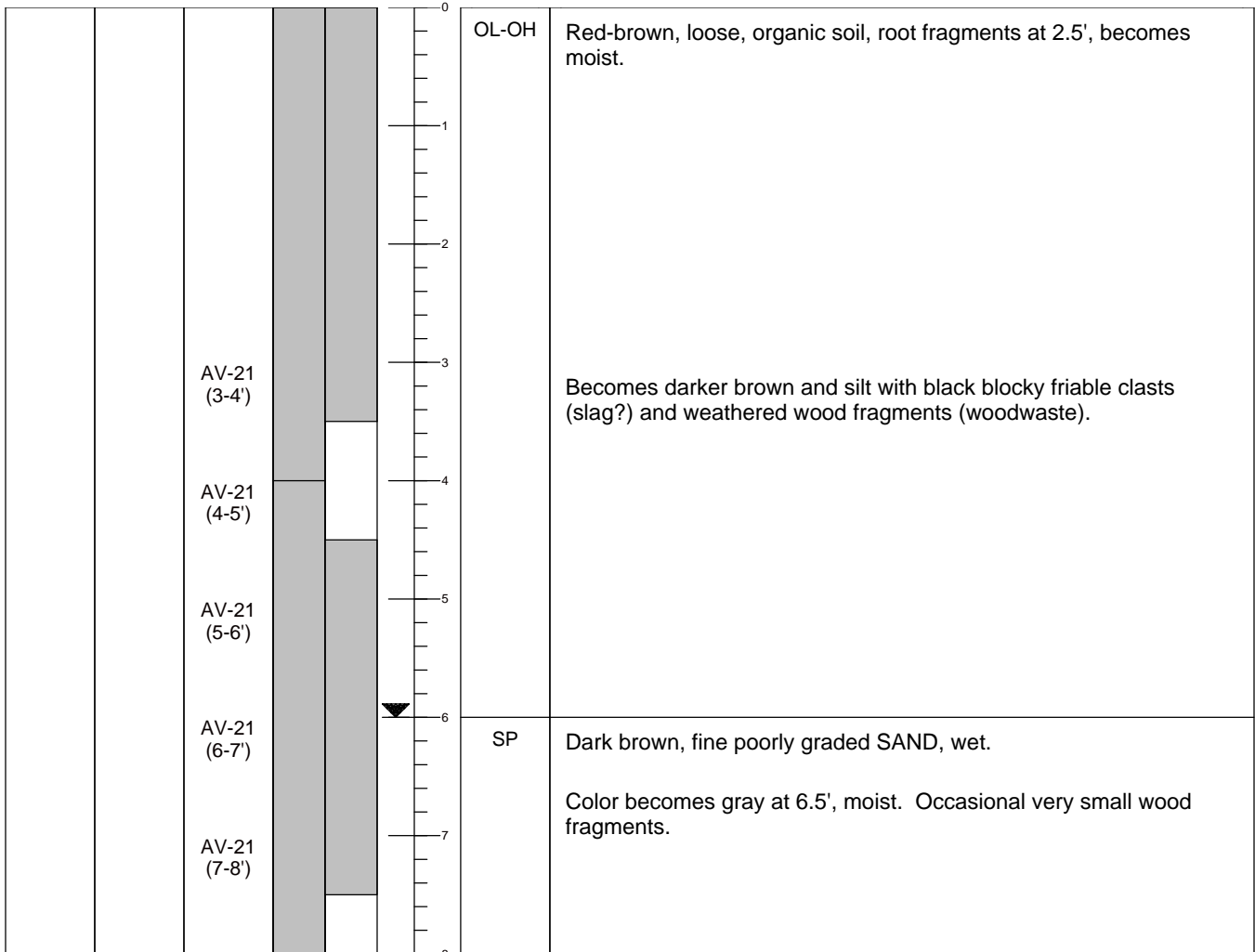
Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 6

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701565.59
Longitude/Easting: 1186450.89
Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Notes:
FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701560.59
Longitude/Easting: 1186495.89
Boring Location: Autumn Village Apartments

Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 3

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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				0	OL-OH	Light brown, loose organic with mulch, dry.
				1	SW	Brown well graded fine to coarse SAND with gravel, little silt, dry. Wood fragments, moist. Becomes gray, wet.
				2		
				3		
		AV-22 (3-4')		4		
		AV-22 (4-5')		5		
				6	SP	Dark brown very fine poorly graded SAND. Very small occasional wood fragments.
		AV-22 (5-6')		7		
		AV-22 (6-7')		8		

Notes:
FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Drill Date: June 7, 2013

Logged By: Kristin Andersen

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x4' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 8

Groundwater ATD (ft bgs): 3

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83

Ground Surface Elevation: NA

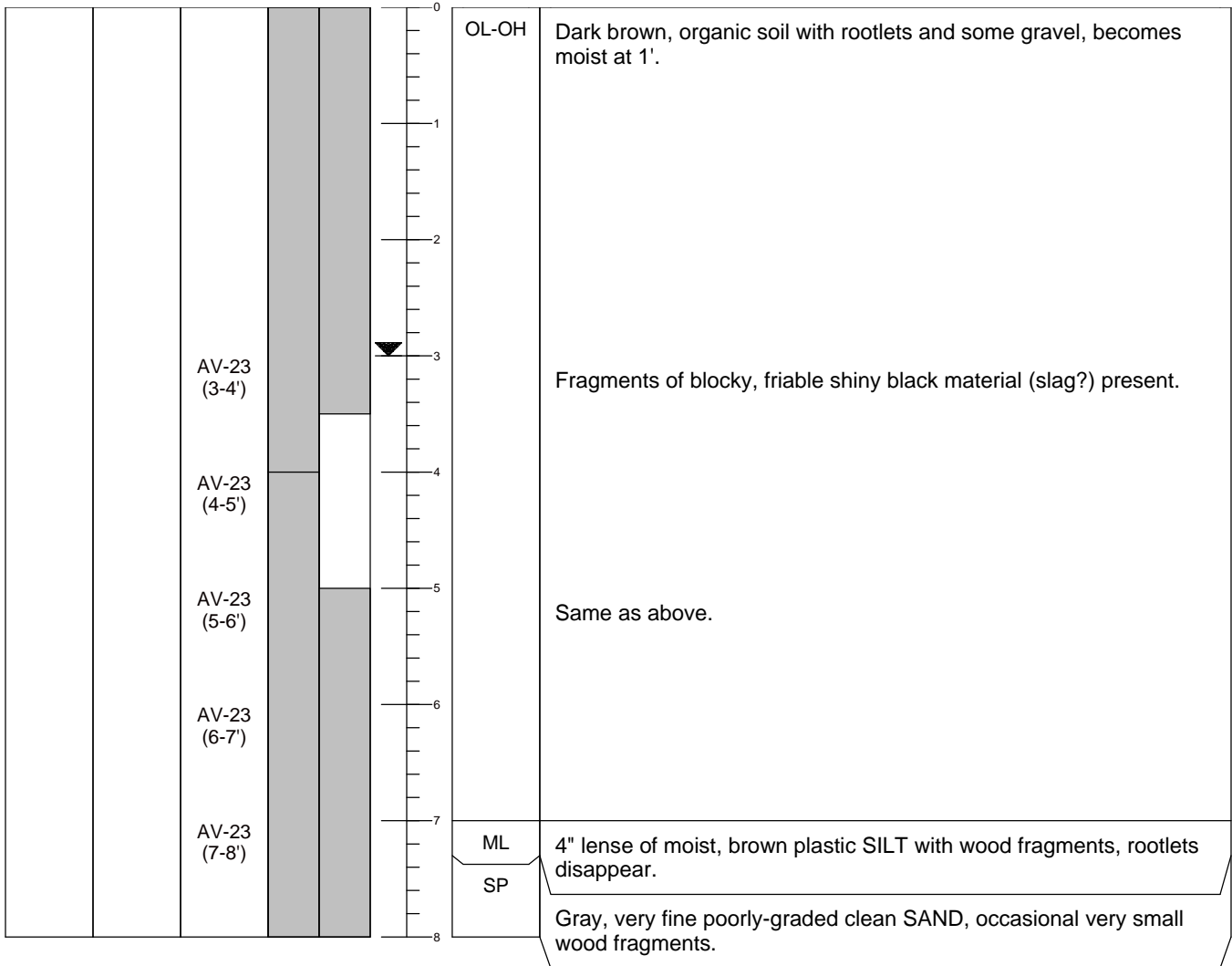
Latitude/Northing: 701565.59

Longitude/Easting: 1186495.89

Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

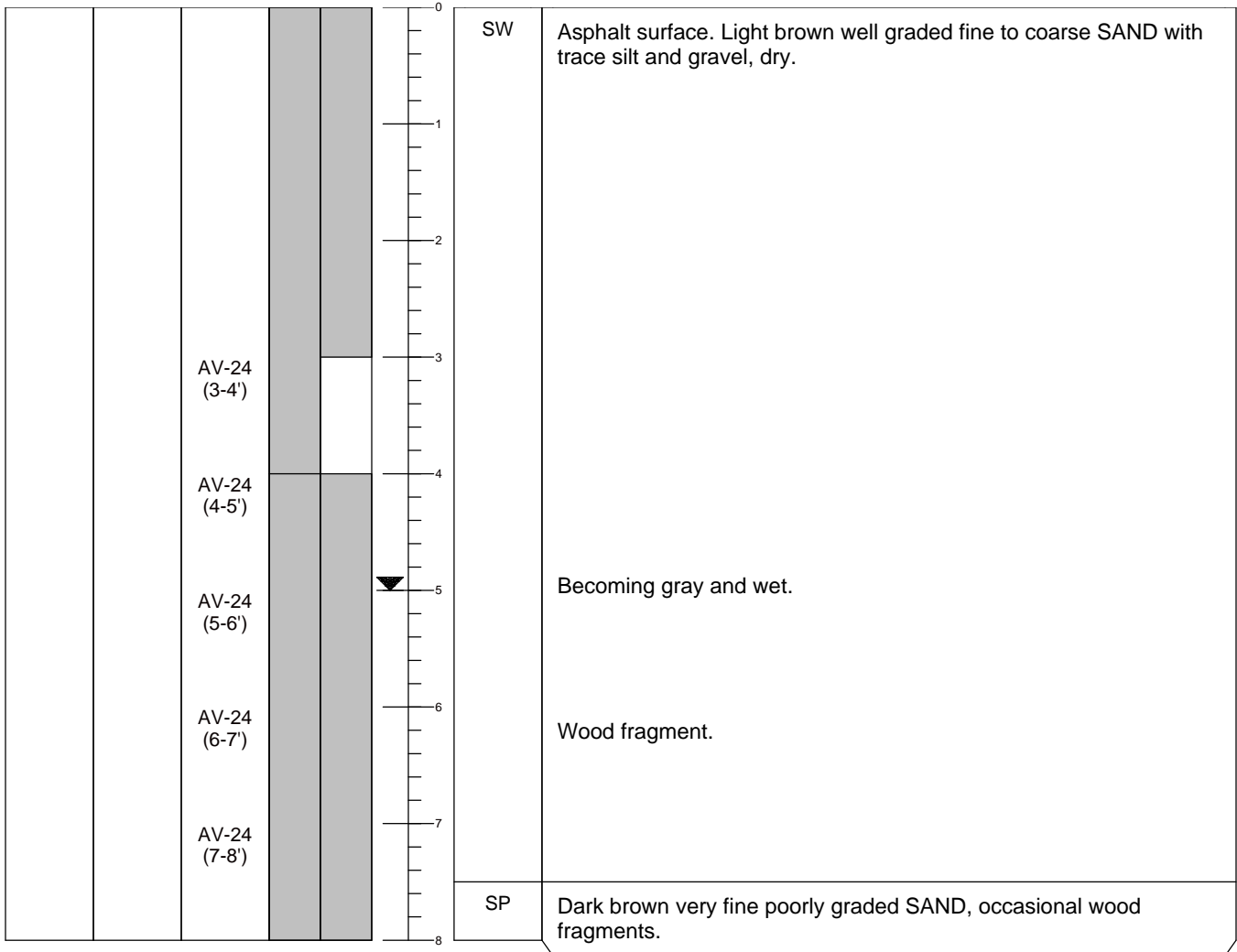
USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: June 7, 2013	Client: B&L Trust
Logged By: Kristin Andersen	Project: B&L O&M
Drilled By: Cascade / Kasey Goble	Task: 1525
Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
Boring Diameter: 2 inches	
Boring Depth (ft bgs): 8	
Groundwater ATD (ft bgs): 5	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

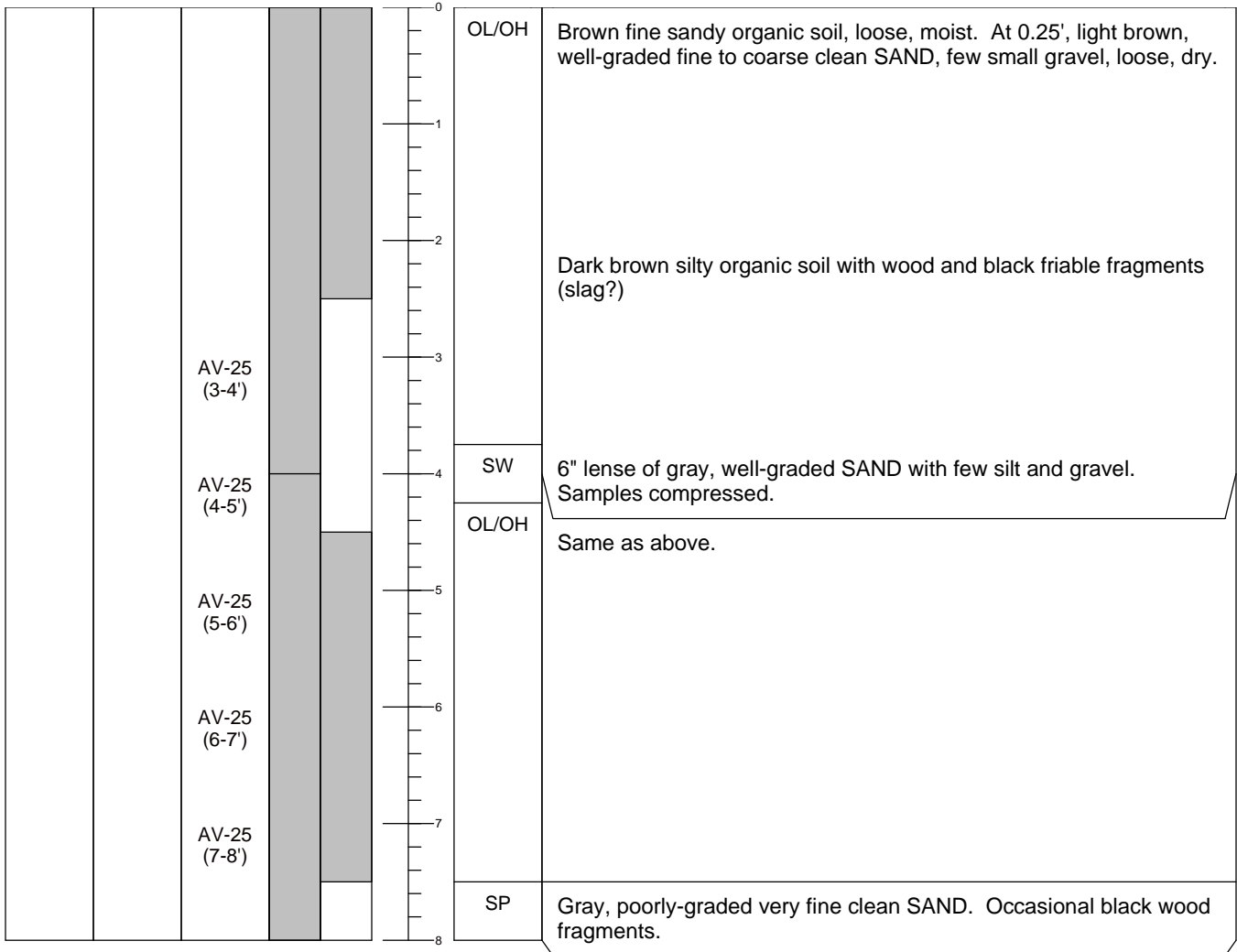
Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): NA

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
Milton, WA 98354

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701565.59
Longitude/Easting: 1186510.89
Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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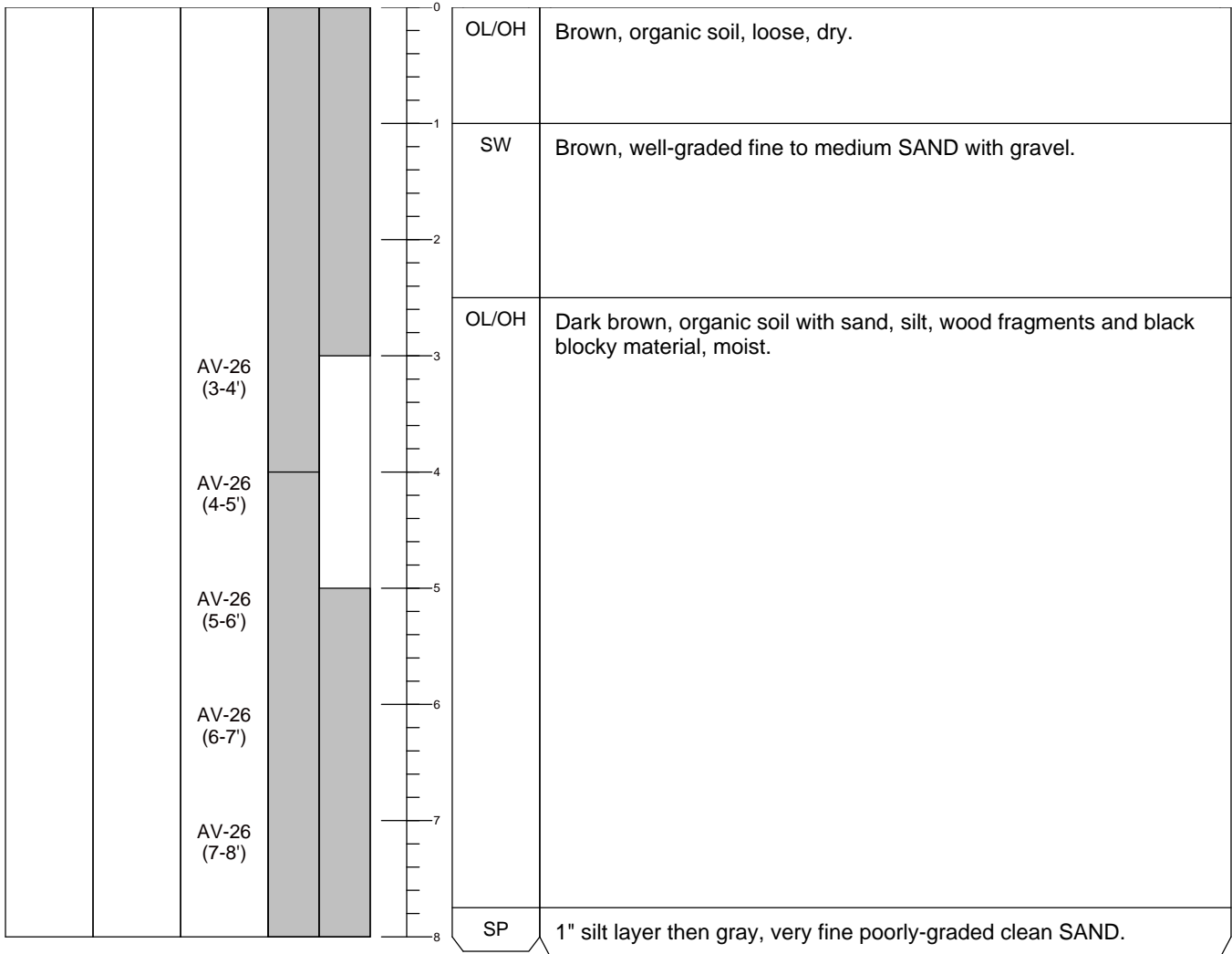
Notes:
FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
☒ = denotes groundwater table

Coordinate System: NAV83	Drill Date: June 7, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Kristin Andersen	Project: B&L O&M
Latitude/Northing: 701570.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186525.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): NA	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Casey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): NA

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
 Milton, WA 98354

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701575.59
Longitude/Easting: 1186525.89
Boring Location: Autumn Village Apartments

Remarks: Both samples very compressed.

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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						OL/OH No recovery. Compressed sample.
						Light brown, organic soil with few small gravel and mulch, loose, dry.
		AV-27 (3-4')				No recovery. Compressed sample.
		AV-27 (4-5')				
		AV-27 (5-6')				Light brown, organic soil with few small gravel and mulch, loose, dry.
		AV-27 (6-7')				Becomes moist with sand and black blocky fragments. Wood fragments at 7'.
		AV-27 (7-8')				

Notes:
 FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ☒ = denotes groundwater table

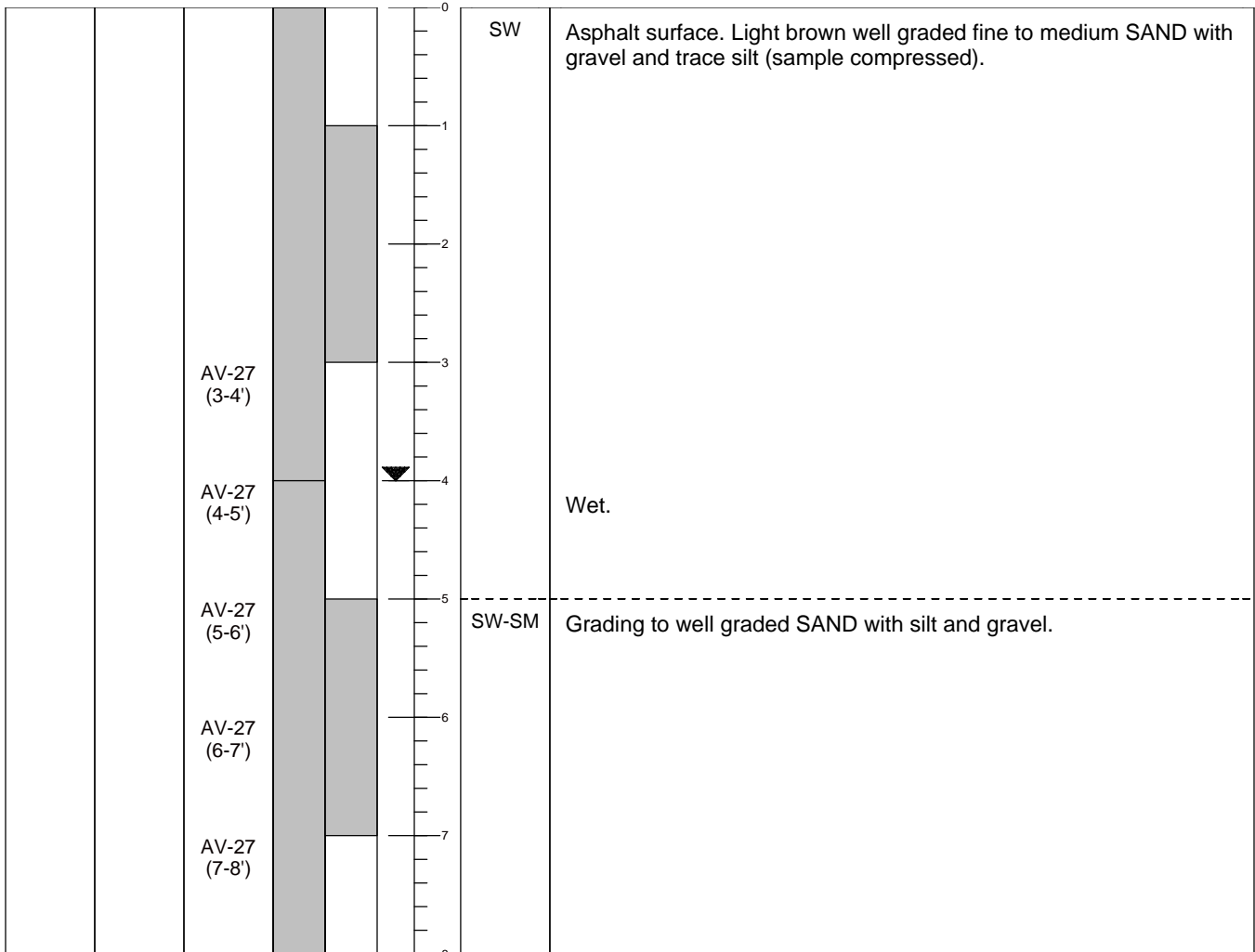
Drill Date: June 7, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): 4

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
 Milton, WA 98354

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701562.59
Longitude/Easting: 1186525.89
Boring Location: Autumn Village Apartments

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Notes:

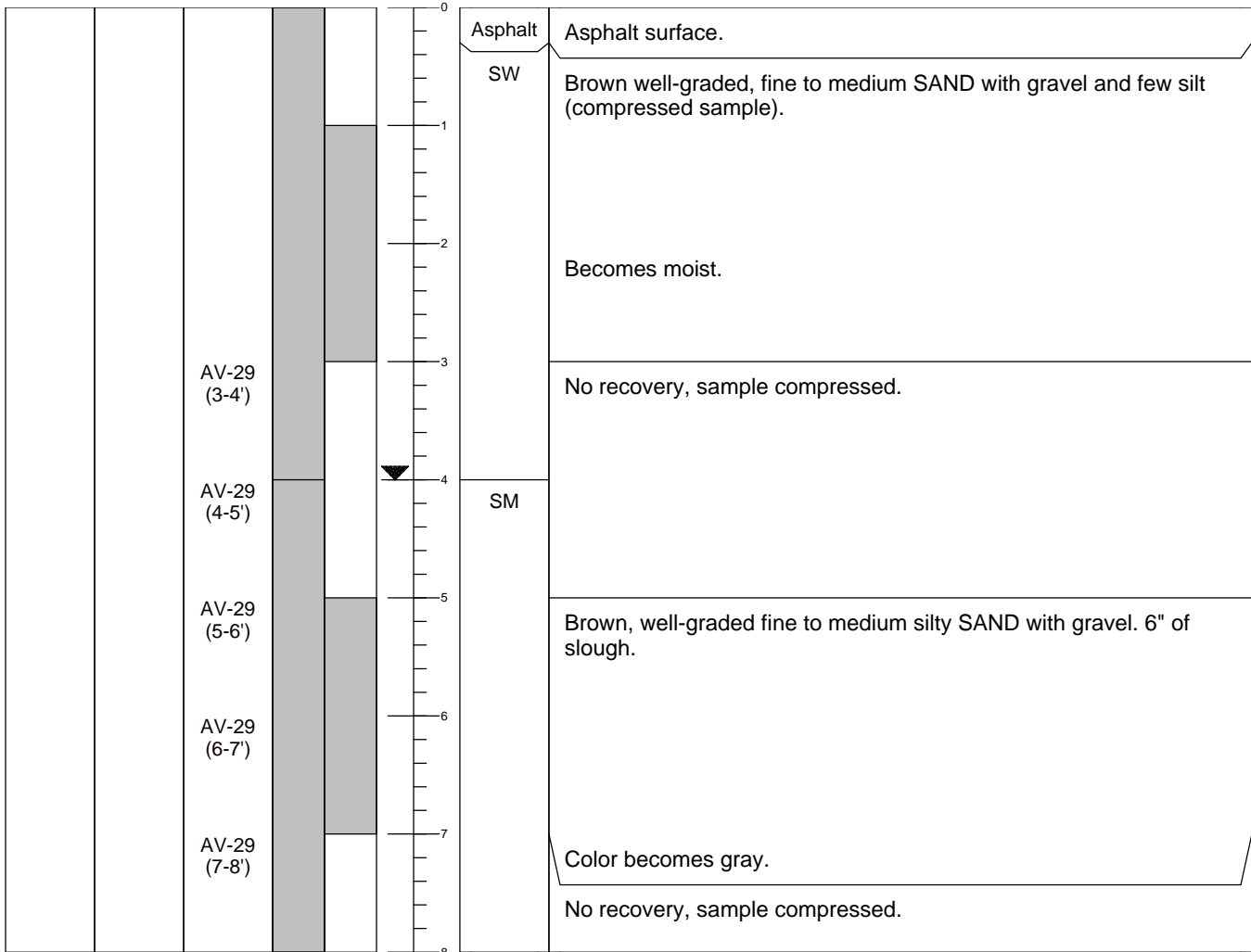
FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Coordinate System: NAV83	Drill Date: June 10, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Kristin Andersen	Project: B&L O&M
Latitude/Northing: 701566.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186540.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): 4	

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

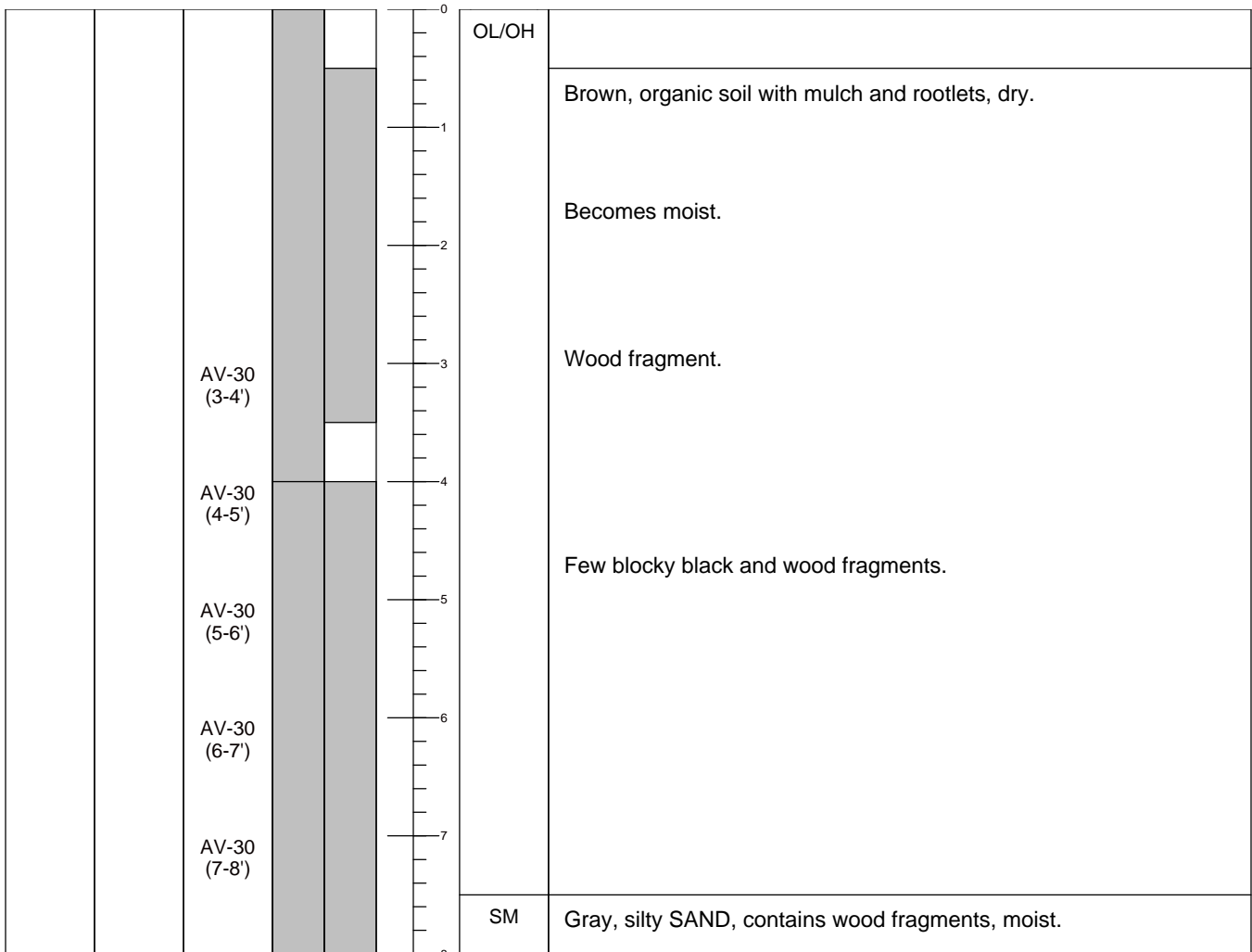
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701575.59
Longitude/Easting: 1186540.89
Boring Location: Autumn Village Apartments

Drill Date: June 10, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x4' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 8
Groundwater ATD (ft bgs): NA

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: 2211 6th Ave
 Milton, WA 98354

Remarks:

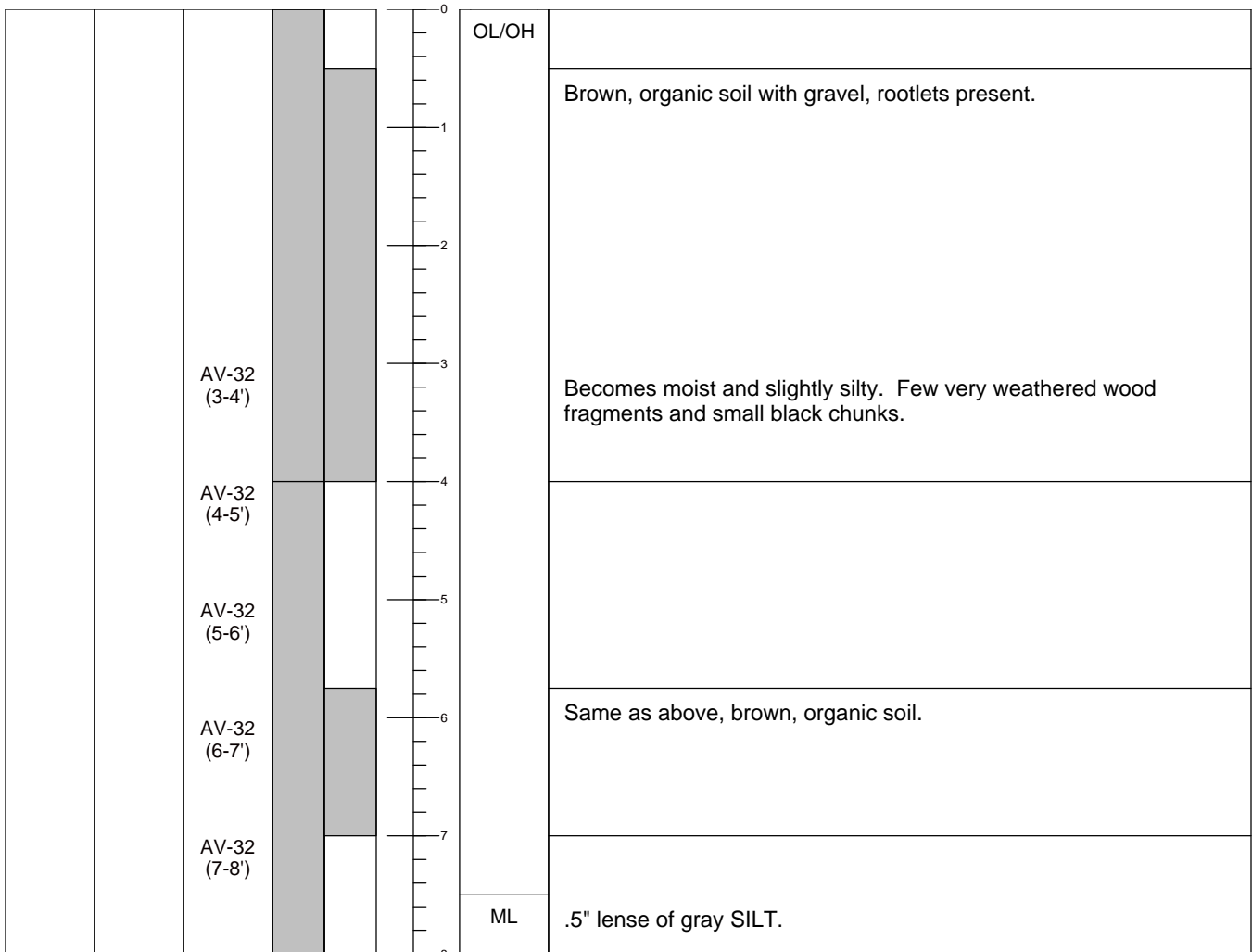
PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Coordinate System: NAV83	Drill Date: June 10, 2013	Client: B&L Trust
Ground Surface Elevation: NA	Logged By: Kristin Andersen	Project: B&L O&M
Latitude/Northing: 701575.59	Drilled By: Cascade / Kasey Goble	Task: 1525
Longitude/Easting: 1186555.89	Drill Type: 54 LT Limited Access GP	Address: 2211 6th Ave
Boring Location: Autumn Village Apartments	Sample Method: Direct Push 2"x4' Core	Milton, WA 98354
	Boring Diameter: 2 inches	
	Boring Depth (ft bgs): 8	
	Groundwater ATD (ft bgs): NA	

Remarks: Samples very compressed.

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 702027.34
Longitude/Easting: 1185675.88
Boring Location: Agricultural Field

Drill Date: May 23, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 4

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUENT, odor, staining, sheen, debris, etc.)
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		WD-1 1-2'		0 1	SM	Brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-1 2-3'		2		
		WD-1 3-4'		3		Dark gray, no gravel.
		WD-1 4-5'		4		Wet.
				5		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 702026.02

Longitude/Easting: 1185670.82

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-2 1-2'			SM	Dark brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-2 2-3' (duplicate)				
		WD-2 3-4'				
		WD-2 4-5' (Archived)				Dark gray, wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 702012.01

Longitude/Easting: 1185675.67

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-3 1-2'			SM	Dark brown, silty SAND, dry.
		WD-3 2-3'				
		WD-3 3-4'				
		WD-3 4-5'				Dark gray, wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 702011.99

Longitude/Easting: 1185669.84

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
		WD-4 1-2'		0-1	SM	Brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-4 2-3'		1-2		
		WD-4 3-4'		2-3		Dark grey, no gravel, moist to wet.
		WD-4 4-5' (Archived)		3-4		Wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5 feet

Groundwater ATD (ft bgs): 4 feet bgs

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill

Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701998.15

Longitude/Easting: 1185674.85

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-5 1-2'			SM	Brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-5 2-3'				
		WD-5 3-4'				
		WD-5 4-5'				Dark grey, wet.

Notes:

FT BGS = feet below ground surface

ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

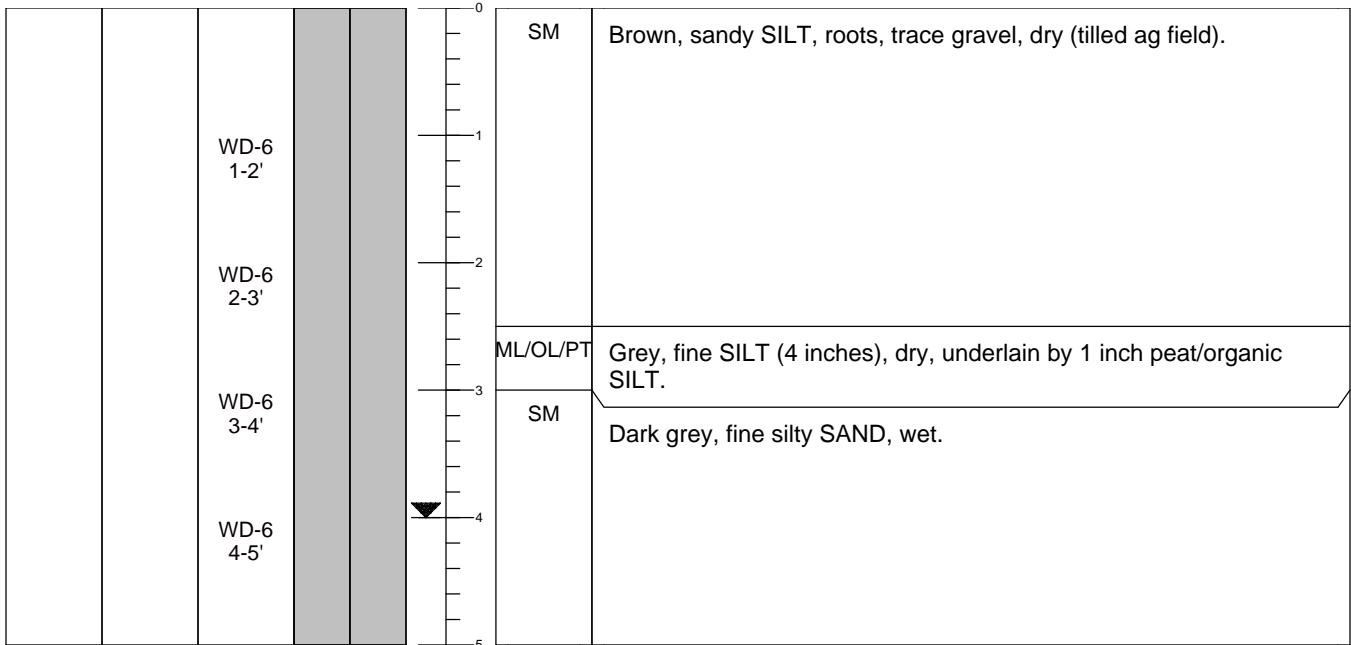
Latitude/Northing: 701998.81

Longitude/Easting: 1185669.18

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 4

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701983.40

Longitude/Easting: 1185674.42

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
		WD-7 1-2'		0-1	SM	Brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-7 2-3'		1-2		
		WD-7 3-4'		2-3		Silt layer with black woody debris.
		WD-7 4-5' (Archived)		3-4		Dark grey, wet.
				4		
				5		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Casey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5 feet

Groundwater ATD (ft bgs): 5

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701983.92

Longitude/Easting: 1185669.99

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUEENT, odor, staining, sheen, debris, etc.)
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		WD-8 1-2' (duplicate)			SM	Brown, sandy SILT, roots, trace gravel, dry (tilled ag field).
		WD-8 2-3'				
		WD-8 3-4'				
		WD-8 4-5' (Archived)			ML/PT	Grey SILT underlain by 1 inch black woody vegetation (peat?).
					SM	Dark grey, fine silty SAND, wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

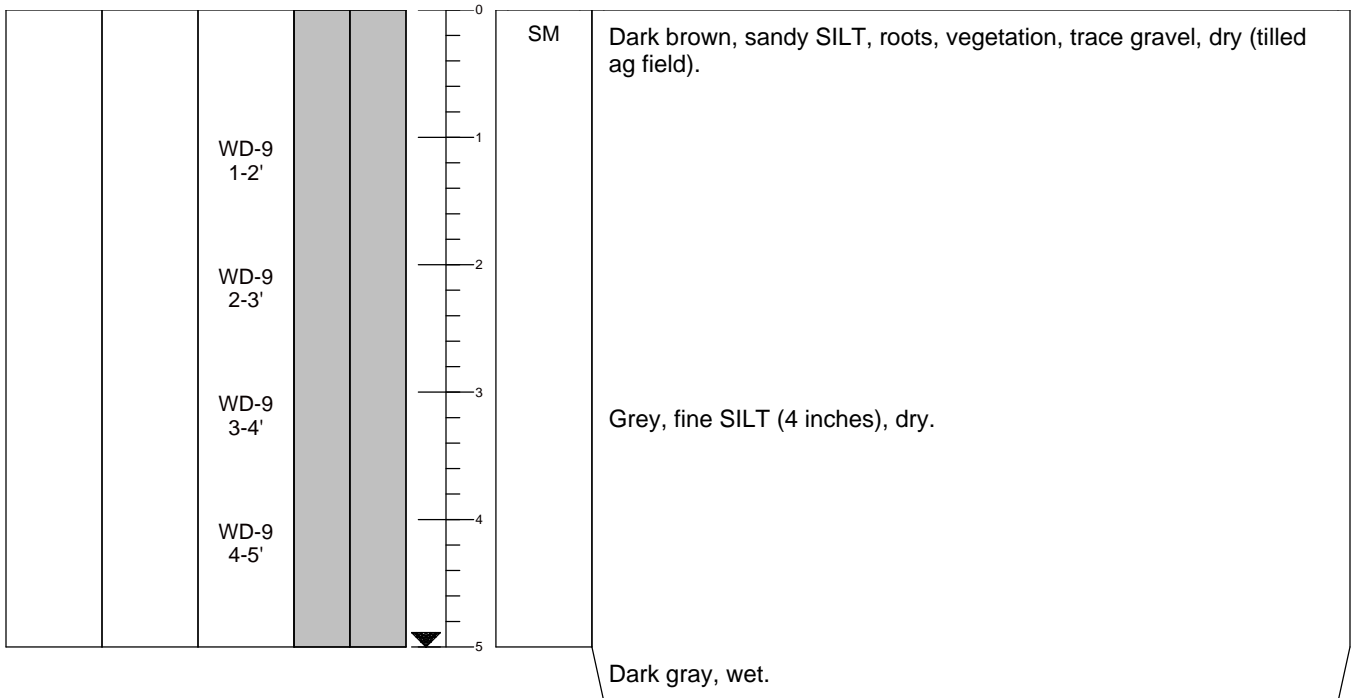
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701968.93
Longitude/Easting: 1185675.32
Boring Location: Agricultural Field

Drill Date: May 23, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUEENT, odor, staining, sheen, debris, etc.)
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Notes:
 FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 5

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701969.03

Longitude/Easting: 1185669.26

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-10 1-2'			SM	Dark brown, silty SAND, roots, dry (tilled ag field).
		WD-10 2-3'				
		WD-10 3-4'				Gray, moist.
		WD-10 4-5' (Archived)				Dark gray, wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 5

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701955.33

Longitude/Easting: 1185674.42

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUENT, odor, staining, sheen, debris, etc.)
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		WD-11 1-2'			SM	Dark brown, sandy SILT, roots, vegetation, trace gravel, dry (tilled ag field).
		WD-11 2-3'				Grey, SILT underlain by chunk of wood, dry.
		WD-11 3-4'				Grey, sandy SILT, moist to wet.
		WD-11 4-5'				

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701954.83
Longitude/Easting: 1185667.94
Boring Location: Agricultural Field

Drill Date: May 23, 2013
Logged By: Lisa Meoli
Drilled By: Cascade / Kasey Goble
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 4

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-12 1-2'		0 1	SM	Dark brown, sandy SILT, roots, vegetation, trace gravel, dry (tilled ag field).
		WD-12 2-3'		2		
		WD-12 3-4'		3		Chunk of wood underlain by grey, sandy SILT, moist.
		WD-12 4-5'		4		Dark grey, silty SAND, wet.
				5		

Notes:
 FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 5

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701941.87

Longitude/Easting: 1185674.51

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-13 1-2'			SM	Dark brown, silty SAND, roots, vegetation, trace gravel, dry (tilled ag field).
		WD-13 2-3'				
		WD-13 3-4'				Layer of grey silt underlain by woody vegetation.
		WD-13 4-5'				Dark gray.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Drill Date: May 23, 2013

Logged By: Lisa Meoli

Drilled By: Cascade / Kasey Goble

Drill Type: 54 LT Limited Access GP

Sample Method: Direct Push 2"x5' Core

Boring Diameter: 2 inches

Boring Depth (ft bgs): 5

Groundwater ATD (ft bgs): 5

Client: B&L Trust

Project: B&L O&M

Task: 1525

Address: B&L Landfill
Milton, WA

Coordinate System: NAV83

Ground Surface Elevation: NA

Latitude/Northing: 701942.47

Longitude/Easting: 1185667.89

Boring Location: Agricultural Field

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUENT, odor, staining, sheen, debris, etc.)
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		WD-14 1-2'			SM	Dark brown, sandy SILT, roots, vegetation, trace gravel, dry (tilled ag field).
		WD-14 2-3'				
		WD-14 3-4'			ML/PT	Grey, SILT underlain by chunk of wood and other vegetation (peat?).
		WD-14 4-5'			SM	Dark grey, fine silty SAND, wet.

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

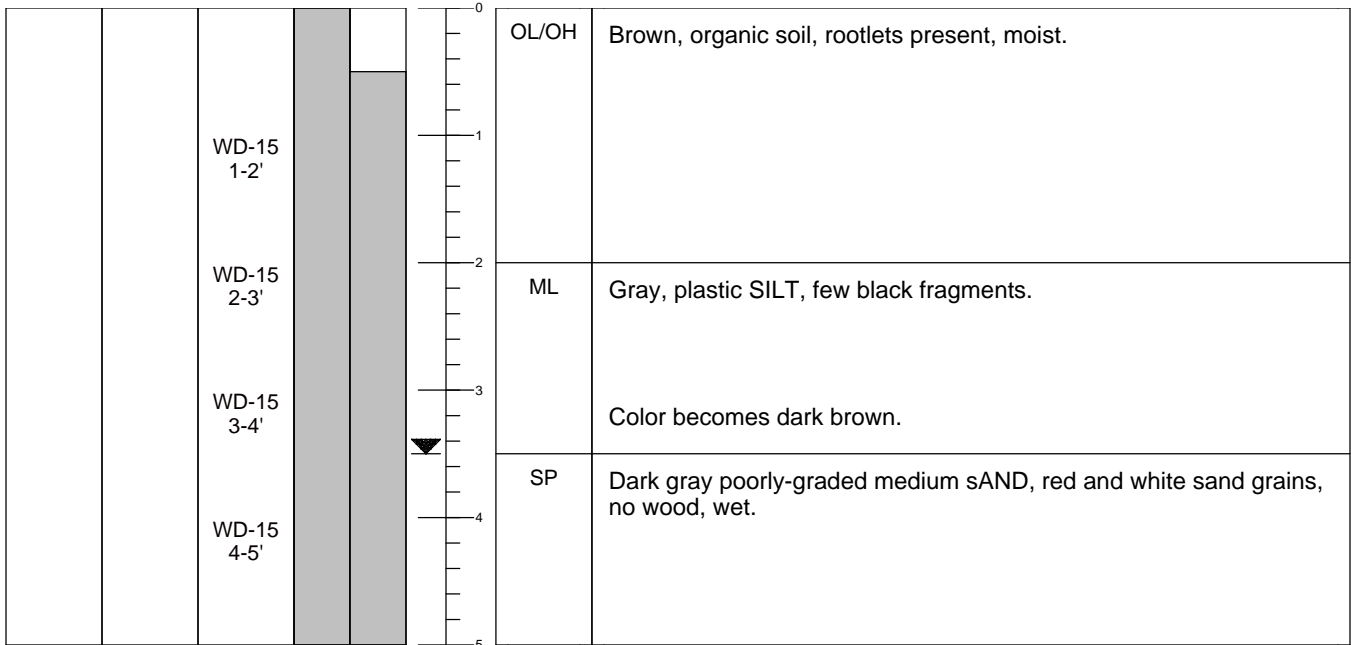
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701927.71
Longitude/Easting: 1185675.90
Boring Location: Agricultural Field

Drill Date: June 10, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Don Harnden
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 3.5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUEENT, odor, staining, sheen, debris, etc.)
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Notes:
 FT BGS = feet below ground surface
 ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
 USCS = Unified Soil Classification System
 ▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701927.66
Longitude/Easting: 1185669.34
Boring Location: Agricultural Field

Drill Date: June 10, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Don Harnden
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 2.5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITUIENT, odor, staining, sheen, debris, etc.)
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		WD-16 1-2'		0	OL/OH	Dark brown, organic soil, moist.
		WD-16 2-3'		1	ML	Gray, plastic SILT, black chunks and wood fragments present. Wet at 2.5 ft bgs.
		WD-16 3-4'		2		Dark gray, poorly-graded medium clean SAND, red and white sand grains, no wood, wet.
		WD-16 4-5'		3	SP	
				4		
				5		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact

USCS = Unified Soil Classification System

▼ = denotes groundwater table

Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701911.57
Longitude/Easting: 1185674.42
Boring Location: Agricultural Field

Drill Date: June 10, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Don Harnden
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5 feet
Groundwater ATD (ft bgs): 3.1 feet

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUENT, odor, staining, sheen, debris, etc.)
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		WD-17 1-2'		0 1	OL/OH	Dark brown, organic soil, rootlets, moist.
		WD-17 2-3'		2	ML	Dark gray, plastic SILT, wood fragments (black, oxidized).
		WD-17 3-4'		3	SP	Dark gray, poorly-graded clean medium SAND, red and white grains, no wood.
		WD-17 4-5'		4 5		

Notes:

FT BGS = feet below ground surface
ppm = parts per million

--- Dashed contact line in soil description indicates a gradational contact
USCS = Unified Soil Classification System
▼ = denotes groundwater table

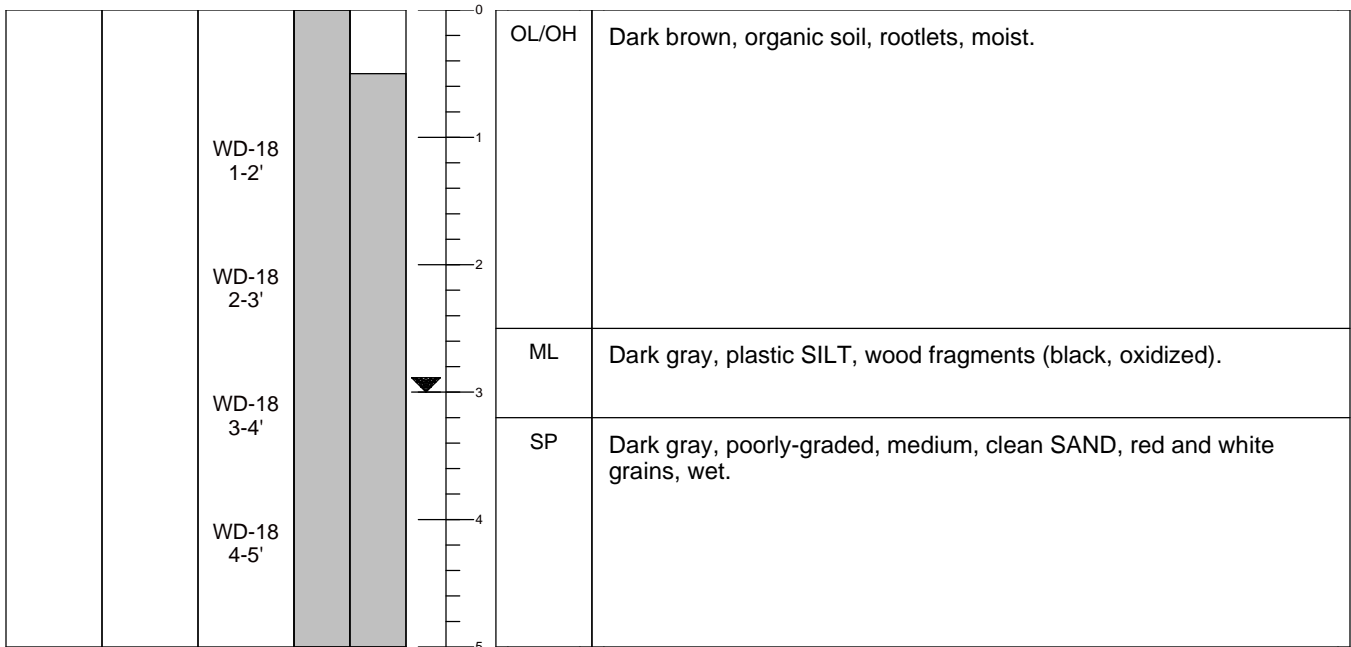
Coordinate System: NAV83
Ground Surface Elevation: NA
Latitude/Northing: 701912.00
Longitude/Easting: 1185668.18
Boring Location: Agricultural Field

Drill Date: June 10, 2013
Logged By: Kristin Andersen
Drilled By: Cascade / Don Harnden
Drill Type: 54 LT Limited Access GP
Sample Method: Direct Push 2"x5' Core
Boring Diameter: 2 inches
Boring Depth (ft bgs): 5
Groundwater ATD (ft bgs): 5

Client: B&L Trust
Project: B&L O&M
Task: 1525
Address: B&L Landfill
Milton, WA

Remarks:

PID (ppm)	SHEEN	SAMPLE ID	DRIVEN / RECOVERED	DEPTH FT BGS	USCS SYMBOL	SOIL DESCRIPTION AND OBSERVATIONS (color, texture, moisture, MAJOR CONSITIUENT, odor, staining, sheen, debris, etc.)
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