

**2021 Revised Site Investigation and Cleanup Report  
Mason Transit Authority  
Transit Community Center Parking Lot  
Shelton, Washington**

May 21, 2020

Prepared for

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## LIST OF ABBREVIATIONS AND ACRONYMS

|                   |                                                    |
|-------------------|----------------------------------------------------|
| ARAR .....        | applicable or relevant and appropriate requirement |
| bgs.....          | below ground surface                               |
| cPAHs .....       | carcinogenic polycyclic aromatic hydrocarbons      |
| CUL.....          | cleanup level                                      |
| DRO .....         | diesel-range petroleum hydrocarbons                |
| Ecology.....      | Washington State Department of Ecology             |
| EIM .....         | Environmental Information Management               |
| EPA.....          | US Environmental Protection Agency                 |
| ft .....          | foot/feet                                          |
| GPS.....          | global positioning system                          |
| GRO .....         | gasoline-range organics                            |
| HCID .....        | petroleum hydrocarbons                             |
| ID.....           | identification                                     |
| HI.....           | hazard index                                       |
| HIS.....          | import health standard                             |
| JWM&A .....       | Jerome W. Morrisette & Associates Inc., P.S.       |
| LAI .....         | Landau Associates, Inc.                            |
| MTA.....          | Mason Transit Authority                            |
| mg/kg .....       | milligrams per kilogram                            |
| mg/L .....        | milligrams per liter                               |
| MTC.....          | Materials Testing and Consulting, Inc.             |
| MTCA .....        | Model Toxics Control Act                           |
| NFA .....         | no further action                                  |
| ORO .....         | oil range petroleum hydrocarbons                   |
| PCBs .....        | polychlorinated biphenyls                          |
| PID.....          | photoionization detector                           |
| POC .....         | point of compliance                                |
| QA/QC.....        | quality assurance/quality control                  |
| RCRA .....        | Resource Conservation and Recovery Act             |
| RCW .....         | Revised Code of Washington                         |
| T-CC.....         | Transit-Community Center                           |
| TCLP .....        | toxicity characteristic leaching procedure         |
| TEE .....         | terrestrial ecological evaluation                  |
| TEQ.....          | toxic equivalency                                  |
| TestAmerica ..... | Eurofins TestAmerica Laboratory                    |
| TPH.....          | total petroleum hydrocarbons                       |
| VCP.....          | Voluntary Cleanup Program                          |

VOC ..... volatile organic compound  
WAC ..... Washington Administrative Code

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## 1.0 INTRODUCTION

Landau Associates, Inc. (LAI) has prepared this report on behalf of Mason Transit Authority (MTA) to document a subsurface investigation and voluntary cleanup action completed in support of the proposed MTA Transit-Community Center (T-CC) parking lot redevelopment project, located at 536 Railroad Avenue in Shelton, Washington (Site). The Site location is shown on Figure 1. The Site was placed on Ecology's Confirmed and Suspected Contaminated Site List in 2017/2018 after a property purchase agreement required an evaluation of soil quality. The soil quality evaluation identified metals and petroleum hydrocarbon soil contamination due to various historical Site uses and historical releases. The Site has been enrolled in Washington State Department of Ecology's (Ecology's) Voluntary Cleanup Program (VCP) to obtain Ecology concurrence on the completed cleanup actions.

| Site Identification Information |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Site Name                       | Mason County Public Trans Site                               |
| Site Address                    | 536 W Railroad Ave., Shelton, Mason County, Washington 98584 |
| Cleanup Site ID                 | 14444                                                        |
| Facility/Site ID                | 69807                                                        |
| VCP Project ID                  | SW1634                                                       |

Abbreviations and acronyms:  
ID = Identification

This report summarizes historical investigation and cleanup action activities in 2012, characterizes environmental conditions that were present at the Site after the historical cleanup action conducted in 2017 and 2019, and summarizes additional cleanup action activities completed in 2020 as part of Site redevelopment. Site redevelopment included converting the Site from a gravel parking lot to a pervious pavement parking lot and pedestrian corridor connecting Railroad Avenue to the T-CC. The Site redevelopment required soil removal activities which were part of the final Site cleanup activities in 2020. The 2020 Site cleanup activities successfully removed contaminants from the Site and final confirmation sampling demonstrated the Site meets applicable cleanup levels. Based on the documentation in this report, a no further action (NFA) determination is requested from Ecology.

### 1.1 Site Description and History

The Site is located in the downtown core of Shelton, Washington and is surrounded by commercial properties on all sides. Prior to site redevelopment, the Site consisted of a gravel parking lot and a small building, built in the 1950s, and is currently leased to a non-profit business. The primary historical use reportedly included materials staging, storage, and loading by the Simpson Timber Company when the railway was located along the south side of the Site (MTC 2017).

## **1.2 Site Geology and Hydrogeology**

Based on a review of available information, the Site is underlain with Pleistocene-age Vashon recessional outwash (Schasse et al. 2003). Soil borings advanced during LAI's investigation, as described in Section 3.0, encountered fill material consisting of gravel with silt and/or sand; the thickness of the fill varied from 1 foot (ft) to 10 ft. Vashon recessional outwash was encountered beneath the fill and consisted of sand and gravel deposits with silt interbeds. Previous investigations by Materials Testing and Consulting, Inc. (MTC) identified fill material across the Site at variable depths, to a maximum depth of 3 ft below ground surface (bgs). Native material was identified as consisting of an upper silt and sand unit, followed by a coarse-grained recessional outwash unit. No evidence of coal or tailings (indicated as a concern in Ecology's February 21, 2019 letter) were identified during MTC's or LAI's investigations.

During LAI's investigation, groundwater was encountered at depths between 10 ft and 12 ft bgs. Previous Site investigations encountered no groundwater to the maximum depth explored, 10 ft bgs. The anticipated groundwater flow direction is to the east, towards Oakland Bay and the Puget Sound.

## 2.0 SUMMARY OF INVESTIGATION ACTIVITIES

A summary of investigation activities is provided in the following sections. A timeline of the Site history is as follows:

- 2012: Preliminary investigation and remedial activities
- 2017: Additional investigation and request for NFA
- 2019: Receipt of further action opinion letter from Ecology (February)
- 2019: Additional investigation activities
- 2020: Final cleanup of the Site (occurred as part of redevelopment activities).

### 2.1 2012 Investigation and Limited Remedial Action

Jerome W. Morrisette & Associates Inc., P.S. (JWM&A) completed a subsurface investigation on February 15, 2012. The investigation included the excavation of four test pits spread throughout the Site for the collection of soil samples. Eleven soil samples were collected and analyzed for petroleum hydrocarbon identification (HCID) and Resource Conservation and Recovery Act (RCRA) 8 metals.<sup>1</sup> The investigation concluded that shallow fill soil within the northwest portion of the Site was impacted with petroleum hydrocarbons (identified as oil-range organics) and lead. Remedial action was recommended.

A remedial action was completed during fall 2012, which included excavation of contaminated soil in the northwest portion of the Site where elevated lead levels were reported. Soils were temporarily stockpiled onsite and subsequently removed for offsite disposal. The 2012 excavation area is shown on Figure 2. Approximately 180 cubic yards of soil were removed from the Site. There is no record of the location on Site of the stockpiled soil.<sup>2</sup> The soil was hauled to Waste Management's Olympic View transfer station for disposal. The disposal permit is provided in Appendix A.

The results of the investigation and remedial action were not formally provided to Ecology, and a request for no further action was not submitted.

### 2.2 2017 Investigation

MTC completed additional assessment of the Site in 2017 (MTC 2017). The assessment was comprised of a review of the JWM&A investigation and remedial activities, as well as the advancement of 14 borings for the collection of soil samples. Borings were advanced 10 ft bgs and groundwater was not encountered. The 2017 boring locations are shown on Figure 2.

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<sup>1</sup> The RCRA 8 metals are: Arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

<sup>2</sup> Although it is unknown where the soil was stockpiled on Site, the majority of the topsoil at the Site was removed as part of the construction activities in 2020 so any soil underlying the stockpile was likely removed.

A total of 12 soil samples were analyzed for diesel-range petroleum hydrocarbons (DRO) and oil-range petroleum hydrocarbons (ORO), and RCRA 8 metals. DRO was not detected above the laboratory reporting limit. ORO was detected above the reporting limit, but below the Model Toxics Control Act (MTCA) Method A cleanup level (CUL), in one sample. No metals were detected above the MTCA Method A CUL in any sample. The report was submitted to Ecology for a formal opinion.

## **2.3 Ecology Request for Additional Investigation**

On February 21, 2019, MTA received a letter from Ecology's VCP (Ecology 2019) stating the need for additional work at the Site. Ecology identified the following five potential contamination sources:

- Potentially contaminated imported fill material
- Use of the Site as an unpaved parking lot and equipment storage lot
- Use of the Site as a staging and storage yard by Simpson Timber Company
- The presence of coal in the upper 6 to 8 inches of soil
- The historical presence of a railroad line or lines that existed on the southern end of the property or adjacent to the southern property boundary.

A sixth potential contamination source was identified by MTA and referenced by Ecology:

- Use of the Site for "discarded metals refuse and tailings."

Based on the potential contamination sources, Ecology indicated that the Site had not been assessed for all potential contaminants and requested that soil and groundwater also be analyzed for polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and carcinogenic polycyclic aromatic hydrocarbons (cPAHs). In addition, Ecology indicated that both an assessment of groundwater and potential for vapor intrusion would need to be completed.

## **2.4 2019 Subsurface Investigation**

LAI completed investigation activities in June 2019 to address Ecology's identified data gaps, and also to characterize the Site and prepare for the soil disposal needed to commence construction activities associated with property redevelopment. This investigation included the collection of soil and groundwater samples in areas of potential concern. Soil borings were advanced with a direct-push drill rig at eight locations around the Site, focusing on areas within the historical excavation area, along the property boundary, and near the existing building. Soil samples were collected from each boring, and groundwater samples were collected from three of the borings. The sampling locations are shown on Figure 3 and boring logs are included in Appendix B.

The findings of the 2019 subsurface investigation are described in Section 4.0 and include comparison of analytical results to the cleanup standards discussed in Section 3.0.



A licensed geologist from LAI supervised all drilling and sampling activities. During direct-push drilling, continuous soil cores were collected in a 2.25-inch-diameter core barrel with a removable polyethylene liner. Once the desired depth was reached, the core was extracted from the ground and the liner and soil core were removed from the core barrel. Between samples, the core sampler, including sampling points and rods, were properly decontaminated. All soil borings were advanced to 15 ft bgs. Soil borings were backfilled in accordance with Ecology regulations and the ground surface patched with like material to the original grade. Soil boring location coordinates were collected using a hand-held global positioning system (GPS) unit.

### **2.4.1 Soil Sampling**

The following general sampling protocol was applied for each boring where soil samples were collected for laboratory analysis:

- Subsurface soil was field screened for indications of potential contamination via visual and olfactory screening (sheen and odor), as well as headspace analysis using a photoionization detector (PID). Soil was visually described on field logs in general accordance with ASTM International D2488-17, *Standard Practice for Description and Identification of Soils* (Visual-Manual Procedure).
- A composite surface soil sample from a depth of 0 to 3 ft bgs was collected from six of the eight soil borings, spaced out roughly evenly across the Site, and analyzed for disposal characterization purposes. At each of the six borings, the top 0 to 3 ft bgs was composited to represent the material that was planned for disposal.
- A discreet soil sample was collected from each of the eight soil borings at the bottom of the boring or immediately above the groundwater table (where encountered). No field-evidence of contamination was observed in any of the samples; therefore, no additional sampling was conducted.
- Soil samples were analyzed for gasoline-range organics (GRO), DRO, and ORO; RCRA 8 metals; PCBs, select VOCs, and cPAHs.

Soil samples were collected in laboratory-supplied jars and submitted under proper chain-of-custody procedures to Eurofins TestAmerica Laboratory (TestAmerica) located in Fife, Washington.

### **2.4.2 Groundwater Sampling**

The direct-push borings were advanced to 15-ft bgs, which was a minimum of 4 ft into the water table, for groundwater sampling. Temporary wells, constructed of stainless steel and consisting of a 5-ft-long extendable screen section and a solid, non-slotted casing, were installed at three of the locations. The driller advanced the extendable screen section to the desired depth and pulled the casing 5 ft up to expose the screen to the water-bearing portion of the formation.

All groundwater samples were collected using a peristaltic pump and new dedicated tubing using low-flow groundwater sampling techniques, which include measuring the depth to water with an electronic groundwater level indicator, monitoring field parameters using a YSI 554 multi-parameter

probe,<sup>3</sup> and collecting water samples for laboratory analysis. Low-flow purging was performed using a peristaltic pump for a maximum of 30 minutes, or until the field parameters stabilized or the purge water was clear. To minimize volatilization, a pumping rate was maintained below 100 milliliters per minute. Groundwater samples for dissolved metals analyses were collected last and field-filtered through a 0.45-micron, in-line disposable filter.

Groundwater samples were collected in laboratory-supplied jars and submitted to TestAmerica. Groundwater samples were analyzed for GRO, DRO, and ORO; dissolved RCRA 8 metals; PCBs, select VOCs, and cPAHs.

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<sup>3</sup> Field parameters include conductivity, dissolved oxygen, oxidation-reduction potential, pH, and temperature.

## 3.0 CLEANUP STANDARDS

Cleanup standards consist of three distinct components: 1) regulatory requirements that apply to the Site (applicable state and federal laws; Washington Administrative Code [WAC] 173-340-700); 2) CULs for hazardous substances at the Site; and 3) the location(s) where the CULs must be met (i.e., the points of compliance [POCs]). This section discusses the development of cleanup standards for the Site as well as the CULs and POCs for soil and groundwater analytical data collected during the 2019 investigation and 2020 cleanup action activities.

### 3.1 ARARs

In accordance with MTCA, all cleanup actions must comply with applicable state and federal laws (WAC 173-340-710[1]). MTCA defines applicable state and federal laws to include legally applicable or relevant and appropriate requirements (ARARs). The primary ARAR is the MTCA cleanup regulation (WAC 173-340), which outlines requirements for the development of cleanup standards and procedures for development and implementation of a cleanup under MTCA. There are no applicable ARARs for groundwater at the Site because groundwater data demonstrates that it is not impacted. There are no ARARs applicable specifically for soil at the Site besides the MTCA cleanup regulations under which this investigation and cleanup was completed. Other ARARs applicable to the cleanup action in general include:

- **Washington Solid Waste Management Act (RCW 70.95) and its implementing regulation: Criteria for Municipal Solid Waste Landfills (Chapter 173-351 WAC).** These regulations establish a comprehensive statewide program for solid waste management including proper handling and disposal. The management of any contaminated soil removed from the Site would be conducted in accordance with these regulations to the extent that this soil could be managed as solid waste instead of dangerous waste.
- **Hazardous Waste Operations (WAC 296-843).** Establishes safety requirements for workers conducting investigation and cleanup operations at sites containing hazardous materials. These requirements would be applicable to onsite cleanup activities and would be addressed in a site health and safety plan prepared specifically for these activities.

Additional permitting required for construction was completed under the overall development of the Site under the Mason Transit Authority Parking Lot Retrofit project.

### 3.2 Groundwater Cleanup Levels

The standard POC for groundwater is throughout groundwater at the Site, in accordance with WAC 173-340-720(8). MTCA Method A CULs for potable groundwater were used at the Site. As indicated above, investigation results identified no impacts to groundwater above the CULs (or laboratory reporting limits); therefore, groundwater CULs are not applicable for the cleanup action.

### 3.3 Soil Cleanup Levels

The standard POC where soil cleanup levels protective of direct human contact must be met is throughout a site from the ground surface to 15 ft bgs, in accordance with WAC 173-340-740(6)(d). Consideration of soil CULs protective of groundwater is not required because there were no detections of any constituents of concern in groundwater. As provided for in WAC 173-340-747(3)(f), an empirical demonstration was used to show that measured concentrations in soil do not result in any exceedances of MTCA Method A CULs for groundwater. Soil at the Site indicates no risk of soil vapor generation or risk of vapor intrusion because total petroleum hydrocarbons (TPH) were detected only in the heavy oil-range (ORO) and TPH was not detected in groundwater.

Although MTCA requires consideration of terrestrial plants and animals that may potentially be exposed to hazardous substances, the Site qualifies for exclusion from further terrestrial ecological evaluation (TEE) under WAC 173-340-7491(1)(c) because the property is within an urban area and there is no undeveloped land on or within 500 ft of any area of the property. A VCP TEE form indicating exclusion status, and a figure that shows the 500-ft buffer around the property demonstrating that the property is within an urban area, are included in Appendix C.

Under MTCA Method B, soil cleanup levels must be at least as stringent as all of the following:

- “Concentrations established under applicable state and federal laws” (or ARARs).
  - As indicated above, there are not applicable ARARs for soil at the Site.
- “Concentrations that result in no significant adverse effects on wildlife...”
  - As demonstrated in the TEE form, the Site qualifies for an exclusion from the TEE.
- “For hazardous substances for which sufficiently protective, health-based, criteria or standards have not been established under applicable state and federal laws, those concentrations that protect human health as determined by evaluating the following exposure pathways:”
  - Groundwater protection: concentrations determined using methods described in WAC 173-340-747.
    - o As indicated above, there are no impacts to groundwater providing an empirical demonstration that soil at the Site is protective of groundwater.
  - Soil direct contact: concentrations determined using MTCA Equations 745-1 or 745-2.
    - o This exposure pathway is applicable for the Site.
  - Soil vapors.
    - o As indicated above, there is no risk for generation of soil vapors or vapor intrusion at the Site.

Based on the factors indicated above, soil CULs for the Site were selected for protection of human direct contact. Soil CULs are presented in Table 2.

Petroleum hydrocarbon CULs are based on a generic Method B total petroleum hydrocarbon CUL of 1,500 milligrams per kilogram (mg/kg) (Ecology 2017).<sup>4</sup> Total chromium was analyzed at the Site. Based on initial investigation values exceeding hexavalent chromium screening levels, hexavalent chromium was also analyzed (see discussion in Section 4.0). There were no detections of hexavalent chromium above the laboratory reporting limit and no indications of a release of hexavalent chromium. Therefore, total chromium analysis is compared to the trivalent chromium cleanup level as recommended in the note regarding chromium that is included in the February 2021 Cleanup Levels and Risk Calculation (CLARC) Tables (Ecology 2021). Method A unrestricted land use CULs were used for some constituents (arsenic, lead, and mercury) as allowable under the *Concise Explanatory Statement for the Amendments to the Model Toxics Control Act Cleanup Regulation* Chapter 173-340 WAC (Ecology 2001). Additional information about the use of Method A CUL is as follows:

- The Method A CUL is appropriate for arsenic because the Method A CUL for arsenic “...was established at a concentration equal to the estimated background concentrations of arsenic in Washington soils...” (Ecology 1991) background concentrations and as indicated in footnote “b” in MTCA Table 740-1.
- The Method A CUL is appropriate for lead because, as indicated in footnote “j” in MTCA Table 740-1, this lead CUL is a conservative value that is “based on preventing unacceptable blood lead levels”<sup>5</sup> (thereby protective of all applicable human exposure pathways).
- Similarly, the Method A CUL is applicable for mercury because the CUL is a conservative value that is appropriate for unrestricted land uses.

The total Site risk contribution from soil indicator hazardous substances (IHS) was evaluated. Risk contribution from soil is based on direct contact. IHS for soil are identified as the constituents that Ecology has identified as Site contaminations (petroleum hydrocarbons and metals) and constituents detected during 2019 investigations (cPAHs). Petroleum hydrocarbons, arsenic, mercury, and lead are not included in total Site risk because either insufficient toxicity data is available in CLARC for evaluation of carcinogenic effects or non-carcinogenic effects, or background values are used. Therefore, IHS included in the evaluation of total Site risk include other metals detected at the Site (barium, cadmium, and chromium) and cPAHs.

The only carcinogen identified for total Site risk evaluation is cPAHs; therefore, calculations are not required because the Method B CUL is already protective of excess cancer risk and does not require any adjustments for carcinogenic risk. The carcinogenic risk for the cPAH toxic equivalency (TEQ) cleanup level is  $1 \times 10^{-6}$ .

Non-carcinogen risk was evaluated based on non-cancer toxic effects and the hazard index (HI) associated with each effect. For each toxic effect, the hazard quotients for the associated compounds

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<sup>4</sup> Note that per Ecology guidance (2017), “The 1500 mg/kg level applies to situations where only TPH-Gx is present or for mixtures that include TPH-Gx. This level does not affect the Method A cleanup level of 2000 mg/kg for diesel range organics/heavy oils.” The most current Site data indicates that TPH-Gx is not present at the Site.

<sup>5</sup> Per value calculated under MTCA Equation 747-1, CUL is also lower than value protective of groundwater for vadose zone soils.

are added together to determine a HI. The HI for each toxic effect for the Site may not exceed 1. This evaluation identified only one required soil CUL adjustment: the barium CUL was adjusted from 16,000 mg/kg to 10,000 mg/kg. Non-carcinogenic risk calculations are summarized in Table 3. The CUL adjustment for barium is also identified in the final CUL selection criteria for soil in Table 2.

## 4.0 2019 INVESTIGATION RESULTS

This section describes the field screening and analytical results from the 2019 subsurface investigation. LAI reviewed the soil and groundwater laboratory analytical data for quality assurance/quality control (QA/QC) purposes, tabulated the data, and compared the results to applicable regulatory criteria (cleanup standards; Section 3.0). Laboratory analytical data reports are included in Appendix D. Waste generated during investigation activities was disposed of as non-hazardous waste; the waste manifest is included in Appendix E. Analytical results were submitted through Ecology's Environmental Information Management system (EIM; required for the VCP program) on September 30, 2019.

### 4.1.1 Field Screening

During the investigation, field screening, including VOC headspace analysis using a PID and visual and olfactory screening, was completed at all eight boring locations. Field screening identified no staining, odors, or PID reading indications of potential contamination.

### 4.1.2 Soil Analytical Results

Soil analytical results for the 14 samples (six shallow soil samples [0 to 3 ft bgs] and eight samples collected at the bottom of the soil boring or directly above the water table, where present) were compared to CULs and are presented in Table 2.

#### 4.1.2.1 Shallow Soil Samples

Analyses and a summary of shallow soil sample (0 to 3 ft) results are presented below. These shallow soil samples were collected for the purpose of planning waste disposal needs for the planned construction activities.

- GRO was not detected above the laboratory report limit in any of the samples collected. DRO, and/or ORO were detected above the laboratory reporting limit (shallow interval only) in five of the six samples. No TPH (sum of DRO + ORO) concentrations exceeded the TPH CUL.
- Metals detected above the laboratory reporting limit in shallow soil samples included arsenic, barium, cadmium, chromium, lead, and mercury. No detected metals concentrations exceeded applicable CULs. Hexavalent chromium was analyzed in the sample with the highest reported total chromium results (60 mg/kg, at MTA-B08 collected from between 0 to 2.5 ft bgs) but was not detected above the laboratory reporting limit in the sample. Therefore, all chromium results were compared to the trivalent chromium CUL.
- PCBs and VOCs were not detected above the laboratory reporting limit in any sample. Since VOCs (including GRO) were not detected in shallow soil; there is no risk to human health or the environment from VOCs to the vapor intrusion pathway in shallow soil.
- cPAHs were detected in four of the six shallow soil samples. Benzo(a)pyrene concentrations (1.9 mg/kg) and the cPAH TEQ concentrations (2.8 mg/kg) exceeded CULs in one sample collected from 0-3 ft bgs at B-06. The CUL for both benzo(a)pyrene and the cPAH TEQ is 0.19 mg/kg.

#### **4.1.2.2 Native Soil Samples**

Analyses and a summary of native soil samples (collected from the bottom of the boring or directly above the water table, where present) are presented below. These native soil samples were collected to characterize soil remaining in place after construction activities and to characterize soil directly above the groundwater.

- Petroleum hydrocarbons (GRO, DRO, ORO), PCBs, VOCs, and cPAHs were not detected above the laboratory reporting limit in any of the native soil samples. Since VOCs (including GRO) were not detected in deeper soil; there is no risk to human health or the environment from VOCs to the vapor intrusion pathway in deeper soil.
- Metals detected above the laboratory reporting limit in native soil samples included barium, cadmium, chromium, and lead. No detected metals concentrations exceeded CULs.

#### **4.1.3 Groundwater Analytical Results**

Groundwater analytical results for the three collected groundwater samples are presented in Table 3 and were compared to MTCA Method A CULs. One duplicate sample was collected at sample MTA-B02 for quality control purposes. Samples were analyzed for GRO, DRO, and ORO; RCRA 8 metals, PCBs, select VOCs, and cPAHs. None of the results for these analytes exceeded laboratory reporting limits in any sample. All laboratory reporting limits were below the CULs. Since no GRO or VOCs were detected in groundwater, there is no risk to human health or the environment from the vapor intrusion pathway.



## **5.0 2020 CLEANUP ACTION AND CONSTRUCTION OVERSIGHT ACTIVITIES**

Based on the 2019 investigation activities, a cleanup of shallow soil impacted with cPAHs was conducted at the Site as part of the redevelopment construction activities. The results of the subsurface investigation indicated that there was a localized area of soil impacted with cPAHs in the vicinity of boring B-06; analytical results for the soil sample collected between 0 and 3 ft bgs exceeded CULs for benzo(a)pyrene and the cPAH TEQ. Because Site redevelopment already included the removal of the top 1 to 3 ft of soil, the cleanup, consisting of removal and disposal of contaminated soil and excavation confirmation sampling, was integrated into Site redevelopment. A feasibility study was not required since the cleanup selected is the most permanent cleanup and the selected cleanup meets the requirements of the Model Remedy Number 4 for cleanup of sites with petroleum contaminated soils (Ecology 2017).

### **5.1 Summary of Cleanup Activities**

Construction and cleanup activities at the Site began in March 2020. Based on final redevelopment plans, contractors initially excavated the top 1 ft of soil throughout the Site. Waste characterization sampling was completed for the top 1 ft of soil stockpiled on the Site. Contaminant concentrations in soil that was left in place after the initial 1 ft of excavation, were below CULs (see Section 5.2.2). Therefore, it was demonstrated that all soil remaining in place after the initial excavation activities were below CULs.

Following the initial excavation activities, an additional 3 ft of soil was excavated, where necessary, to install the permeable pavement parking features. To ensure that all contaminated soil was removed as part of the cleanup activities, confirmation soil sampling was completed at final excavation depths (1 ft or 3 ft below initial ground surface) throughout the Site. These confirmation samples again demonstrated that all soil remaining in place after the additional excavation activities were below CULs (see Section 5.3).

### **5.2 Soil Disposal Activities**

The following soil sampling was conducted to characterize stockpiles from the initial 1 ft of soil removal and the soils remaining in-place (1 to 3 ft) for waste disposal. All samples were analyzed by TestAmerica. Equipment decontamination procedures and data QA/QC procedures were followed.

#### **5.2.1 Stockpile Sampling**

During the remedial action, the top 1 ft of soil was excavated from the Site and initially stockpiled in five separate stockpiles, named SP-A through SP-E, totaling approximately 150-cubic-yards. These stockpiles were later moved and resampled and named SP-F through SP-J. Prior to disposal, LAI collected one composite sample from each of the five stockpiles, as well as one composite sample comprised of material from each of the first five stockpiles (sample ID: MTA-SP). All 11 composite soil

samples were analyzed for cPAHs and 10 of the 11 composite soil samples were analyzed for RCRA 8 metals in order to supplement previously collected soil data and coordinate disposal.

Waste characterization analytical results are presented in Table 4. Analytical results indicate low-levels of metals, except for lead that was detected at a concentration of 300 mg/kg at stockpile SP-G and 260 mg/kg at SP-E. Follow-up toxicity characteristic leaching procedure (TCLP) lead analysis was completed; the result was 0.13 milligrams per liter (mg/L), indicating that the material does not exceed the TCLP non-hazardous waste acceptance criteria for the disposal facility. cPAHs were detected above the laboratory reporting limit in all six samples. The highest detected concentrations of benzo(a)pyrene and the cPAH TEQ were 0.12 mg/kg and 0.176 mg/kg, respectively (SP-B). The soil stockpiles consisting of the top 1-ft interval of Site soil were recommended to be disposed of at a Subtitle D landfill.

### **5.2.2 Additional Soil Characterization Sampling**

Following removal of the top 1 ft of soil, additional soil sampling was completed in the vicinity of B-06 (where the previous surface soil sample exceeded CULs for cPAHs) to determine if and how much additional cPAH-impacted soil was required to be removed, whether the soil would need to be managed as non-hazardous waste, and how much soil could be reused as clean fill. Four 2-ft deep test pits (B-09 through B-12) were excavated for this evaluation. One test pit was located adjacent to boring location B-06, and the other three test pits surrounded the B-06 boring location, approximately 15 ft to the south, northeast, and northwest. One composite soil sample from 1 to 3 ft bgs from the original grade was collected from each test pit. Samples were analyzed for cPAHs. Test pit locations are shown on Figure 3.

Soil analytical results were compared to CULs and are presented in Table 6. While cPAHs were detected above the laboratory reporting limit in three of the four samples, none of the detected cPAH concentrations exceeded CULs. The remaining soil in the 1- to 3-ft interval across the Site planned for removal was recommended to be disposed of off-site at the Waller Road Inert Landfill.

### **5.2.3 Soil Disposal**

The top foot (approximately 407 tons) of the soil from the Site that was stockpiled was transported to the Olympic View Transfer Station for final disposal at the Columbia Ridge Subtitle D landfill. Waste manifests for Subtitle D waste soil disposal are provided in Appendix E. The remaining soil from the Site was disposed of at the Waller Road Inert Landfill.

## **5.3 Soil Confirmation Sampling and Results**

Following completion of all excavation activities at the Site, soil confirmation sampling was completed to confirm that all contaminated soil was removed. Nine soil samples (B13 to B21) were collected from representative 1-ft and 3-ft excavation depth locations throughout the Site. All soil samples were

analyzed for DRO, ORO, RCRA 8 metals, PCBs, and cPAHs. Soil confirmation sample locations, as well as the final excavation depths from Site redevelopment, are shown on Figure 4.

Upon receipt of soil and groundwater laboratory results, LAI conducted a review of the analytical data for quality assurance/quality control (QA/QC) purposes, tabulated the data, and compared the results to applicable CULs. Laboratory analytical data reports are included in Appendix D. Analytical results were submitted through Ecology's EIM as required for the VCP program.

Soil confirmation sample analytical results indicate that soil contaminated with cPAHs from the initial investigation activities has been successfully removed from the Site and that no further action is required. Soil confirmation sample analytical results are presented in Table 5 and are summarized below:

- DRO and PCBs were not detected above the laboratory reporting limit in any sample.
- ORO was detected in eight of the nine samples at a maximum concentration of 220 mg/kg (B15), well below the TPH CUL (1,500 mg/kg).
- Arsenic, barium, chromium, lead, and mercury were all detected above the laboratory reporting limit in at least one sample; however, none were detected at concentrations exceeding CULs.
- cPAHs were detected above the laboratory reporting limit in eight of the nine samples. The highest cPAH TEQ was detected at a maximum concentration of 0.1129 mg/kg (B13), which is below the CUL (0.19 mg/kg).

## 6.0 SUMMARY OF RESULTS

Groundwater sampling analytical results from the 2019 Site investigation indicate that GRO, DRO, ORO (total petroleum hydrocarbons), RCRA 8 metals, PCBs, VOCs associated with petroleum hydrocarbons, and cPAHs were all not detected above the laboratory reporting limit. These results indicate that there is no evidence of a release of contaminants to groundwater.

Soil sampling analytical results from the 2019 Site investigation indicate that concentrations of GRO, DRO, ORO (TPH), RCRA 8 metals, PCBs, and VOCs were all below CULs (and GRO and VOCs were not detected above laboratory reporting limits). The absence of GRO and VOC detections in soil also indicate no risk for soil vapor generation or vapor intrusion to indoor air. The only contaminants of concern identified at the Site were cPAHs in a discreet area of the Site as shown in Figure 3.

Based on these results, and TEE exclusion, the only potential exposure pathway for the Site is human direct contact with soil. Therefore, cleanup standards for Site contaminants of concern were developed based on this exposure pathway.

Soil excavation activities in 2020, including the removal of cPAH-contaminated soil, were completed as part of Site redevelopment activities. Based on the completed cleanup action and soil confirmation sample analytical results, soils that contained cPAHs at concentrations above CULs have been successfully removed from the Site, and remaining soils at the Site do not contain concentrations of contaminants of concern above the applicable MTCA CULs. A summary table showing soil that is remaining at the Site is presented in Table 9.

It should be noted that, even if there were a concern with the CULs selected at the Site, if more restrictive CULs were used (for example, if a Method A cleanup level was selected for cPAHs, or if a different background concentration was selected for arsenic),<sup>6</sup> a statistical analysis could be completed to demonstrate compliance with alternate cleanup criteria, in accordance with Ecology guidance documents (Ecology 1992, 1993, 2015) and WAC 173-340-740(7)(d). Evaluation of the soil remaining in place at the Site (as shown in Table 9) can clearly demonstrate compliance with cleanup criteria, and would meet all the following three requirements:

- Less than 10 percent of the sample concentrations exceed the soil CUL
- No single sample concentration is greater than two times the soil CUL
- The 95 percent upper confidence limit on the true mean is less than the soil confidence interval test

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<sup>6</sup> Note that all sample results for arsenic at the Site are at concentrations at or below the Puget Sound regional background concentration of 7.3 mg/kg (Natural Background Soil Metals Concentrations in Washington State. Ecology 1994) and all but one are below the state-wide natural background concentration.

Soil data indicate that the soil quality at the Site is compliant with MTCA cleanup regulations without further remedial action. Based on these results, no evidence was identified of a potential threat to human health or the environment, and the Site cleanup is complete.

## 7.0 CONCLUSIONS

LAI completed a subsurface investigation in support of the proposed MTA Transit-Community Center (T-CC) parking lot redevelopment and cleanup action project, located at 536 Railroad Avenue in Shelton, Washington. The Site is enrolled in Ecology's VCP due to apparent releases of petroleum compounds and metals to soil. The source of the releases appear to be related to one or more historical Site uses as identified by Ecology, which include potentially contaminated imported fill material, use of the Site as an unpaved parking lot and equipment storage lot, use of the Site as a staging and storage yard by Simpson Timber Company, the presence of coal in the upper 6 to 8 inches of soil, the historical presence of a railroad line or lines that existed on the southern end of the property or adjacent to the southern property boundary, and the use of the Site for "discarded metals refuse and tailings."

LAI completed the subsurface investigation documented in this report for the purpose of addressing data gaps identified by Ecology, to assist MTA in receiving an NFA determination, and to properly characterize soil for disposal during Site construction/soil excavation activities. The subsurface investigation included the collection of soil and groundwater samples in areas of potential concern (including the historical excavation area, property boundaries, and adjacent to the existing building). No coal or discarded metals refuse or tailings were identified during the investigation activities. The investigation concluded that only a small area of cPAH-contaminated soil above cleanup levels was present. A cleanup action (soil excavation; most permanent cleanup; Model Remedy 4) was completed as part of Site development activities. Remaining soil at the Site has concentrations of contaminants below applicable cleanup levels.

The Site meets MTCA requirements for Site investigation and cleanup. The cleanup action for the Site, consisting of excavation of all soil with contaminant concentrations above applicable CULs is a "permanent cleanup action" (WAC 173-340-200), therefore, meets the substantive requirements of MTCA. On behalf of MTA, it is requested that Ecology grant a NFA determination for the Site.

## **8.0 USE OF THIS REPORT**

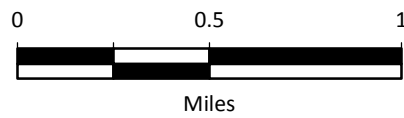
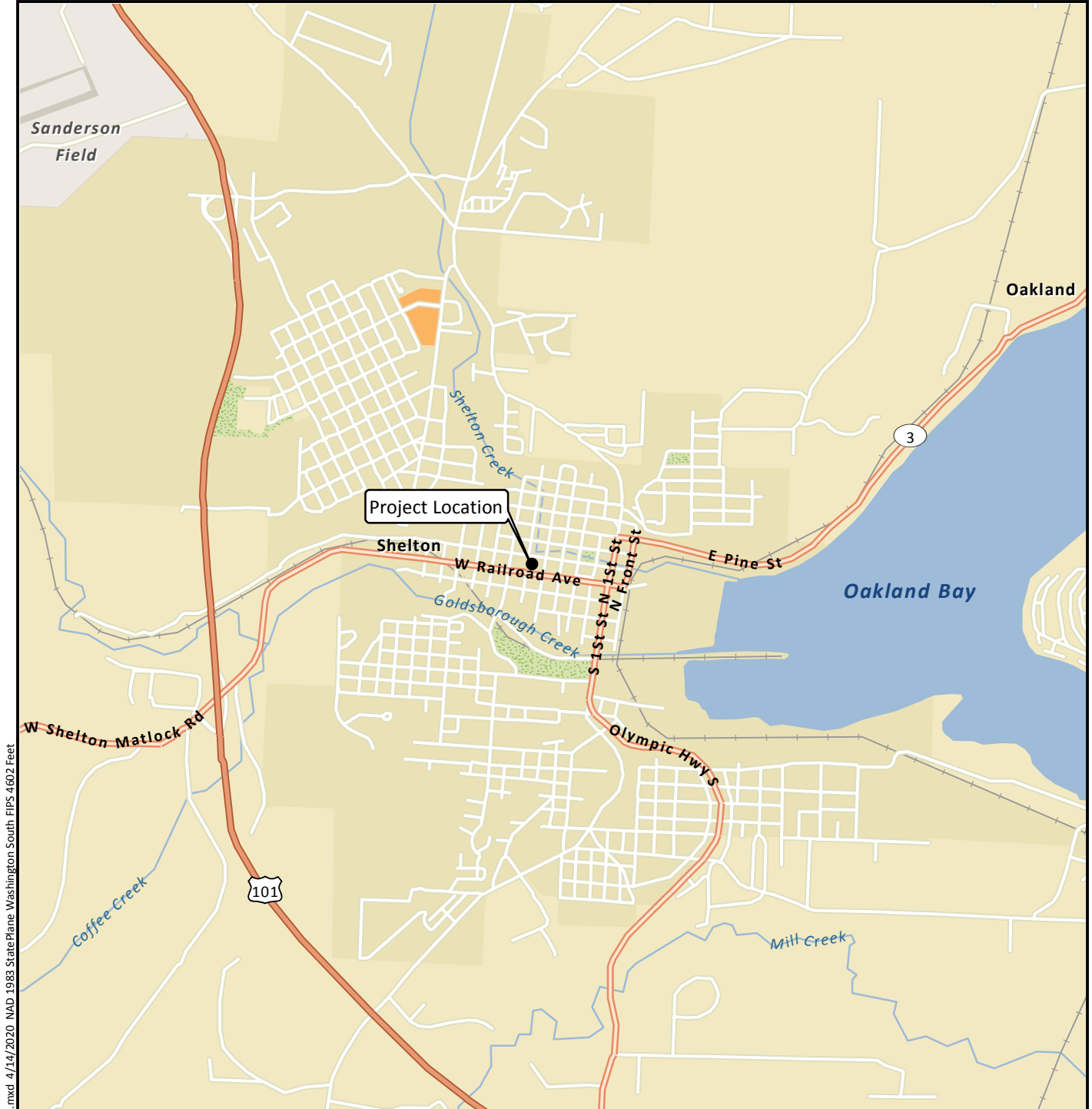
This report has been prepared for the exclusive use of MTA for the T-CC Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of LAI. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by LAI, shall be at the user's sole risk. LAI warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. LAI makes no other warranty, either express or implied.

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## 9.0 REFERENCES

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Data Source: Esri 2012

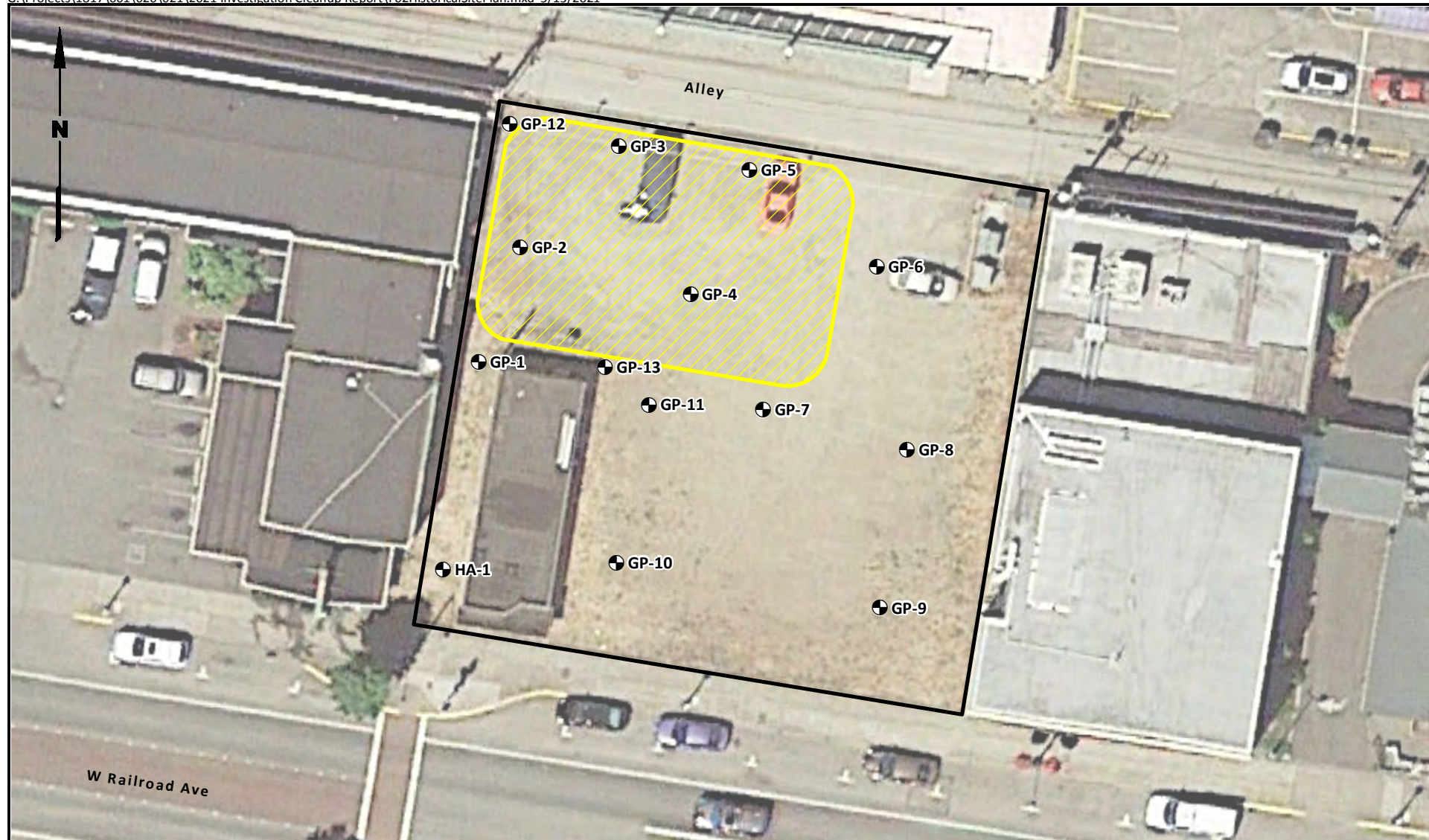


Mason Transit Authority  
T-CC Parking Lot  
Shelton, Washington

## Vicinity Map

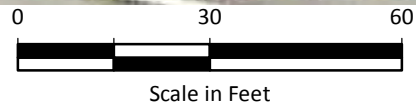
Figure  
**1**

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#### Legend

- 2017 Soil Sample
- Approximate Extent of JWM&A Excavation (2012)
- Subject Property



#### Note

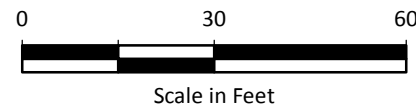
1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.





# Legend

- Shallow Soil Sample (2019)
- Deep Soil Sample (2019)
- Groundwater Sample (2019)
- Soil Characterization Sample (2020)
- Approximate Extent of JWM&A Excavation (2012)
- Subject Property
- Area with Previous cPAH Contamination (0-3 ft). Excavation of Top 3 ft Completed in 2020 (see Figure 4).



# Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Mason Transit Authority  
T-CC Parking Lot  
Shelton, WA

**2019 and 2020 Subsurface  
Investigation Sample Locations**

Figure  
**3**





#### Legend

2020 Excavated Site Surface

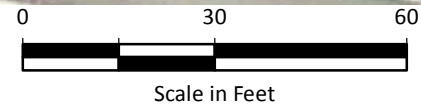
1-ft Excavation - Gravel Walkway

1-ft Excavation - Planter Area

3-ft Excavation - Permeable Pavement Area

▲ Soil Confirmation Sample (2020)

□ Subject Property



#### Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Mason Transit Authority  
T-CC Parking Lot  
Shelton, WA

**Soil Confirmation Sample Locations**

Figure  
**4**



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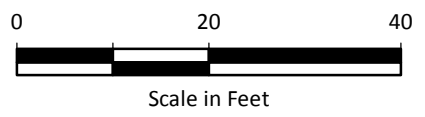
**Legend**

- ⊕ Investigation/Performance Sampling Location
- ▲ Confirmation Sampling Location
- ▭ Subject Property

- 2020 Excavated Site Surface
- 1-ft Excavation - Gravel Walkway (2020)
  - 1-ft Excavation - Planter Area (2020)
  - 3-ft Excavation - Permeable Pavement Area (2020)

|   |               |
|---|---------------|
| I | Investigation |
| P | Performance   |
| C | Confirmation  |

Grayed Shaded Samples Represent Soil that has been Removed



**Notes**

- Investigation samples were collected during the investigation phase of work. Soil represented by these samples remains in place at the site.
- Performance samples were collected during the investigation phase of work. Soil represented by these samples has since been removed from the site.
- Confirmation samples were collected after the investigation phase of work. Soil represented by these samples remains in place at the site.
- Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Data Source: Google Earth Pro.

|                                                                    |                                                             |                    |
|--------------------------------------------------------------------|-------------------------------------------------------------|--------------------|
| Mason Transit Authority<br>T-CC Parking Lot<br>Shelton, Washington | <b>Summary of 2019 and 2020<br/>Soil Sampling Locations</b> | Figure<br><b>5</b> |
|--------------------------------------------------------------------|-------------------------------------------------------------|--------------------|



**Table 1**  
**Groundwater Cleanup Levels**  
**Mason Transit Authority**  
**Shelton, Washington**

| Analyte                                                             | MTCA Method A CUL | Laboratory Reporting Limit (µg/L) | Ecology Practical Quantitation Limit (a) (µg/L) |
|---------------------------------------------------------------------|-------------------|-----------------------------------|-------------------------------------------------|
| <b>Petroleum Hydrocarbons (µg/L; NWTPH-Gx, -Dx)</b>                 |                   |                                   |                                                 |
| Gasoline Range Organics                                             | 800/1,000         | 0.25                              | 250                                             |
| Diesel Range Organics                                               | 500               | 0.24                              | 250                                             |
| Oil Range Organics                                                  | 500               | 0.40                              | 500                                             |
| <b>Dissolved Metals (µg/L; SW-846 6020D, 7470A)</b>                 |                   |                                   |                                                 |
| Arsenic                                                             | 5                 | 0.0050                            | N/A                                             |
| Barium                                                              | N/A               | 0.0060                            | N/A                                             |
| Cadmium                                                             | 5                 | 0.0020                            | 0.1                                             |
| Chromium, Total                                                     | 50                | 0.0020                            | 0.5                                             |
| Lead                                                                | 15                | 0.0040                            | 0.1                                             |
| Mercury                                                             | 2                 | 0.00030                           | N/A                                             |
| Selenium                                                            | N/A               | 0.040                             | N/A                                             |
| Silver                                                              | N/A               | 0.0020                            | N/A                                             |
| <b>Polychlorinated Biphenyls (µg/L; SW-846 8082A)</b>               |                   |                                   |                                                 |
| Aroclor 1016                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1221                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1232                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1242                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1248                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1254                                                        | N/A               | 0.10                              | 0.1                                             |
| Aroclor 1260                                                        | N/A               | 0.10                              | 0.1                                             |
| Total PCBs                                                          | 0.1               | N/A                               | N/A                                             |
| <b>Select Volatile Organic Compounds (µg/L; SW-846 8011, 8260C)</b> |                   |                                   |                                                 |
| 1,2-Dibromoethane (EDB)                                             | 0.01              | 0.0099 - 0.020                    | 0.01                                            |
| 1,2-Dichloroethane                                                  | 5                 | 0.20                              | 1                                               |
| Benzene                                                             | 5                 | 0.20                              | 1                                               |
| Ethylbenzene                                                        | 700               | 0.20                              | 1                                               |
| m-&p-Xylenes                                                        | N/A               | 0.50                              | 1                                               |
| Methyl-tert-butyl ether                                             | 20                | 0.30                              | 1                                               |
| o-Xylene                                                            | N/A               | 0.50                              | 1                                               |
| Toluene                                                             | 1,000             | 0.20                              | 1                                               |
| Total Xylenes                                                       | 1,000             | N/A                               | N/A                                             |
| <b>Semivolatile Organic Compounds (µg/L; SW-846 8270D SIM)</b>      |                   |                                   |                                                 |
| Benzo(a)anthracene                                                  | N/A               | 0.091 - 0.093                     | 0.02                                            |
| Benzo(a)pyrene                                                      | 0.1               | 0.091 - 0.093                     | 0.02                                            |
| Benzo(b)fluoranthene                                                | N/A               | 0.091 - 0.093                     | 0.02                                            |
| Benzo(k)fluoranthene                                                | N/A               | 0.091 - 0.093                     | 0.02                                            |
| Chrysene                                                            | N/A               | 0.091 - 0.093                     | 0.02                                            |
| Dibenzo(a,h)anthracene                                              | N/A               | 0.091 - 0.093                     | 0.02                                            |
| Indeno(1,2,3-cd)pyrene                                              | N/A               | 0.091 - 0.093                     | 0.02                                            |
| cPAH TEQ                                                            | 0.1               | N/A                               | N/A                                             |

**Notes:**

(a) PQLs referenced from Ecology 2016. Guidance for Remediation of Petroleum Contaminated Sites. Publication No. 10-09-057. June 2016.

**Bold** text indicates detected analyte

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

**Acronyms/Abbreviations:**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| CUL = cleanup level             | N = primary sample                    |
| EDB = ethylene dibromide        | N/A = not applicable                  |
| FD = field duplicate            | ND = not detected                     |
| ft = feet                       | PAH = polycyclic aromatic hydrocarbon |
| ID = Identification             | SIM = selected ion monitoring         |
| µg/L = micrograms per liter     | TEQ = toxicity equivalency quotient   |
| MTCA = Model Toxics Control Act |                                       |

**Table 2**  
**Soil Cleanup Levels**  
**Mason Transit Authority**  
**Shelton, Washington**

| Analyte                      | Method A<br>Unrestricted<br>(mg/kg) | Method B                                               |                                                    | Soil CUL<br>(mg/kg) | Basis for Soil CUL                                                                                                | Laboratory<br>Reporting Limit<br>(mg/kg) | Ecology Practical<br>Quantitation Limit (e)<br>(mg/kg) |
|------------------------------|-------------------------------------|--------------------------------------------------------|----------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|
|                              |                                     | Method B<br>Non-Cancer<br>Direct<br>Contact<br>(mg/kg) | Method B<br>Cancer<br>Direct<br>Contact<br>(mg/kg) |                     |                                                                                                                   |                                          |                                                        |
| Gasoline Range Organics      | 30/100                              | NA                                                     | NA                                                 | --                  |                                                                                                                   | 4.2 - 5.9                                | 5                                                      |
| Diesel Range Organics        | 2,000                               | NA                                                     | NA                                                 | --                  |                                                                                                                   | 9.8 - 58                                 | 25                                                     |
| Oil Range Organics           | 2,000                               | NA                                                     | NA                                                 | --                  |                                                                                                                   | 25 - 58                                  | 100                                                    |
| Total Petroleum Hydrocarbons | NA                                  | 1,500 (b)                                              |                                                    | 1,500               | Generic TPH Method B Cleanup Level                                                                                | N/A                                      | N/A                                                    |
| Arsenic                      | 20                                  | 24                                                     | 0.67                                               | 20                  | Method A                                                                                                          | 2.0 - 3.0                                | N/A                                                    |
| Barium                       | N/A                                 | 16,000                                                 | --                                                 | 10,000              | Method B Non-cancer Direct Contact; adjusted downward based on total site hazard index calculations, see Table 3. | 0.71 - 0.78                              | N/A                                                    |
| Cadmium                      | 2                                   | 80                                                     | --                                                 | 80                  | Method B Non-cancer Direct Contact                                                                                | 1.4 - 1.6                                | 0.1                                                    |
| Chromium, Trivalent (c)      | 2,000                               | 120,000                                                | --                                                 | 120,000             | Method B Non-cancer Direct Contact                                                                                | 1.9 - 2.0                                | 0.5 (d)                                                |
| Chromium, Hexavalent         | 19                                  | 240                                                    | --                                                 | 240                 | Method B Non-cancer Direct Contact                                                                                | 5.1 - 6.0                                | 0.5 (d)                                                |
| Lead                         | 250                                 | --                                                     | --                                                 | 250                 | Method A                                                                                                          | 2.1 - 2.4                                | 0.1                                                    |
| Mercury                      | 2                                   | --                                                     | --                                                 | 2                   | Method A                                                                                                          | 0.019 - 0.030                            | N/A                                                    |
| Selenium                     | N/A                                 | 400                                                    | --                                                 | 400                 | Method B Non-cancer Direct Contact                                                                                | 7.1 - 7.8                                | N/A                                                    |
| Silver                       | N/A                                 | 400                                                    | --                                                 | 400                 | Method B Non-cancer Direct Contact                                                                                | 3.6 - 3.9                                | N/A                                                    |
| Aroclor 1016                 | N/A                                 | 5.6                                                    | 14                                                 | 5.6                 | Method B Non-cancer Direct Contact                                                                                | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1221                 | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1232                 | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1242                 | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1248                 | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1254                 | N/A                                 | 1.6                                                    | 0.5                                                | 0.5                 | Method B Cancer Direct Contact                                                                                    | 0.0096 - 0.023                           | 0.04                                                   |
| Aroclor 1260                 | N/A                                 | --                                                     | 0.5                                                | 0.5                 | Method B Cancer Direct Contact                                                                                    | 0.0096 - 0.023                           | 0.04                                                   |
| Total PCBs                   | 1                                   | --                                                     | 0.5                                                | 0.5                 | Method B Cancer Direct Contact                                                                                    | N/A                                      | N/A                                                    |
| 1,2-Dibromoethane (EDB)      | 0.005                               | 720                                                    | 0.5                                                | 0.5                 | Method B Cancer Direct Contact                                                                                    | 0.00076 - 0.0012                         | 0.001                                                  |
| 1,2-Dichloroethane           | N/A                                 | 480                                                    | 11                                                 | 11                  | Method B Cancer Direct Contact                                                                                    | 0.00076 - 0.0012                         | 0.001                                                  |
| Benzene                      | 0.03                                | 320                                                    | 18                                                 | 18                  | Method B Cancer Direct Contact                                                                                    | 0.0015 - 0.0024                          | 0.005                                                  |
| Ethylbenzene                 | 6                                   | 8,000                                                  | --                                                 | 8000                | Method B Cancer Direct Contact                                                                                    | 0.0015 - 0.0024                          | 0.005                                                  |
| m-&p-Xylenes                 | N/A                                 | 16,000                                                 | --                                                 | 16000               | Method B Cancer Direct Contact                                                                                    | 0.0076 - 0.012                           | 0.005 for each isomer                                  |
| Methyl-tert-butyl ether      | 0.1                                 | --                                                     | 560                                                | 560                 | Method B Non-cancer Direct Contact                                                                                | 0.0015 - 0.0024                          | 0.001                                                  |
| o-Xylene                     | N/A                                 | 16,000                                                 | --                                                 | 16,000              | Method B Cancer Direct Contact                                                                                    | 0.0038 - 0.006                           | 0.005                                                  |
| Toluene                      | 7                                   | 6,400                                                  | --                                                 | 6,400               | Method B Cancer Direct Contact                                                                                    | 0.0076 - 0.012                           | 0.005                                                  |
| Total Xylenes                | 9                                   | 16,000                                                 | --                                                 | 16,000              | Method B Cancer Direct Contact                                                                                    | N/A                                      | N/A                                                    |
| Benzo(a)anthracene           | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.028                           | 0.05                                                   |
| Benzo(a)pyrene               | 0.1                                 | 24                                                     | 0.19                                               | 0.19                | Method B Cancer Direct Contact                                                                                    | 0.0049 - 0.028                           | 0.05                                                   |
| Benzo(b)fluoranthene         | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.11                            | 0.05                                                   |
| Benzo(k)fluoranthene         | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.028                           | 0.05                                                   |
| Chrysene                     | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.11                            | 0.05                                                   |
| Dibenzo(a,h)anthracene       | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.028                           | 0.05                                                   |
| Indeno(1,2,3-cd)pyrene       | N/A                                 | --                                                     | --                                                 | --                  |                                                                                                                   | 0.0049 - 0.028                           | 0.05                                                   |
| cPAH TEQ                     | 0.1                                 | 24                                                     | 0.19                                               | 0.19                | Method B Cancer Direct Contact                                                                                    | N/A                                      | N/A                                                    |

**Notes:**

- (a) Washington State 90<sup>th</sup> percentile value as determined by the total method (USGS. 1995. *Background Concentrations of Metals in Soils from Selected Regions in the State of Washington*. Ames, Kenneth C. and Edmund A. Prych. U.S. Geological Survey (USGS), Water Resources Investigations Report 95-4018.)
- (b) Generic Method B CUL value for TPH based on Ecology Model Remedies Guidance (Ecology. 2017. *Model Remedies for Sites with Petroleum Contaminated Soils*; edited by Toxics Cleanup Program: Washington State Department of Ecology).
- (c) Hexavalent chromium was not detected above the laboratory reporting limit in any sample, therefore the trivalent chromium cleanup level is used for total chromium results.
- (d) The Ecology practical quantitation limit is for total chromium.
- (e) PQLs referenced from Ecology 2016. Guidance for Remediation of Petroleum Contaminated Sites. Publication No. 10-09-057. June 2016.

**Acronyms/Abbreviations:**

MTCA = Model Toxics Control Act

N/A = not applicable

cPAH = carcinogenic polycyclic aromatic hydrocarbon

TEQ = toxicity equivalency quotient

TPH = total petroleum hydrocarbons

**Table 3**  
**Total Site Risk - Non-Carcinogenic Site Risk**  
**TCC-Parking Lot**  
**Shelton, Washington**

| Analyte (a)                               | Unadjusted pCUL (b) | Adjusted Soil CUL | Constituent Concentration in Soil at HQ = 1 (c) | HQ at Adjusted CUL (d) | Developmental Toxicity: HQ Risk at CUL | Urinary: HQ Risk at CUL | Immunological Toxicity: HQ Risk at CUL | Reproductive toxicity: HQ Risk at CUL | Other/Not Specified: HQ Risk at CUL |
|-------------------------------------------|---------------------|-------------------|-------------------------------------------------|------------------------|----------------------------------------|-------------------------|----------------------------------------|---------------------------------------|-------------------------------------|
| <b>TOTAL METALS (mg/kg)</b>               |                     |                   |                                                 |                        |                                        |                         |                                        |                                       |                                     |
| Barium                                    | 16000               | 10000             | 16000                                           | 6.25E-01               |                                        | 6.25E-01                |                                        |                                       |                                     |
| Cadmium                                   | 2                   | 2                 | 80                                              | 2.50E-02               |                                        | 2.50E-02                |                                        |                                       |                                     |
| Chromium                                  | 2000                | 2000              | 120000                                          | 1.67E-02               |                                        |                         |                                        |                                       | 1.67E-02                            |
| <b>PAHs (mg/kg)</b>                       |                     |                   |                                                 |                        |                                        |                         |                                        |                                       |                                     |
| Total cPAH TEQ                            | 1.9                 | 1.9               | 24                                              | 7.92E-02               | 7.92E-02                               |                         | 7.92E-02                               | 7.92E-02                              |                                     |
| <b>Total HI at Adjusted Soil pCUL (e)</b> |                     |                   |                                                 |                        | <b>7.92E-02</b>                        | <b>6.50E-01</b>         | <b>7.92E-02</b>                        | <b>7.92E-02</b>                       | <b>1.67E-02</b>                     |

**Notes:**

- (a) Non-carcinogenic indicator hazardous substance.
- (b) Unadjusted pCUL is after adjustment for carcinogenic risk as shown on Table 9, if constituent is a carcinogen.
- (c) Constituent concentration in soil or groundwater at HQ = 1 is equal to the direct contact CUL.
- (d) HQ at adjusted CUL = adjusted soil CUL divided by the constituent concentration at HQ = 1.
- (e) Total HI at surface water CUL.
- (f) Total HI at soil CUL.
- (g) No associated HQ risk for this toxic effect.

**Abbreviations/Acronyms:**

CUL = cleanup level  
 HI = hazard index  
 HQ = hazard quotient  
 µg/L = micrograms per liter  
 mg/kg = milligrams per kilogram  
 pCUL = preliminary cleanup level



Table 4  
2019 Subsurface Investigation Soil Analytical Results  
Mason Transit Authority  
Shelton, Washington

| Analyte                                         | CUL     | Sample Location, Sample Depth Interval, Sample Date, Sample Type, Lab Sample ID |                                                         |                                                    |                                                        |                                                    |                                                       |                                                           |                                                      |                                                     |                                                    |                                                        |                                                        |                                                      |                                                        |               |
|-------------------------------------------------|---------|---------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|---------------|
|                                                 |         | MTA-B01<br>0-3 ft<br>6/25/2019<br>N<br>580-87175-12                             | MTA-B01<br>7.3-8.3 ft<br>6/25/2019<br>N<br>580-87175-13 | MTA-B02<br>0-3 ft<br>6/26/2019<br>N<br>580-87205-4 | MTA-B02<br>5.5-6.5 ft<br>6/26/2019<br>N<br>580-87205-5 | MTA-B03<br>0-3 ft<br>6/25/2019<br>N<br>580-87175-7 | MTA-B03<br>7-10.5 ft<br>6/25/2019<br>N<br>580-87175-3 | MTA-B04<br>10.5-11.5 ft<br>6/25/2019<br>N<br>580-87175-11 | MTA-B05<br>0-2.4 ft<br>6/25/2019<br>N<br>580-87175-9 | MTA-B05<br>8-9 ft<br>6/25/2019<br>N<br>580-87175-10 | MTA-B06<br>0-3 ft<br>6/26/2019<br>N<br>580-87205-3 | MTA-B06<br>7.5-8.5 ft<br>6/25/2019<br>N<br>580-87175-8 | MTA-B07<br>6.5-7.5 ft<br>6/26/2019<br>N<br>580-87205-8 | MTA-B08<br>0-2.5 ft<br>6/25/2019<br>N<br>580-87175-4 | MTA-B08<br>7.5-8.5 ft<br>6/25/2019<br>N<br>580-87175-5 |               |
|                                                 |         | Sample Type:                                                                    | Investigation                                           | Investigation                                      | Performance                                            | Investigation                                      | Investigation                                         | Investigation                                             | Investigation                                        | Investigation                                       | Performance                                        | Investigation                                          | Performance                                            | Investigation                                        | Investigation                                          | Investigation |
|                                                 |         | Petroleum Hydrocarbons (mg/kg; NWTPH-Gx, -Dx)                                   |                                                         |                                                    |                                                        |                                                    |                                                       |                                                           |                                                      |                                                     |                                                    |                                                        |                                                        |                                                      |                                                        |               |
| Gasoline Range Organics                         | N/A     | 4.5 U                                                                           | 4.4 U                                                   | 5.9 U                                              | 5.5 U                                                  | 4.8 U                                              | 4.7 U                                                 | 4.2 UJ                                                    | 4.9 U                                                | 4.2 U                                               | 5.2 U                                              | 4.4 U                                                  | 5.1 U                                                  | 5.0 U                                                | 4.3 U                                                  |               |
| Diesel Range Organics                           | N/A     | 10                                                                              | 10 U                                                    | 12 U                                               | 10 U                                                   | 13                                                 | 10 U                                                  | 9.9 U                                                     | 9.8 U                                                | 9.9 U                                               | 45                                                 | 9.8 U                                                  | 11 U                                                   | 87                                                   | 9.9 U                                                  |               |
| Oil Range Organics                              | N/A     | 69                                                                              | 25 U                                                    | 29 U                                               | 25 U                                                   | 71                                                 | 25 U                                                  | 25 U                                                      | 35                                                   | 25 U                                                | 130                                                | 25 U                                                   | 27 U                                                   | 480                                                  | 25 U                                                   |               |
| Total Petroleum Hydrocarbons                    | 1,500   | 79                                                                              | 25 U                                                    | 29 U                                               | 25 U                                                   | 84                                                 | 25 U                                                  | 25 U                                                      | 35                                                   | 25 U                                                | 175                                                | 25 U                                                   | 27 U                                                   | 567                                                  | 25 U                                                   |               |
| Total Metals (mg/kg; SW-846 6020C, 7470A)       |         |                                                                                 |                                                         |                                                    |                                                        |                                                    |                                                       |                                                           |                                                      |                                                     |                                                    |                                                        |                                                        |                                                      |                                                        |               |
| Arsenic                                         | 20      | 2.2 U                                                                           | 2.1 U                                                   | 2.8 U                                              | 2.3 U                                                  | 2.8                                                | 2.3 U                                                 | 2.2 U                                                     | 2.2 U                                                | 2.7                                                 | 2.4 U                                              | 2.5                                                    | 2.5 U                                                  | 2.2 U                                                | 2.2 U                                                  |               |
| Barium                                          | 10,000  | 45                                                                              | 23                                                      | 56                                                 | 33                                                     | 64                                                 | 22                                                    | 22                                                        | 36                                                   | 21                                                  | 64                                                 | 24                                                     | 33                                                     | 64                                                   | 21                                                     |               |
| Cadmium                                         | 80      | 0.83                                                                            | 0.71 U                                                  | 0.95                                               | 0.77 U                                                 | 0.86                                               | 0.76                                                  | 0.73                                                      | 0.92                                                 | 0.68 U                                              | 0.81 U                                             | 0.81 U                                                 | 0.82 U                                                 | 0.79                                                 | 0.74 U                                                 |               |
| Chromium, Total (a)                             | 120,000 | 56                                                                              | 36                                                      | 77                                                 | 63                                                     | 53                                                 | 33                                                    | 39                                                        | 57                                                   | 35                                                  | 57                                                 | 42                                                     | 54 J                                                   | 60                                                   | 41                                                     |               |
| Chromium, Hexavalent                            | 240     | --                                                                              | --                                                      | 5.9 U                                              | --                                                     | --                                                 | --                                                    | --                                                        | --                                                   | --                                                  | --                                                 | --                                                     | --                                                     | 5.1 UJ                                               | --                                                     |               |
| Lead                                            | 250     | 41                                                                              | 1.1                                                     | 7.7                                                | 9.3                                                    | 81                                                 | 2.2                                                   | 1.1 U                                                     | 50                                                   | 1.2                                                 | 130                                                | 1.2 U                                                  | 1.2 U                                                  | 100                                                  | 1.1 U                                                  |               |
| Mercury                                         | 2       | 0.028                                                                           | 0.025 U                                                 | 0.037                                              | 0.026 U                                                | 0.034                                              | 0.025 U                                               | 0.019 U                                                   | 0.025 U                                              | 0.019 U                                             | 0.044                                              | 0.024 U                                                | 0.025 U                                                | 0.040                                                | 0.020 U                                                |               |
| Selenium                                        | 400     | 3.7 U                                                                           | 3.5 U                                                   | 4.7 U                                              | 3.8 U                                                  | 3.6 U                                              | 3.8 U                                                 | 3.6 U                                                     | 3.6 U                                                | 3.4 U                                               | 4.1 U                                              | 4.1 U                                                  | 4.1 U                                                  | 3.6 U                                                | 3.7 U                                                  |               |
| Silver                                          | 400     | 1.9 U                                                                           | 1.8 U                                                   | 2.4 U                                              | 1.9 U                                                  | 1.8 U                                              | 1.9 U                                                 | 1.8 U                                                     | 1.8 U                                                | 1.7 U                                               | 2.0 U                                              | 2.0 U                                                  | 2.1 U                                                  | 1.8 U                                                | 1.9 U                                                  |               |
| TCLP Metals (mg/L; SW-846 6020C)                |         |                                                                                 |                                                         |                                                    |                                                        |                                                    |                                                       |                                                           |                                                      |                                                     |                                                    |                                                        |                                                        |                                                      |                                                        |               |
| Lead                                            | 5 (b)   | --                                                                              | --                                                      | --                                                 | --                                                     | --                                                 | --                                                    | --                                                        | --                                                   | --                                                  | 0.033                                              | --                                                     | --                                                     | --                                                   | --                                                     |               |
| Polychlorinated Biphenyls (mg/kg; SW-846 8082A) |         |                                                                                 |                                                         |                                                    |                                                        |                                                    |                                                       |                                                           |                                                      |                                                     |                                                    |                                                        |                                                        |                                                      |                                                        |               |
| Aroclor 1016                                    | 5.6     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1221                                    | N/A     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1232                                    | N/A     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1242                                    | N/A     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1248                                    | N/A     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1254                                    | 0.5     | 0.01                                                                            | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.021                                              | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Aroclor 1260                                    | 0.5     | 0.0096 U                                                                        | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.01 U                                             | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |
| Total PCBs                                      | 0.5     | 0.01                                                                            | 0.01 U                                                  | 0.012 U                                            | 0.011 U                                                | 0.021                                              | 0.0097 U                                              | 0.01 U                                                    | 0.01 U                                               | 0.0096 U                                            | 0.01 U                                             | 0.0097 U                                               | 0.01 U                                                 | 0.01 U                                               | 0.0098 U                                               |               |

Table 4  
2019 Subsurface Investigation Soil Analytical Results  
Mason Transit Authority  
Shelton, Washington

| Analyte                                                  | CUL    | Sample Location, Sample Depth Interval, Sample Date, Sample Type, Lab Sample ID |              |             |             |             |             |              |             |              |             |             |             |             |             |
|----------------------------------------------------------|--------|---------------------------------------------------------------------------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
|                                                          |        | MTA-B01                                                                         | MTA-B01      | MTA-B02     | MTA-B02     | MTA-B03     | MTA-B03     | MTA-B04      | MTA-B05     | MTA-B05      | MTA-B06     | MTA-B06     | MTA-B07     | MTA-B08     | MTA-B08     |
|                                                          |        | 0-3 ft                                                                          | 7.3-8.3 ft   | 0-3 ft      | 5.5-6.5 ft  | 0-3 ft      | 7-10.5 ft   | 10.5-11.5 ft | 0-2.4 ft    | 8-9 ft       | 0-3 ft      | 7.5-8.5 ft  | 6.5-7.5 ft  | 0-2.5 ft    | 7.5-8.5 ft  |
|                                                          |        | 6/25/2019                                                                       | 6/25/2019    | 6/26/2019   | 6/26/2019   | 6/25/2019   | 6/25/2019   | 6/25/2019    | 6/25/2019   | 6/25/2019    | 6/26/2019   | 6/25/2019   | 6/26/2019   | 6/25/2019   | 6/25/2019   |
|                                                          |        | N                                                                               | N            | N           | N           | N           | N           | N            | N           | N            | N           | N           | N           | N           | N           |
|                                                          |        | 580-87175-12                                                                    | 580-87175-13 | 580-87205-4 | 580-87205-5 | 580-87175-7 | 580-87175-3 | 580-87175-11 | 580-87175-9 | 580-87175-10 | 580-87205-3 | 580-87175-8 | 580-87205-8 | 580-87175-4 | 580-87175-5 |
| Select Volatile Organic Compounds (mg/kg; SW-846 8260C)  |        |                                                                                 |              |             |             |             |             |              |             |              |             |             |             |             |             |
| 1,2-Dibromoethane (EDB)                                  | 0.5    | 0.00076 UJ                                                                      | 0.0012 U     | 0.00096 UJ  | 0.0011 U    | 0.00085 UJ  | 0.00096 UJ  | 0.00089 U    | 0.00083 UJ  | 0.00085 U    | 0.00086 UJ  | 0.00086 U   | 0.00089 UJ  | 0.00093 U   | 0.00086 U   |
| 1,2-Dichloroethane                                       | 11     | 0.00076 UJ                                                                      | 0.0012 U     | 0.00085 UJ  | 0.0010 U    | 0.00085 UJ  | 0.00096 UJ  | 0.00089 U    | 0.00083 UJ  | 0.00085 U    | 0.0010 UJ   | 0.00086 U   | 0.00092 UJ  | 0.00093 U   | 0.00086 U   |
| Benzene                                                  | 18     | 0.0015 UJ                                                                       | 0.0024 U     | 0.0017 UJ   | 0.0020 U    | 0.0017 UJ   | 0.0019 UJ   | 0.0018 U     | 0.0017 UJ   | 0.0017 U     | 0.0020 UJ   | 0.0017 U    | 0.0018 UJ   | 0.0019 U    | 0.0017 U    |
| Ethylbenzene                                             | 8,000  | 0.0015 UJ                                                                       | 0.0024 U     | 0.0017 UJ   | 0.0020 U    | 0.0017 UJ   | 0.0019 UJ   | 0.0018 U     | 0.0017 UJ   | 0.0017 U     | 0.0020 UJ   | 0.0017 U    | 0.0018 UJ   | 0.0019 U    | 0.0017 U    |
| m-&p-Xylenes                                             | 16,000 | 0.0076 UJ                                                                       | 0.012 U      | 0.0085 UJ   | 0.01 U      | 0.0085 UJ   | 0.0096 UJ   | 0.0089 U     | 0.0083 UJ   | 0.0085 U     | 0.01 UJ     | 0.0086 U    | 0.0092 UJ   | 0.0093 U    | 0.0086 U    |
| Methyl-tert-butyl ether                                  | 560    | 0.0015 UJ                                                                       | 0.0024 U     | 0.0019 UJ   | 0.0022 U    | 0.0017 UJ   | 0.0019 UJ   | 0.0018 U     | 0.0017 UJ   | 0.0017 U     | 0.0017 UJ   | 0.0017 U    | 0.0018 UJ   | 0.0019 U    | 0.0017 U    |
| o-Xylene                                                 | 16,000 | 0.0038 UJ                                                                       | 0.0060 U     | 0.0042 UJ   | 0.0051 U    | 0.0043 UJ   | 0.0048 UJ   | 0.0045 U     | 0.0041 UJ   | 0.0042 U     | 0.0050 UJ   | 0.0043 U    | 0.0046 UJ   | 0.0046 U    | 0.0043 U    |
| Toluene                                                  | 6,400  | 0.0076 UJ                                                                       | 0.012 U      | 0.0085 UJ   | 0.01 U      | 0.0085 UJ   | 0.0096 UJ   | 0.0089 U     | 0.0083 UJ   | 0.0085 U     | 0.01 UJ     | 0.0086 U    | 0.0092 UJ   | 0.0093 U    | 0.0086 U    |
| Total Xylenes                                            | 16,000 | 0.0076 UJ                                                                       | 0.012 U      | 0.0085 UJ   | 0.01 U      | 0.0085 UJ   | 0.0096 UJ   | 0.0089 U     | 0.0083 UJ   | 0.0085 U     | 0.01 UJ     | 0.0086 U    | 0.0092 UJ   | 0.0093 U    | 0.0086 U    |
| Semivolatile Organic Compounds (mg/kg; SW-846 8270D SIM) |        |                                                                                 |              |             |             |             |             |              |             |              |             |             |             |             |             |
| Benzo(a)anthracene                                       | N/A    | 0.0099 U                                                                        | 0.01 U       | 0.012 U     | 0.01 U      | 0.017       | 0.01 U      | 0.01 U       | 0.01 U      | 0.0098 U     | 2.4         | 0.01 U      | 0.01 U      | 0.021       | 0.0099 U    |
| Benzo(a)pyrene                                           | 0.19   | 0.0099 U                                                                        | 0.01 U       | 0.012 U     | 0.01 U      | 0.021       | 0.01 U      | 0.01 U       | 0.01 U      | 0.0098 U     | 1.9         | 0.01 U      | 0.01 U      | 0.025       | 0.0099 U    |
| Benzo(b)fluoranthene                                     | N/A    | 0.023                                                                           | 0.01 U       | 0.012 U     | 0.01 U      | 0.034       | 0.01 U      | 0.01 U       | 0.014       | 0.0098 U     | 3.0         | 0.01 U      | 0.01 U      | 0.029       | 0.0099 U    |
| Benzo(k)fluoranthene                                     | N/A    | 0.0099 U                                                                        | 0.01 U       | 0.012 U     | 0.01 U      | 0.013       | 0.01 U      | 0.01 U       | 0.01 U      | 0.0098 U     | 1.1         | 0.01 U      | 0.01 U      | 0.01 U      | 0.0099 U    |
| Chrysene                                                 | N/A    | 0.017                                                                           | 0.01 U       | 0.012 U     | 0.01 U      | 0.027       | 0.01 U      | 0.01 U       | 0.014       | 0.0098 U     | 2.6         | 0.01 U      | 0.01 U      | 0.032       | 0.0099 U    |
| Dibenzo(a,h)anthracene                                   | N/A    | 0.0099 U                                                                        | 0.01 U       | 0.012 U     | 0.01 U      | 0.01 U      | 0.01 U      | 0.01 U       | 0.01 U      | 0.0098 U     | 0.47        | 0.01 U      | 0.01 U      | 0.01 U      | 0.0099 U    |
| Indeno(1,2,3-cd)pyrene                                   | N/A    | 0.0099 U                                                                        | 0.01 U       | 0.012 U     | 0.01 U      | 0.015       | 0.01 U      | 0.01 U       | 0.01 U      | 0.0098 U     | 1.3         | 0.01 U      | 0.01 U      | 0.013       | 0.0099 U    |
| cPAH TEQ (ND=1/2 RL)                                     | 0.19   | 0.0094                                                                          | 0.0076 U     | 0.0091 U    | 0.0076 U    | 0.030       | 0.0076 U    | 0.0076 U     | 0.0085      | 0.0074 U     | 2.8         | 0.0076 U    | 0.0076 U    | 0.033       | 0.0075 U    |

**Notes:**  
**Bold** text indicates detected analyte  
Green shading indicates detected analyte exceeds applicable cleanup level  
1. Investigations samples were collected to investigate site conditions. Performance samples were also collected to investigate site conditions, but the soil has since been excavated and is no longer in place.  
2. For summing purposes if the sample results were all non-detect, the greatest reporting limit is used for the total value.  
(a) Hexavalent chromium was not detected above the laboratory reporting limit in any sample, therefore total chromium results are representative of trivalent chromium and the trivalent cleanup level is used.  
(b) Maximum concentration of contaminants for the toxicity characteristic; Washington Administrative Code 173-303-090.  
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  
U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.  
UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**Acronyms/Abbreviations:**  
CUL = cleanup level  
EDB = ethylene dibromide  
FD = field duplicate  
ft = feet  
ID = Identification  
µg/kg = micrograms per kilogram  
MTCA = Model Toxics Control Act  
N = primary sample  
-- = not analyzed  
N/A = not applicable  
PAH = polycyclic aromatic hydrocarbon  
RL = reporting limit  
SIM = selected ion monitoring  
TCLP = toxicity characteristic leaching procedure  
TEQ = toxicity equivalency quotient

**Table 5**  
**2019 Subsurface Investigation Groundwater Analytical Results**  
**Mason Transit Authority**  
**Shelton, Washington**

Page 1 of 1

| Analyte                                                      | MTCA<br>Method A<br>CUL | Sample Location, Sample End Depth, Sample Date, Sample Type, Laboratory Sample ID |                                                    |                                                   |                                                   |  |
|--------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--|
|                                                              |                         | MTA-B02<br>14 ft<br>6/26/2019<br>N<br>580-87205-6                                 | MTA-B02<br>14 ft<br>6/26/2019<br>FD<br>580-87205-7 | MTA-B07<br>14 ft<br>6/26/2019<br>N<br>580-87205-9 | MTA-B08<br>14 ft<br>6/25/2019<br>N<br>580-87175-6 |  |
|                                                              |                         | Investigation                                                                     | Investigation                                      | Investigation                                     | Investigation                                     |  |
|                                                              |                         | Sample Type:                                                                      |                                                    |                                                   |                                                   |  |
|                                                              |                         | Investigation                                                                     |                                                    |                                                   |                                                   |  |
| Petroleum Hydrocarbons (µg/L; NWTPH-Gx, -Dx)                 |                         |                                                                                   |                                                    |                                                   |                                                   |  |
| Gasoline Range Organics                                      | 800/1,000               | 250 U                                                                             | 250 U                                              | 250 U                                             | 250 U                                             |  |
| Diesel Range Organics                                        | 500                     | 240 U                                                                             | 240 U                                              | 240 U                                             | 240 U                                             |  |
| Oil Range Organics                                           | 500                     | 400 U                                                                             | 400 U                                              | 400 U                                             | 400 U                                             |  |
| Dissolved Metals (µg/L; SW-846 6020D, 7470A)                 |                         |                                                                                   |                                                    |                                                   |                                                   |  |
| Arsenic                                                      | 5                       | 5.0 U                                                                             | 5.0 U                                              | 5.0 U                                             | 5.0 U                                             |  |
| Barium                                                       | N/A                     | 6.0 U                                                                             | 6.0 U                                              | 6.0 U                                             | 6.0 U                                             |  |
| Cadmium                                                      | 5                       | 2.0 U                                                                             | 2.0 U                                              | 2.0 U                                             | 2.0 U                                             |  |
| Chromium, Total                                              | 50                      | 2.0 U                                                                             | 2.0 U                                              | 2.0 U                                             | 2.0 U                                             |  |
| Lead                                                         | 15                      | 4.0 U                                                                             | 4.0 U                                              | 4.0 U                                             | 4.0 U                                             |  |
| Mercury                                                      | 2                       | 0.30 U                                                                            | 0.30 U                                             | 0.30 U                                            | 0.30 U                                            |  |
| Selenium                                                     | N/A                     | 40 U                                                                              | 40 U                                               | 40 U                                              | 40 U                                              |  |
| Silver                                                       | N/A                     | 2.0 U                                                                             | 2.0 U                                              | 2.0 U                                             | 2.0 U                                             |  |
| Polychlorinated Biphenyls (µg/L; SW-846 8082A)               |                         |                                                                                   |                                                    |                                                   |                                                   |  |
| Aroclor 1016                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1221                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1232                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1242                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1248                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1254                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Aroclor 1260                                                 | N/A                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Total PCBs                                                   | 0.1                     | 0.10 U                                                                            | 0.10 U                                             | 0.10 U                                            | 0.10 U                                            |  |
| Select Volatile Organic Compounds (µg/L; SW-846 8011, 8260C) |                         |                                                                                   |                                                    |                                                   |                                                   |  |
| 1,2-Dibromoethane (EDB)                                      | 0.01                    | 0.010 U                                                                           | 0.020 U                                            | 0.0099 U                                          | 0.0099 U                                          |  |
| 1,2-Dichloroethane                                           | 5                       | 0.20 U                                                                            | 0.20 U                                             | 0.20 U                                            | 0.20 U                                            |  |
| Benzene                                                      | 5                       | 0.20 U                                                                            | 0.20 U                                             | 0.20 U                                            | 0.20 U                                            |  |
| Ethylbenzene                                                 | 700                     | 0.20 U                                                                            | 0.20 U                                             | 0.20 U                                            | 0.20 U                                            |  |
| m-&p-Xylenes                                                 | N/A                     | 0.50 U                                                                            | 0.50 U                                             | 0.50 U                                            | 0.50 U                                            |  |
| Methyl-tert-butyl ether                                      | 20                      | 0.30 U                                                                            | 0.30 U                                             | 0.30 U                                            | 0.30 U                                            |  |
| o-Xylene                                                     | N/A                     | 0.50 U                                                                            | 0.50 U                                             | 0.50 U                                            | 0.50 U                                            |  |
| Toluene                                                      | 1,000                   | 0.20 U                                                                            | 0.20 U                                             | 0.20 U                                            | 0.20 U                                            |  |
| Total Xylenes                                                | 1,000                   | 0.50 U                                                                            | 0.50 U                                             | 0.50 U                                            | 0.50 U                                            |  |
| Semivolatile Organic Compounds (µg/L; SW-846 8270D SIM)      |                         |                                                                                   |                                                    |                                                   |                                                   |  |
| Benzo(a)anthracene                                           | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Benzo(a)pyrene                                               | 0.1                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Benzo(b)fluoranthene                                         | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Benzo(k)fluoranthene                                         | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Chrysene                                                     | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Dibenzo(a,h)anthracene                                       | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| Indeno(1,2,3-cd)pyrene                                       | N/A                     | 0.091 U                                                                           | 0.093 U                                            | 0.091 U                                           | 0.091 U                                           |  |
| cPAH TEQ (ND=1/2 RL)                                         | 0.1                     | 0.069 U                                                                           | 0.070 U                                            | 0.069 U                                           | 0.069 U                                           |  |

**Notes:**

**Bold** text indicates detected analyte

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

**Acronyms/Abbreviations:**

|                             |                                       |
|-----------------------------|---------------------------------------|
| CUL = cleanup level         | MTCA = Model Toxics Control Act       |
| EDB = ethylene dibromide    | N = primary sample                    |
| FD = field duplicate        | N/A = not applicable                  |
| ft = feet                   | PAH = polycyclic aromatic hydrocarbon |
| ID = Identification         | SIM = selected ion monitoring         |
| µg/L = micrograms per liter | TEQ = toxicity equivalency quotient   |

**Table 6**  
**2020 Waste Characterization Analytical Results**  
**Mason Transit Authority**  
**Shelton, Washington**

| Analyte                                                         | Location, Sample Date, Sample Type, Lab Sample ID |                                           |                                           |                                           |                                           |                                            |                                           |                                           |                                           |                                           |                                           |
|-----------------------------------------------------------------|---------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
|                                                                 | MTA-SP<br>3/16/2020<br>N<br>580-93490-5           | MTA-SP-A<br>3/16/2020<br>N<br>580-93490-6 | MTA-SP-B<br>3/16/2020<br>N<br>580-93490-7 | MTA-SP-C<br>3/16/2020<br>N<br>580-93490-8 | MTA-SP-D<br>3/16/2020<br>N<br>580-93490-9 | MTA-SP-E<br>3/16/2020<br>N<br>580-93490-10 | MTA-SP-F<br>5/11/2020<br>N<br>580-94618-1 | MTA-SP-G<br>5/11/2020<br>N<br>580-94618-1 | MTA-SP-H<br>5/11/2020<br>N<br>580-94618-1 | MTA-SP-I<br>5/11/2020<br>N<br>580-94618-1 | MTA-SP-J<br>5/11/2020<br>N<br>580-94618-1 |
|                                                                 | Sample Type:                                      | Stockpile                                 | Stockpile                                 | Stockpile                                 | Stockpile                                 | Stockpile                                  | Stockpile                                 | Stockpile                                 | Stockpile                                 | Stockpile                                 | Stockpile                                 |
| <b>Semivolatile Organic Compounds (mg/kg; SW-846 8270D SIM)</b> |                                                   |                                           |                                           |                                           |                                           |                                            |                                           |                                           |                                           |                                           |                                           |
| Benzo(a)anthracene                                              | <b>0.015 J</b>                                    | <b>0.04 J</b>                             | <b>0.1 J</b>                              | <b>0.014 J</b>                            | 0.0057 UJ                                 | 0.0054 UJ                                  | <b>0.088</b>                              | <b>0.026</b>                              | <b>0.066</b>                              | 0.028 U                                   | 0.027 UJ                                  |
| Benzo(a)pyrene                                                  | <b>0.014 J</b>                                    | <b>0.048 J</b>                            | <b>0.12 J</b>                             | <b>0.016 J</b>                            | 0.0057 UJ                                 | 0.0054 UJ                                  | <b>0.077</b>                              | 0.026 U                                   | <b>0.031</b>                              | 0.028 U                                   | 0.027 UJ                                  |
| Benzo(b)fluoranthene                                            | <b>0.047 J</b>                                    | <b>0.11 J</b>                             | <b>0.31 J</b>                             | <b>0.046 J</b>                            | 0.0057 UJ                                 | <b>0.012 J</b>                             | <b>0.16</b>                               | <b>0.064</b>                              | <b>0.092</b>                              | 0.028 U                                   | <b>0.032 J</b>                            |
| Benzo(k)fluoranthene                                            | <b>0.0092 J</b>                                   | 0.0052 UJ                                 | 0.0051 UJ                                 | 0.0054 UJ                                 | 0.0057 UJ                                 | 0.0054 UJ                                  | <b>0.044</b>                              | 0.026 U                                   | 0.027 U                                   | 0.028 U                                   | 0.027 UJ                                  |
| Chrysene                                                        | <b>0.037 J</b>                                    | <b>0.07 J</b>                             | <b>0.15 J</b>                             | <b>0.031 J</b>                            | <b>0.0077 J</b>                           | <b>0.01 J</b>                              | <b>0.13</b>                               | <b>0.06</b>                               | <b>0.094</b>                              | 0.028 U                                   | <b>0.028 J</b>                            |
| Dibenzo(a,h)anthracene                                          | 0.0053 UJ                                         | <b>0.0064 J</b>                           | <b>0.028 J</b>                            | 0.0054 UJ                                 | 0.0057 UJ                                 | 0.0054 UJ                                  | 0.026 U                                   | 0.026 U                                   | 0.027 U                                   | 0.028 U                                   | 0.027 UJ                                  |
| Indeno(1,2,3-cd)pyrene                                          | <b>0.020 J</b>                                    | <b>0.043 J</b>                            | <b>0.11 J</b>                             | <b>0.015 J</b>                            | 0.0057 UJ                                 | 0.0054 UJ                                  | <b>0.072</b>                              | <b>0.028</b>                              | 0.027 U                                   | 0.028 U                                   | 0.027 UJ                                  |
| cPAH TEQ                                                        | <b>0.023 J</b>                                    | <b>0.069 J</b>                            | <b>0.176 J</b>                            | <b>0.024 J</b>                            | <b>0.0001 J</b>                           | <b>0.0013 J</b>                            | <b>0.1147</b>                             | <b>0.0124</b>                             | <b>0.04774</b>                            | 0.028 U                                   | <b>0.00348 J</b>                          |
| <b>Total Metals (mg/kg; SW-846 6010C/7471A)</b>                 |                                                   |                                           |                                           |                                           |                                           |                                            |                                           |                                           |                                           |                                           |                                           |
| Arsenic                                                         | --                                                | <b>3.0</b>                                | <b>2.8</b>                                | <b>2.7</b>                                | <b>3.8</b>                                | <b>3.6</b>                                 | <b>3.2</b>                                | <b>5.0</b>                                | <b>3.9</b>                                | <b>3.7</b>                                | <b>3.2</b>                                |
| Barium                                                          | --                                                | <b>65</b>                                 | <b>49</b>                                 | <b>64</b>                                 | <b>110</b>                                | <b>90</b>                                  | <b>55</b>                                 | <b>69</b>                                 | <b>62</b>                                 | <b>75</b>                                 | <b>56</b>                                 |
| Cadmium                                                         | --                                                | 0.85 U                                    | 0.68 U                                    | 0.82 U                                    | <b>1.1</b>                                | 0.99 U                                     | 0.75 U                                    | 0.65 U                                    | 0.67 U                                    | 0.69 U                                    | 0.68 U                                    |
| Chromium, Total                                                 | --                                                | <b>42</b>                                 | <b>39</b>                                 | <b>46</b>                                 | <b>77</b>                                 | <b>54</b>                                  | <b>52</b>                                 | <b>53</b>                                 | <b>38</b>                                 | <b>44</b>                                 | <b>41</b>                                 |
| Lead                                                            | --                                                | <b>160</b>                                | <b>120</b>                                | <b>230</b>                                | <b>250</b>                                | <b>260</b>                                 | <b>150</b>                                | <b>300</b>                                | <b>130</b>                                | <b>210</b>                                | <b>110</b>                                |
| Mercury                                                         | --                                                | <b>0.051</b>                              | <b>0.040</b>                              | <b>0.047</b>                              | <b>0.063</b>                              | <b>0.064</b>                               | <b>0.074</b>                              | <b>0.089</b>                              | <b>0.056</b>                              | <b>0.070</b>                              | <b>0.040</b>                              |
| Selenium                                                        | --                                                | 4.2 U                                     | 3.4 U                                     | 4.1 U                                     | 4.1 U                                     | 4.9 U                                      | 3.8 U                                     | 3.3 U                                     | 3.4 U                                     | 3.4 U                                     | 3.4 U                                     |
| Silver                                                          | --                                                | 2.1 U                                     | 1.7 U                                     | 2.0 U                                     | 2.0 U                                     | 2.5 U                                      | 1.9 U                                     | 1.6 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     |
| <b>TCLP Metals (mg/L; SW-846 6020C)</b>                         |                                                   |                                           |                                           |                                           |                                           |                                            |                                           |                                           |                                           |                                           |                                           |
| Lead                                                            | --                                                | --                                        | --                                        | --                                        | --                                        | 0.13                                       | --                                        | --                                        | --                                        | --                                        | --                                        |

**Notes:**

**Bold** text indicates detected analyte

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**Acronyms/Abbreviations:**

ID = Identification

mg/kg = milligrams per kilogram

N = primary sample

N/A = not applicable

SIM = selected ion monitoring

TEQ = toxicity equivalency quotient

**Table 7**  
**2020 Additional Soil Characterization Results**  
**Mason Transit Authority**  
**Shelton, Washington**

|                                                          | CUL  | Sample Location, Sample Depth Interval,<br>Sample Date, Lab Sample ID |             |             |             |
|----------------------------------------------------------|------|-----------------------------------------------------------------------|-------------|-------------|-------------|
|                                                          |      | MTA-B09                                                               | MTA-B10     | MTA-B11     | MTA-B12     |
|                                                          |      | 1-3 ft                                                                | 1-3 ft      | 1-3 ft      | 1-3 ft      |
|                                                          |      | 3/16/2020                                                             | 3/16/2020   | 3/16/2020   | 3/16/2020   |
|                                                          |      | 580-93490-1                                                           | 580-93490-2 | 580-93490-3 | 580-93490-4 |
| Sample Type:                                             |      | Performance                                                           | Performance | Performance | Performance |
| Semivolatile Organic Compounds (mg/kg; SW-846 8270D SIM) |      |                                                                       |             |             |             |
| Benzo(a)anthracene                                       | N/A  | 0.016                                                                 | 0.0061 U    | 0.0079      | 0.052       |
| Benzo(a)pyrene                                           | 0.19 | 0.0090                                                                | 0.0061 U    | 0.0059 U    | 0.044       |
| Benzo(b)fluoranthene                                     | N/A  | 0.043                                                                 | 0.0061 U    | 0.017       | 0.120       |
| Benzo(k)fluoranthene                                     | N/A  | 0.0094                                                                | 0.0061 U    | 0.0059 U    | 0.026       |
| Chrysene                                                 | N/A  | 0.028                                                                 | 0.0061 U    | 0.013       | 0.063       |
| Dibenzo(a,h)anthracene                                   | N/A  | 0.0062 U                                                              | 0.0061 U    | 0.0059 U    | 0.011       |
| Indeno(1,2,3-cd)pyrene                                   | N/A  | 0.027                                                                 | 0.0061 U    | 0.011       | 0.059       |
| cPAH TEQ (ND=1/2 RL)                                     | 0.19 | 0.019                                                                 | 0.0046 U    | 0.0073      | 0.071       |

**Notes:**

**Bold** text indicates detected analyte

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

**Acronyms/Abbreviations:**

CUL = cleanup level

cPAH = carcinogenic polycyclic aromatic hydrocarbon

ft = feet

ID = Identification

mg/kg = milligrams per kilogram

N/A = not applicable

RL = reporting limit

SIM = selected ion monitoring

TEQ = toxicity equivalency quotient

Table 8  
2020 Soil Confirmation Analytical Results  
Mason Transit Authority  
Shelton, Washington

| Analyte                                                  | CUL     | Sample Location, Sample Depth Interval, Sample Date, Sample Type, Lab Sample ID |              |              |              |              |              |              |              |              |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                          |         | MTA-B13                                                                         | MTA-B14      | MTA-B15      | MTA-B16      | MTA-B17      | MTA-B18      | MTA-B19      | MTA-B20      | MTA-B21      |
|                                                          |         | 1 ft                                                                            | 1 ft         | 1 ft         | 1 ft         | 3 ft         | 3 ft         | 3 ft         | 3 ft         | 3 ft         |
|                                                          |         | 5/11/2020                                                                       | 5/11/2020    | 5/11/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    |
|                                                          |         | N                                                                               | N            | N            | N            | N            | N            | N            | N            | N            |
|                                                          |         | 580-94618-1                                                                     | 580-94618-1  | 580-94618-1  | 580-94853-1  | 580-94853-2  | 580-94853-3  | 580-94853-4  | 580-94853-5  | 580-94853-6  |
| Sample Type:                                             |         | Confirmation                                                                    | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation |
| Petroleum Hydrocarbons (mg/kg; NWTPH-Dx)                 |         |                                                                                 |              |              |              |              |              |              |              |              |
| Diesel Range Organics                                    | N/A     | 53 U                                                                            | 56 U         | 58 U         | 52 U         | 51 U         | 49 U         | 52 U         | 51 U         | 52 U         |
| Oil Range Organics                                       | N/A     | 170                                                                             | 220          | 120          | 52 U         | 140          | 54           | 170          | 110          | 97           |
| Total Petroleum Hydrocarbons                             | 1,500   | 170                                                                             | 220          | 120          | 52 U         | 140          | 54           | 170          | 110          | 97           |
| Total Metals (mg/kg; SW-846 6020C, 7470A)                |         |                                                                                 |              |              |              |              |              |              |              |              |
| Arsenic                                                  | 20      | 7.3                                                                             | 3.4          | 3.1          | 4.7 U        | 4.7 U        | 4.3 U        | 5.1          | 4.7 U        | 4.6 U        |
| Barium                                                   | 10,000  | 86 J                                                                            | 93           | 95           | 47           | 73           | 54           | 80           | 78           | 77           |
| Cadmium                                                  | 80      | 0.70 U                                                                          | 0.80 U       | 0.81 U       | 1.6 U        | 1.6 U        | 1.4 U        | 1.6 U        | 1.6 U        | 1.5 U        |
| Chromium, Total (a)                                      | 120,000 | 69                                                                              | 94           | 95           | 52           | 93           | 70           | 82           | 94           | 83           |
| Lead                                                     | 250     | 140                                                                             | 170          | 62           | 14 J         | 63           | 26           | 56           | 43           | 35           |
| Mercury                                                  | 2       | 0.10 J                                                                          | 0.039        | 0.039        | 0.025 U      | 0.027 U      | 0.026        | 0.033        | 0.029        | 0.029 U      |
| Selenium                                                 | 400     | 3.5 U                                                                           | 4.0 U        | 4.1 U        | 7.8 U        | 7.8 U        | 7.1 U        | 7.8 U        | 7.8 U        | 7.6 U        |
| Silver                                                   | 400     | 1.8 U                                                                           | 2.0 U        | 2.0 U        | 3.9 U        | 3.9 U        | 3.6 U        | 3.9 U        | 3.9 U        | 3.8 U        |
| Polychlorinated Biphenyls (mg/kg; SW-846 8082A)          |         |                                                                                 |              |              |              |              |              |              |              |              |
| Aroclor 1016                                             | 5.6     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1221                                             | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1232                                             | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1242                                             | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1248                                             | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1254                                             | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1260                                             | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Total PCBs                                               | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Semivolatile Organic Compounds (mg/kg; SW-846 8270D SIM) |         |                                                                                 |              |              |              |              |              |              |              |              |
| Benzo(a)anthracene                                       | N/A     | 0.095                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.034        | 0.049        | 0.026        | 0.011        |
| Benzo(a)pyrene                                           | 0.19    | 0.082                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.027        | 0.037        | 0.017        | 0.0076       |
| Benzo(b)fluoranthene                                     | N/A     | 0.11                                                                            | 0.028        | 0.027 U      | 0.0096       | 0.042        | 0.043        | 0.076        | 0.038        | 0.018        |
| Benzo(k)fluoranthene                                     | N/A     | 0.033                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.016        | 0.022        | 0.0077       | 0.0054       |
| Chrysene                                                 | N/A     | 0.12                                                                            | 0.03         | 0.027 U      | 0.0067       | 0.040        | 0.043        | 0.072        | 0.033        | 0.019        |
| Dibenzo(a,h)anthracene                                   | N/A     | 0.027 U                                                                         | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.0059       | 0.0083       | 0.0051 U     | 0.0053 U     |
| Indeno(1,2,3-cd)pyrene                                   | N/A     | 0.059                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.025        | 0.036        | 0.016        | 0.0088       |
| cPAH TEQ (ND=1/2 RL)                                     | 0.19    | 0.11                                                                            | 0.023        | 0.020 U      | 0.0045       | 0.022        | 0.040        | 0.057        | 0.026        | 0.012        |

Notes:

Bold text indicates detected analyte

Green shading indicates detected analyte exceeds applicable cleanup level

1. For summing purposes if the sample results were all non-detect, the greatest reporting limit is used for the total value.

(a) Hexavalent chromium was not detected above the laboratory reporting limit in any sample, therefore total chromium values are representative of trivalent chromium.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Acronyms/Abbreviations:

-- = not analyzed

µg/kg = micrograms per kilogram

CUL = cleanup level

ft = feet

ID = Identification

MTCA = Model Toxics Control Act

N = primary sample

N/A = not applicable

PAH = polycyclic aromatic hydrocarbon

RL = Reporting Limit

SIM = selected ion monitoring

TEQ = toxicity equivalency quotient



Table 9  
Summary of Soil Analytical Results - Soil Remaining in Place  
Mason Transit Authority  
Shelton, Washington

| Analyte                                                  | CUL     | Sample Location, Sample Depth Interval, Sample Date, Sample Type, Lab Sample ID |               |               |               |               |               |               |               |               |               |               |           |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|
|                                                          |         | MTA-B01                                                                         | MTA-B01       | MTA-B02       | MTA-B03       | MTA-B03       | MTA-B04       | MTA-B05       | MTA-B06       | MTA-B07       | MTA-B08       | MTA-B08       |           |
|                                                          |         | 0-3 ft                                                                          | 7.3-8.3 ft    | 5.5-6.5 ft    | 0-3 ft        | 7-10.5 ft     | 10.5-11.5 ft  | 8-9 ft        | 7.5-8.5 ft    | 6.5-7.5 ft    | 0-2.5 ft      | 7.5-8.5 ft    |           |
|                                                          |         | 6/25/2019                                                                       | 6/25/2019     | 6/26/2019     | 6/25/2019     | 6/25/2019     | 6/25/2019     | 6/25/2019     | 6/25/2019     | 6/25/2019     | 6/26/2019     | 6/25/2019     | 6/25/2019 |
|                                                          |         | N                                                                               | N             | N             | N             | N             | N             | N             | N             | N             | N             | N             | N         |
|                                                          |         | 580-87175-12                                                                    | 580-87175-13  | 580-87205-5   | 580-87175-7   | 580-87175-3   | 580-87175-11  | 580-87175-10  | 580-87175-8   | 580-87205-8   | 580-87175-4   | 580-87175-5   |           |
| Sample Type:                                             |         | Investigation                                                                   | Investigation | Investigation | Investigation | Investigation | Investigation | Investigation | Investigation | Investigation | Investigation | Investigation |           |
| Petroleum Hydrocarbons (mg/kg; NWTPH-Gx, -Dx)            |         |                                                                                 |               |               |               |               |               |               |               |               |               |               |           |
| Gasoline Range Organics                                  | N/A     | 4.5 U                                                                           | 4.4 U         | 5.5 U         | 4.8 U         | 4.7 U         | 4.2 UJ        | 4.2 U         | 4.4 U         | 5.1 U         | 5.0 U         | 4.3 U         |           |
| Diesel Range Organics                                    | N/A     | 10                                                                              | 10 U          | 10 U          | 13            | 10 U          | 9.9 U         | 9.9 U         | 9.8 U         | 11 U          | 87            | 9.9 U         |           |
| Oil Range Organics                                       | N/A     | 69                                                                              | 25 U          | 25 U          | 71            | 25 U          | 25 U          | 25 U          | 25 U          | 27 U          | 480           | 25 U          |           |
| Total Petroleum Hydrocarbons                             | 1,500   | 79                                                                              | 25 U          | 25 U          | 84            | 25 U          | 25 U          | 25 U          | 25 U          | 27 U          | 567           | 25 U          |           |
| Total Metals (mg/kg; SW-846 6020C, 7470A)                |         |                                                                                 |               |               |               |               |               |               |               |               |               |               |           |
| Arsenic                                                  | 20      | 2.2 U                                                                           | 2.1 U         | 2.3 U         | 2.8           | 2.3 U         | 2.2 U         | 2.7           | 2.5           | 2.5 U         | 2.2 U         | 2.2 U         |           |
| Barium                                                   | 10,000  | 45                                                                              | 23            | 33            | 64            | 22            | 22            | 21            | 24            | 33            | 64            | 21            |           |
| Cadmium                                                  | 80      | 0.83                                                                            | 0.71 U        | 0.77 U        | 0.86          | 0.76          | 0.73          | 0.68 U        | 0.81 U        | 0.82 U        | 0.79          | 0.74 U        |           |
| Chromium, Total (a)                                      | 120,000 | 56                                                                              | 36            | 63            | 53            | 33            | 39            | 35            | 42            | 54 J          | 60            | 41            |           |
| Chromium, Hexavalent                                     | 240     | --                                                                              | --            | --            | --            | --            | --            | --            | --            | --            | 5.1 UJ        | --            |           |
| Lead                                                     | 250     | 41                                                                              | 1.1           | 9.3           | 81            | 2.2           | 1.1 U         | 1.2           | 1.2 U         | 1.2 U         | 100           | 1.1 U         |           |
| Mercury                                                  | 2       | 0.028                                                                           | 0.025 U       | 0.026 U       | 0.034         | 0.025 U       | 0.019 U       | 0.019 U       | 0.024 U       | 0.025 U       | 0.040         | 0.020 U       |           |
| Selenium                                                 | 400     | 3.7 U                                                                           | 3.5 U         | 3.8 U         | 3.6 U         | 3.8 U         | 3.6 U         | 3.4 U         | 4.1 U         | 4.1 U         | 3.6 U         | 3.7 U         |           |
| Silver                                                   | 400     | 1.9 U                                                                           | 1.8 U         | 1.9 U         | 1.8 U         | 1.9 U         | 1.8 U         | 1.7 U         | 2.0 U         | 2.1 U         | 1.8 U         | 1.9 U         |           |
| Polychlorinated Biphenyls (mg/kg; SW-846 8082A)          |         |                                                                                 |               |               |               |               |               |               |               |               |               |               |           |
| Aroclor 1016                                             | 5.6     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1221                                             | N/A     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1232                                             | N/A     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1242                                             | N/A     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1248                                             | N/A     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1254                                             | 0.5     | 0.01                                                                            | 0.01 U        | 0.011 U       | 0.021         | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Aroclor 1260                                             | 0.5     | 0.0096 U                                                                        | 0.01 U        | 0.011 U       | 0.01 U        | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Total PCBs                                               | 0.5     | 0.01                                                                            | 0.01 U        | 0.011 U       | 0.021         | 0.0097 U      | 0.01 U        | 0.0096 U      | 0.0097 U      | 0.01 U        | 0.01 U        | 0.0098 U      |           |
| Select Volatile Organic Compounds (mg/kg; SW-846 8260C)  |         |                                                                                 |               |               |               |               |               |               |               |               |               |               |           |
| 1,2-Dibromoethane (EDB)                                  | 0.5     | 0.00076 UJ                                                                      | 0.0012 U      | 0.0011 U      | 0.00085 UJ    | 0.00096 UJ    | 0.00089 U     | 0.00085 U     | 0.00086 U     | 0.00089 UJ    | 0.00093 U     | 0.00086 U     |           |
| 1,2-Dichloroethane                                       | 11      | 0.00076 UJ                                                                      | 0.0012 U      | 0.0010 U      | 0.00085 UJ    | 0.00096 UJ    | 0.00089 U     | 0.00085 U     | 0.00086 U     | 0.00092 UJ    | 0.00093 U     | 0.00086 U     |           |
| Benzene                                                  | 18      | 0.0015 UJ                                                                       | 0.0024 U      | 0.0020 U      | 0.0017 UJ     | 0.0019 UJ     | 0.0018 U      | 0.0017 U      | 0.0017 U      | 0.0018 UJ     | 0.0019 U      | 0.0017 U      |           |
| Ethylbenzene                                             | 8,000   | 0.0015 UJ                                                                       | 0.0024 U      | 0.0020 U      | 0.0017 UJ     | 0.0019 UJ     | 0.0018 U      | 0.0017 U      | 0.0017 U      | 0.0018 UJ     | 0.0019 U      | 0.0017 U      |           |
| m-&p-Xylenes                                             | 16,000  | 0.0076 UJ                                                                       | 0.012 U       | 0.01 U        | 0.0085 UJ     | 0.0096 UJ     | 0.0089 U      | 0.0085 U      | 0.0086 U      | 0.0092 UJ     | 0.0093 U      | 0.0086 U      |           |
| Methyl-tert-butyl ether                                  | 560     | 0.0015 UJ                                                                       | 0.0024 U      | 0.0022 U      | 0.0017 UJ     | 0.0019 UJ     | 0.0018 U      | 0.0017 U      | 0.0017 U      | 0.0018 UJ     | 0.0019 U      | 0.0017 U      |           |
| o-Xylene                                                 | 16,000  | 0.0038 UJ                                                                       | 0.0060 U      | 0.0051 U      | 0.0043 UJ     | 0.0048 UJ     | 0.0045 U      | 0.0042 U      | 0.0043 U      | 0.0046 UJ     | 0.0046 U      | 0.0043 U      |           |
| Toluene                                                  | 6,400   | 0.0076 UJ                                                                       | 0.012 U       | 0.01 U        | 0.0085 UJ     | 0.0096 UJ     | 0.0089 U      | 0.0085 U      | 0.0086 U      | 0.0092 UJ     | 0.0093 U      | 0.0086 U      |           |
| Total Xylenes                                            | 16,000  | 0.0076 UJ                                                                       | 0.012 U       | 0.01 U        | 0.0085 UJ     | 0.0096 UJ     | 0.0089 U      | 0.0085 U      | 0.0086 U      | 0.0092 UJ     | 0.0093 U      | 0.0086 U      |           |
| Semivolatile Organic Compounds (mg/kg; SW-846 8270D SIM) |         |                                                                                 |               |               |               |               |               |               |               |               |               |               |           |
| Benzo(a)anthracene                                       | N/A     | 0.0099 U                                                                        | 0.01 U        | 0.01 U        | 0.017         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.021         | 0.0099 U      |           |
| Benzo(a)pyrene                                           | 0.19    | 0.0099 U                                                                        | 0.01 U        | 0.01 U        | 0.021         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.025         | 0.0099 U      |           |
| Benzo(b)fluoranthene                                     | N/A     | 0.023                                                                           | 0.01 U        | 0.01 U        | 0.034         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.029         | 0.0099 U      |           |
| Benzo(k)fluoranthene                                     | N/A     | 0.0099 U                                                                        | 0.01 U        | 0.01 U        | 0.013         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.01 U        | 0.0099 U      |           |
| Chrysene                                                 | N/A     | 0.017                                                                           | 0.01 U        | 0.01 U        | 0.027         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.032         | 0.0099 U      |           |
| Dibenzo(a,h)anthracene                                   | N/A     | 0.0099 U                                                                        | 0.01 U        | 0.01 U        | 0.01 U        | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.01 U        | 0.0099 U      |           |
| Indeno(1,2,3-cd)pyrene                                   | N/A     | 0.0099 U                                                                        | 0.01 U        | 0.01 U        | 0.015         | 0.01 U        | 0.01 U        | 0.0098 U      | 0.01 U        | 0.01 U        | 0.013         | 0.0099 U      |           |
| cPAH TEQ (ND=1/2 RL)                                     | 0.19    | 0.0094                                                                          | 0.0076 U      | 0.0076 U      | 0.030         | 0.0076 U      | 0.0076 U      | 0.0074 U      | 0.0076 U      | 0.0076 U      | 0.033         | 0.0075 U      |           |

Table 9  
Summary of Soil Analytical Results - Soil Remaining in Place  
Mason Transit Authority  
Shelton, Washington

| Analyte                                                | CUL     | Sample Location, Sample Depth Interval, Sample Date, Sample Type, Lab Sample ID |              |              |              |              |              |              |              |              |
|--------------------------------------------------------|---------|---------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                        |         | MTA-B13                                                                         | MTA-B14      | MTA-B15      | MTA-B16      | MTA-B17      | MTA-B18      | MTA-B19      | MTA-B20      | MTA-B21      |
|                                                        |         | 1 ft                                                                            | 1 ft         | 1 ft         | 1 ft         | 3 ft         | 3 ft         | 3 ft         | 3 ft         | 3 ft         |
|                                                        |         | 5/11/2020                                                                       | 5/11/2020    | 5/11/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    | 5/21/2020    |
|                                                        |         | N                                                                               | N            | N            | N            | N            | N            | N            | N            | N            |
|                                                        |         | 580-94618-1                                                                     | 580-94618-1  | 580-94618-1  | 580-94853-1  | 580-94853-2  | 580-94853-3  | 580-94853-4  | 580-94853-5  | 580-94853-6  |
| Sample Type:                                           |         | Confirmation                                                                    | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation |
| Petroleum Hydrocarbons (mg/kg; NWTPH-Gx, -Dx)          |         |                                                                                 |              |              |              |              |              |              |              |              |
| Gasoline Range Organics                                | N/A     | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Diesel Range Organics                                  | N/A     | 53 U                                                                            | 56 U         | 58 U         | 52 U         | 51 U         | 49 U         | 52 U         | 51 U         | 52 U         |
| Oil Range Organics                                     | N/A     | 170                                                                             | 220          | 120          | 52 U         | 140          | 54           | 170          | 110          | 97           |
| Total Petroleum Hydrocarbons                           | 1,500   | 170                                                                             | 220          | 120          | 52 U         | 140          | 54           | 170          | 110          | 97           |
| Total Metals (mg/kg; SW-846 6020C, 7470A)              |         |                                                                                 |              |              |              |              |              |              |              |              |
| Arsenic                                                | 20      | 7.3                                                                             | 3.4          | 3.1          | 4.7 U        | 4.7 U        | 4.3 U        | 5.1          | 4.7 U        | 4.6 U        |
| Barium                                                 | 10,000  | 86 J                                                                            | 93           | 95           | 47           | 73           | 54           | 80           | 78           | 77           |
| Cadmium                                                | 80      | 0.70 U                                                                          | 0.80 U       | 0.81 U       | 1.6 U        | 1.6 U        | 1.4 U        | 1.6 U        | 1.6 U        | 1.5 U        |
| Chromium, Total (a)                                    | 120,000 | 69                                                                              | 94           | 95           | 52           | 93           | 70           | 82           | 94           | 83           |
| Chromium, Hexavalent                                   | 240     | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Lead                                                   | 250     | 140                                                                             | 170          | 62           | 14 J         | 63           | 26           | 56           | 43           | 35           |
| Mercury                                                | 2       | 0.10 J                                                                          | 0.039        | 0.039        | 0.025 U      | 0.027 U      | 0.026        | 0.033        | 0.029        | 0.029 U      |
| Selenium                                               | 400     | 3.5 U                                                                           | 4.0 U        | 4.1 U        | 7.8 U        | 7.8 U        | 7.1 U        | 7.8 U        | 7.8 U        | 7.6 U        |
| Silver                                                 | 400     | 1.8 U                                                                           | 2.0 U        | 2.0 U        | 3.9 U        | 3.9 U        | 3.6 U        | 3.9 U        | 3.9 U        | 3.8 U        |
| Polychlorinated Biphenyls (mg/kg; SW-846 8082A)        |         |                                                                                 |              |              |              |              |              |              |              |              |
| Aroclor 1016                                           | 5.6     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1221                                           | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1232                                           | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1242                                           | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1248                                           | N/A     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1254                                           | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Aroclor 1260                                           | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Total PCBs                                             | 0.5     | 0.021 U                                                                         | 0.022 U      | 0.023 U      | 0.020 U      | 0.021 U      | 0.022 U      | 0.022 U      | 0.022 U      | 0.021 U      |
| Select Volatile Organic Compounds (mg/kg; SW-846 8260) |         |                                                                                 |              |              |              |              |              |              |              |              |
| 1,2-Dibromoethane (EDB)                                | 0.5     | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| 1,2-Dichloroethane                                     | 11      | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Benzene                                                | 18      | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Ethylbenzene                                           | 8,000   | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| m-&p-Xylenes                                           | 16,000  | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Methyl-tert-butyl ether                                | 560     | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| o-Xylene                                               | 16,000  | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Toluene                                                | 6,400   | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Total Xylenes                                          | 16,000  | --                                                                              | --           | --           | --           | --           | --           | --           | --           | --           |
| Semivolatile Organic Compounds (mg/kg; SW-846 8270)    |         |                                                                                 |              |              |              |              |              |              |              |              |
| Benzo(a)anthracene                                     | N/A     | 0.095                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.034        | 0.049        | 0.026        | 0.011        |
| Benzo(a)pyrene                                         | 0.19    | 0.082                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.027        | 0.037        | 0.017        | 0.0076       |
| Benzo(b)fluoranthene                                   | N/A     | 0.11                                                                            | 0.028        | 0.027 U      | 0.0096       | 0.042        | 0.043        | 0.076        | 0.038        | 0.018        |
| Benzo(k)fluoranthene                                   | N/A     | 0.033                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.016        | 0.022        | 0.0077       | 0.0054       |
| Chrysene                                               | N/A     | 0.12                                                                            | 0.03         | 0.027 U      | 0.0067       | 0.040        | 0.043        | 0.072        | 0.033        | 0.019        |
| Dibenzo(a,h)anthracene                                 | N/A     | 0.027 U                                                                         | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.0059       | 0.0083       | 0.0051 U     | 0.0053 U     |
| Indeno(1,2,3-cd)pyrene                                 | N/A     | 0.059                                                                           | 0.028 U      | 0.027 U      | 0.0049 U     | 0.025 U      | 0.025        | 0.036        | 0.016        | 0.0088       |
| cPAH TEQ (ND=1/2 RL)                                   | 0.19    | 0.11                                                                            | 0.023        | 0.020 U      | 0.0045       | 0.022        | 0.040        | 0.057        | 0.026        | 0.012        |

Table 9  
Summary of Soil Analytical Results - Soil Remaining in Place  
Mason Transit Authority  
Shelton, Washington

Notes:

- Bold** text indicates detected analyte
- Green shading indicates detected analyte exceeds applicable cleanup level
- 1. Investigations samples were collected to investigate site conditions. Performance samples were also collected to investigate site conditions, but the soil has since been excavated and is no longer in place.
- 1. For summing purposes if the sample results were all non-detect, the greatest reporting limit is used for the total value.
- (a) Hexavalent chromium was not detected above the laboratory reporting limit in any sample, therefore total chromium values are representative of trivalent chromium.
- J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
- UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Acronyms/Abbreviations:

- |                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| CUL = cleanup level             | N/A = not applicable                              |
| EDB = ethylene dibromide        | PAH = polycyclic aromatic hydrocarbon             |
| FD = field duplicate            | SIM = selected ion monitoring                     |
| ft = feet                       | TCLP = toxicity characteristic leaching procedure |
| ID = Identification             | TEQ = toxicity equivalency quotient               |
| µg/kg = micrograms per kilogram |                                                   |
| MTCA = Model Toxics Control Act |                                                   |
| N = primary sample              |                                                   |
| -- = not analyzed               |                                                   |

## **2012 Soil Disposal Waste Manifests**



Requested Facility: \_\_\_\_\_

☐ Check if there are multiple generator locations. Attach locations.☒ Unsure Profile Number: 107419WA☐ Renewal? Original Profile Number: \_\_\_\_\_**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

1. Generator Name: Mason Transit Authority  
2. Site Address: 522 Railroad Avenue  
(City, State, ZIP) Shelton WA 98584  
3. County: Mason  
4. Contact Name: Brad Patterson  
5. Email: \_\_\_\_\_  
6. Phone: (360) 426-9434 7. Fax: \_\_\_\_\_  
8. Generator EPA ID: \_\_\_\_\_ ☒ N/A  
9. State ID: \_\_\_\_\_ ☒ N/A

**C. MATERIAL INFORMATION**

1. Common Name: non-regulated soil  
Describe Process Generating Material: ☐ See Attached  
soil clean up  
2. Material Composition and Contaminants: ☐ See Attached  

|                              |              |
|------------------------------|--------------|
| 1. <u>non regulated soil</u> | <u>100 %</u> |
| 2.                           |              |
| 3.                           |              |
| 4.                           |              |
| <u>≥100%</u>                 |              |

  
3. State Waste Codes: \_\_\_\_\_ ☒ N/A  
4. Color: varies  
5. Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Other: \_\_\_\_\_  
6. Free Liquid Range Percentage: \_\_\_\_\_ to \_\_\_\_\_ ☒ N/A (Solid)  
7. pH: \_\_\_\_\_ to \_\_\_\_\_ ☒ N/A (Solid)  
8. Strong Odor: ☐ Yes ☒ No Describe: \_\_\_\_\_  
9. Flash Point: ☐ <140°F ☐ 140°–199°F ☐ ≥200° ☒ N/A (Solid)

**E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION**

1. Analytical attached ☒ Yes  
Please identify applicable samples and/or lab reports:  
see attached Spectra labs pdf  
2. Other information attached (such as MSDS)? ☐ Yes

**G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)**

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Lisa Palazzi Date: 10/25/2012  
Title: Soil Scientist  
Company: J.W. Morrisette & Associates

**B. BILLING INFORMATION**☐ SAME AS GENERATOR

1. Billing Name: Simpson Timber Company  
2. Billing Address: 917 East 11th Street  
(City, State, ZIP) Tacoma WA 98421  
3. Contact Name: Betsy Stauffer  
4. Email: betsy.stauffer@simpson.com  
5. Phone: (260) 252-9456 6. Fax: \_\_\_\_\_  
7. WM Hauled? ☒ Yes ☐ No  
8. P.O. Number: \_\_\_\_\_

**D. REGULATORY INFORMATION**

1. EPA Hazardous Waste? ☐ Yes\* ☒ No  
Code: \_\_\_\_\_  
2. State Hazardous Waste? ☐ Yes ☒ No  
Code: \_\_\_\_\_  
3. Excluded waste under 40 CFR 261.4 (a) or (b)? ☐ Yes\* ☒ No  
4. Contains Underlying Hazardous Constituents? ☐ Yes\* ☒ No  
5. Contains benzene and subject to Benzene NESHA? ☐ Yes\* ☒ No  
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes\* ☒ No  
7. CERCLA or State-mandated clean-up? ☐ Yes\* ☒ No  
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes\* ☒ No  
\*If Yes, see Addendum (page 2) for additional questions and space.  
9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No  
a. Regulated by 40 CFR 761? ☐ Yes ☐ No  
b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No  
c. Were PCB imported into the US? ☐ Yes ☐ No  
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No  
11. Contains Asbestos? ☐ Yes: Friable ☐ Yes: Non-Friable ☒ No

**F. SHIPPING AND DOT INFORMATION**

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business  
2. Estimated Quantity/Unit of Measure: 250  
☒ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other: \_\_\_\_\_  
3. Container Type and Size: dump truck and trailer  
4. USDOT Proper Shipping Name: \_\_\_\_\_ ☐ N/A  
Material Not Regulated by DOT

Certification Signature

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last Revised June 6, 2012  
©2012 Waste Management, Inc.



# Olympic View Transfer Station

9300 SW Barney White Road, Port Orchard Washington

## Profile # 107419WA

### PERMIT TO DISPOSE OF NON-HAZARDOUS MATERIALS

This permit authorizes disposal of Customer's waste materials in accordance with the Industrial Waste & Disposal Services Agreement dated \_\_\_\_\_.

EXPIRES: 11/7/2013

**GENERATOR: MASON TRANSIT AUTHORITY - CS2**

|                                                                                                                             |  |                                      |
|-----------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|
| <b>DESCRIPTION: TREATED LEAD SOILS</b>                                                                                      |  | <b>VOLUME: 250 tons</b>              |
| <input checked="" type="checkbox"/> CO-MINGLE <input type="checkbox"/> SEGREGATE <input type="checkbox"/> CLEAN-UP MATERIAL |  |                                      |
| <b>LOCATION: SHELTON, WASHINGTON</b><br>522 RAILROAD AVENUE                                                                 |  | <b>COUNTY: * Mason</b>               |
| <b>CONTACT: LISA PALAZZI</b>                                                                                                |  | <b>PHONE: 360-352-9456</b>           |
|                                                                                                                             |  | <b>FAX:</b><br>lisa@jwmorrisette.com |
| <b>Recertification:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No                                            |  |                                      |

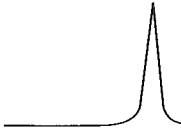
|                                                           |                 |                  |
|-----------------------------------------------------------|-----------------|------------------|
| <b>BILLING:</b><br>SALES    SIMPSON TIMBER COMPANY VIA WM | <b>PO#:</b> N/A | <b>JOB#:</b> N/A |
|-----------------------------------------------------------|-----------------|------------------|

|                                                                                                                                                                        |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>TYPE OF DISPOSAL/SPECIAL HANDLING :</b><br>SOILS HAVE BEEN TREATED TO MEET 40 CFR 268.48 STANDARDS, SIGNED CERTIFICATE OF TREATMENT ATTACHED TO PROFILE APPLICATION | <b>COMMODITY: CONTAMINATED SOILS</b> |
| *****PLEASE CALL OVTS TO SCHEDULE DISPOSAL*****                                                                                                                        |                                      |

|                                                                                                      |                        |                                  |
|------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| <b>APPROVED:</b>  | <b>KRISTIN CASTNER</b> | <b>DATE: 11/21/12 8:55:13 AM</b> |
|------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|

A COPY OF THIS PERMIT MUST BE SHOWN BY EACH DRIVER  
**PROJECTS MUST BE SCHEDULED WITH FACILITY**  
**MANAGEMENT CALL : 360-674-2297**

2012



# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • [www.spectra-lab.com](http://www.spectra-lab.com)

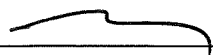
11/05/2012

Simpson Tacoma Kraft Co.  
801 East Portland Ave.  
Tacoma, WA 98421  
Attn: Betsy Stauffer

P.O.#: \*\*  
Project: Railroad Avenue, Shelton, WA  
Client ID: #1 SP-1 Base  
Sample Matrix: Soil  
Date Sampled: 10/15/2012  
Date Received: 10/18/2012  
Spectra Project: 2012100471  
Spectra Number: 1  
Rush

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|----------------|---------------|--------------|---------------|
| Total Lead     | 10            | mg/Kg        | SW846 6010B   |

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager  
a5/scj

Page 1 of 4





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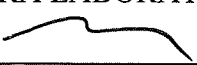
11/05/2012

Simpson Tacoma Kraft Co.  
801 East Portland Ave.  
Tacoma, WA 98421  
Attn: Betsy Stauffer

P.O.#: \*\*  
Project: Railroad Avenue, Shelton, WA  
Client ID: #2 SP-2 Base  
Sample Matrix: Soil  
Date Sampled: 10/15/2012  
Date Received: 10/18/2012  
Spectra Project: 2012100471  
Spectra Number: 2  
Rush

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|----------------|---------------|--------------|---------------|
| Total Lead     | < 4           | mg/Kg        | SW846 6010B   |

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Steve Hibbs, Laboratory Manager  
a5/scj



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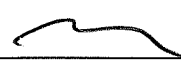
11/05/2012

Simpson Tacoma Kraft Co.  
801 East Portland Ave.  
Tacoma, WA 98421  
Attn: Betsy Stauffer

P.O.#: \*\*  
Project: Railroad Avenue, Shelton, WA  
Client ID: #3 Treated Soils 1  
Sample Matrix: Soil  
Date Sampled: 10/15/2012  
Date Received: 10/18/2012  
Spectra Project: 2012100471  
Spectra Number: 3  
Rush

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|----------------|---------------|--------------|---------------|
| TCLP Chromium  | 0.014         | mg/L         | SW846 6010B   |
| TCLP Lead      | 0.06          | mg/L         | SW846 6010B   |

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Page 3 of 4



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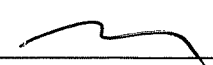
11/05/2012

Simpson Tacoma Kraft Co.  
801 East Portland Ave.  
Tacoma, WA 98421  
Attn: Betsy Stauffer

P.O.#: \*\*  
Project: Railroad Avenue, Shelton, WA  
Client ID: #4 Treated Soils 2  
Sample Matrix: Soil  
Date Sampled: 10/15/2012  
Date Received: 10/18/2012  
Spectra Project: 2012100471  
Spectra Number: 4  
Rush

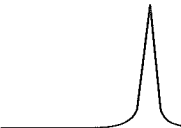
| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|----------------|---------------|--------------|---------------|
| TCLP Chromium  | 0.060         | mg/L         | SW846 6010B   |
| TCLP Lead      | < 0.04        | mg/L         | SW846 6010B   |

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Steve Hibbs, Laboratory Manager

a5/scj



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11/5/2012

Simpson Tacoma Kraft Co.  
801 E. Portland Ave.  
Tacoma, WA 98421

Units: mg/L  
Spectra Project: 2012100471  
Applies to Spectra #'s 3 and 4

## QUALITY CONTROL RESULTS

### ICP Metals SW846 6010B - TCLP

#### Method Blank

Date Digested: 11/5/2012 Date Analyzed: 11/5/2012

| <u>Element</u> | <u>Result</u> |
|----------------|---------------|
| Chromium       | < 0.04        |

#### Blank Spike (LCS)

Date Digested: 11/5/2012 Date Analyzed: 11/5/2012

| <u>Element</u> | <u>Spike Added</u> | <u>LCS Conc.</u> | <u>LCS %Rec</u> |
|----------------|--------------------|------------------|-----------------|
| Chromium       | 1.0                | 1.112            | 111.2           |

LCS Recovery limits 80-120%

#### Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 11/1/2012 Date Analyzed: 11/1/2012  
Sample Spiked: 2012100855-1

| <u>Element</u> | <u>Sample Conc.</u> | <u>Spike Conc.</u> | <u>MS Conc.</u> | <u>MS %Rec</u> | <u>MSD Conc</u> | <u>MSD %Rec</u> | <u>RPD</u> |
|----------------|---------------------|--------------------|-----------------|----------------|-----------------|-----------------|------------|
| Chromium       | 0.024               | 1.0                | 1.046           | 102.2          | 1.038           | 101.4           | 0.8        |

Recovery Limits 75-125%

RPD Limit 20

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Steven G. Hibbs  
Laboratory Manager

# SPECTRA Laboratories

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## CHAIN of CUSTODY

PAGE 1 of 1

STANDARD ☐

RUSH ☒

|                                                                                                                                                            |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--------------|--------------------------------------------|---|--------------|-----|-----------------------------------------|---------|----------|--------------|----------------|--------------|---------------------|-------------------|--------------|--------------|---------------------|------------------------|--------------------|-----------------------|----------------|--------------|------------|-----------|-------------|-----|------------------|
| CLIENT: Simpson Timber                                                                                                                                     |  |              |              | ADDRESS: 917 11th Street, Tacoma, WA 98421 |   |              |     | ADDRESS CHANGE <input type="checkbox"/> |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| PROJECT: Railroad Avenue, Shelton, WA                                                                                                                      |  |              |              | NUMBER OF CONTAINERS                       |   | HYDROCARBONS |     | ORGANICS                                |         | METALS   |              | OTHER          |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| CONTACT: Betsy Stauffer                                                                                                                                    |  |              |              |                                            |   | NWTPH-HCID   | BTX | BTX/NWTPH-G                             | NWTPH-G | NWTPH-Dx | 1664 SGT-HEM | 1664 HEM (FOG) | 8260/624 VOA | 8260 CHLOR SOLVENTS | 8270/625 SEMI VOA | 8270 PAH/PNA | 8082/608 PCB | TOTAL METALS RCRA 8 | TOTAL METALS (SPECIFY) | TCLP METALS RCRA 8 | TCLP METALS (SPECIFY) | SPECIFY = LEAD | PH 9040/9045 | TX/TOX/EOX | TURBIDITY | FLASH POINT | BOD | SOLIDS (SPECIFY) |
| PHONE: 253-779-6406 FAX:                                                                                                                                   |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| e-MAIL: <a href="mailto:lisa@jwmorrisette.com">lisa@jwmorrisette.com</a> Prefer FAX <input type="checkbox"/> or e-MAIL <input checked="" type="checkbox"/> |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| PURCHASE ORDER # Call for credit card                                                                                                                      |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| SAMPLE ID                                                                                                                                                  |  | DATE SAMPLED | TIME SAMPLED | MATRIX                                     |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 1 #1 SP-1 Base                                                                                                                                             |  | 10/15/12     | 10am         | soil                                       | 1 |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 2 #2 SP-2 Base                                                                                                                                             |  | 10/15/12     | 10am         | soil                                       | 1 |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 3 #3 Treated soils 1                                                                                                                                       |  | 10/15/12     | 4 pm         | soil                                       | 1 |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 4 #4 Treated soils 2                                                                                                                                       |  | 10/15/12     | 4 pm         | soil                                       | 1 |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 5                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 6                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 7                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 8                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 9                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |
| 0                                                                                                                                                          |  |              |              |                                            |   |              |     |                                         |         |          |              |                |              |                     |                   |              |              |                     |                        |                    |                       |                |              |            |           |             |     |                  |

**SPECIAL INSTRUCTIONS/COMMENTS:**  
**"SPECIFY" for TCLP as well as TOTAL METALS test = LEAD (Pb) (Please note that the column heading above that says (SPECIFY) cannot be edited.)**

| SIGNATURE | PRINTED NAME    | COMPANY               | DATE     | TIME   |
|-----------|-----------------|-----------------------|----------|--------|
|           | Lisa M. Palazzi | J.W. Morrisette & Co. | 10/17/12 | 4:10pm |
|           | Randa L. Ross   | Spectra               | 10/18/12 | 1000   |
|           |                 |                       |          |        |
|           |                 |                       |          |        |

Payment Terms: Net 30 days. Past due accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

RETURN SAMPLES ☐ DISPOSE SAMPLES ☒

(Shipping Fee Applies)

## **Boring Logs**

## Soil Classification System

| MAJOR DIVISIONS                                                                      |                                                                                            |                                                    | GRAPHIC SYMBOL | USCS LETTER SYMBOL <sup>(1)</sup> | TYPICAL DESCRIPTIONS <sup>(2)(3)</sup>                                                                         |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| COARSE-GRAINED SOIL<br>(More than 50% of material is larger than No. 200 sieve size) | GRAVEL AND GRAVELLY SOIL<br><br>(More than 50% of coarse fraction retained on No. 4 sieve) | CLEAN GRAVEL<br>(Little or no fines)               |                | <b>GW</b>                         | Well-graded gravel; gravel/sand mixture(s); little or no fines                                                 |
|                                                                                      |                                                                                            |                                                    |                | <b>GP</b>                         | Poorly graded gravel; gravel/sand mixture(s); little or no fines                                               |
|                                                                                      |                                                                                            | GRAVEL WITH FINES<br>(Appreciable amount of fines) |                | <b>GM</b>                         | Silty gravel; gravel/sand/silt mixture(s)                                                                      |
|                                                                                      |                                                                                            |                                                    |                | <b>GC</b>                         | Clayey gravel; gravel/sand/clay mixture(s)                                                                     |
|                                                                                      | SAND AND SANDY SOIL<br><br>(More than 50% of coarse fraction passed through No. 4 sieve)   | CLEAN SAND<br>(Little or no fines)                 |                | <b>SW</b>                         | Well-graded sand; gravelly sand; little or no fines                                                            |
|                                                                                      |                                                                                            |                                                    |                | <b>SP</b>                         | Poorly graded sand; gravelly sand; little or no fines                                                          |
|                                                                                      |                                                                                            | SAND WITH FINES<br>(Appreciable amount of fines)   |                | <b>SM</b>                         | Silty sand; sand/silt mixture(s)                                                                               |
|                                                                                      |                                                                                            |                                                    |                | <b>SC</b>                         | Clayey sand; sand/clay mixture(s)                                                                              |
| FINE-GRAINED SOIL<br>(More than 50% of material is smaller than No. 200 sieve size)  | SILT AND CLAY<br>(Liquid limit less than 50)                                               |                                                    |                | <b>ML</b>                         | Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity |
|                                                                                      |                                                                                            |                                                    |                | <b>CL</b>                         | Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay                   |
|                                                                                      |                                                                                            |                                                    |                | <b>OL</b>                         | Organic silt; organic, silty clay of low plasticity                                                            |
|                                                                                      | SILT AND CLAY<br>(Liquid limit greater than 50)                                            |                                                    |                | <b>MH</b>                         | Inorganic silt; micaceous or diatomaceous fine sand                                                            |
|                                                                                      |                                                                                            |                                                    |                | <b>CH</b>                         | Inorganic clay of high plasticity; fat clay                                                                    |
|                                                                                      |                                                                                            |                                                    |                | <b>OH</b>                         | Organic clay of medium to high plasticity; organic silt                                                        |
|                                                                                      | HIGHLY ORGANIC SOIL                                                                        |                                                    |                | <b>PT</b>                         | Peat; humus; swamp soil with high organic content                                                              |

| OTHER MATERIALS | GRAPHIC SYMBOL | LETTER SYMBOL   | TYPICAL DESCRIPTIONS                                  |
|-----------------|----------------|-----------------|-------------------------------------------------------|
| PAVEMENT        |                | <b>AC or PC</b> | Asphalt concrete pavement or Portland cement pavement |
| ROCK            |                | <b>RK</b>       | Rock (See Rock Classification)                        |
| WOOD            |                | <b>WD</b>       | Wood, lumber, wood chips                              |
| DEBRIS          |                | <b>DB</b>       | Construction debris, garbage                          |

### NOTES:

- USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
- Soil descriptions are based on the general approach presented in the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*, outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the *Standard Test Method for Classification of Soils for Engineering Purposes*, as outlined in ASTM D 2487.
- Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:

Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.  
 Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.  
 > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.  
 Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt," etc.  
 ≤ 5% - "trace gravel," "trace sand," "trace silt," etc., or not noted.

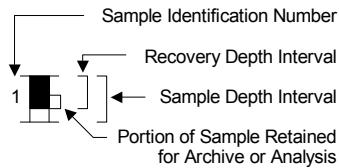


## Drilling and Sampling Key

### SAMPLER TYPE

### SAMPLE NUMBER & INTERVAL

| Code | Description                                |
|------|--------------------------------------------|
| a    | 3.25-inch O.D., 2.42-inch I.D. Split Spoon |
| b    | 2.00-inch O.D., 1.50-inch I.D. Split Spoon |
| c    | Shelby Tube                                |
| d    | Grab Sample                                |
| e    | Single-Tube Core Barrel                    |
| f    | Double-Tube Core Barrel                    |
| g    | Other - See text if applicable             |
| 1    | 300-lb Hammer, 30-inch Drop                |
| 2    | 140-lb Hammer, 30-inch Drop                |
| 3    | Pushed                                     |
| 4    | Rotosonic                                  |
| 5    | Air Rotary (Rock)                          |
| 6    | Wash Rotary (Rock)                         |
| 7    | Other - See text if applicable             |



## Field and Lab Test Data

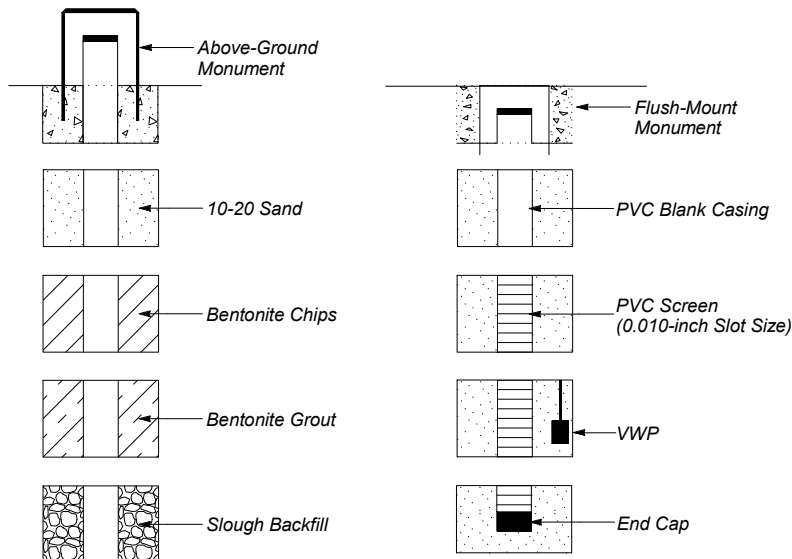
| Code      | Description                                     |
|-----------|-------------------------------------------------|
| PP = 1.0  | Pocket Penetrometer, tsf                        |
| TV = 0.5  | Torvane, tsf                                    |
| PID = 100 | Photoionization Detector VOC screening, ppm     |
| W = 10    | Moisture Content, %                             |
| D = 120   | Dry Density, pcf                                |
| -200 = 60 | Material smaller than No. 200 sieve, %          |
| GS        | Grain Size - See separate figure for data       |
| AL        | Atterberg Limits - See separate figure for data |
| VST       | Vane Shear Test                                 |
| GT        | Other Geotechnical Testing                      |
| CA        | Chemical Analysis                               |

## Groundwater

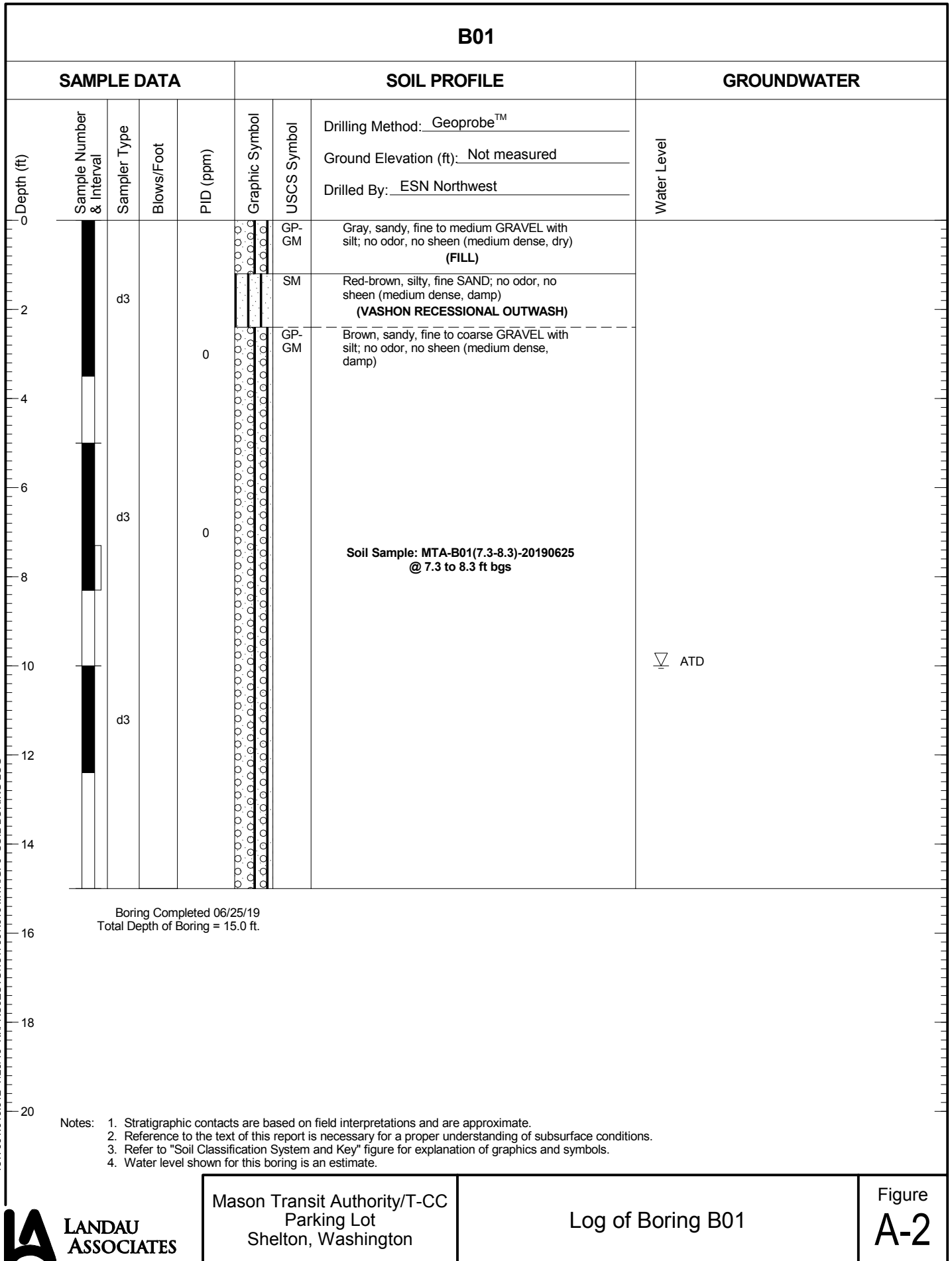
- ▽ Approximate water elevation at time of drilling (ATD).
- ▼ Approximate water elevation at other time(s). When multiple water levels are obtained other than ATD, only a representative range is shown. See text for additional information.

**Note:** Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

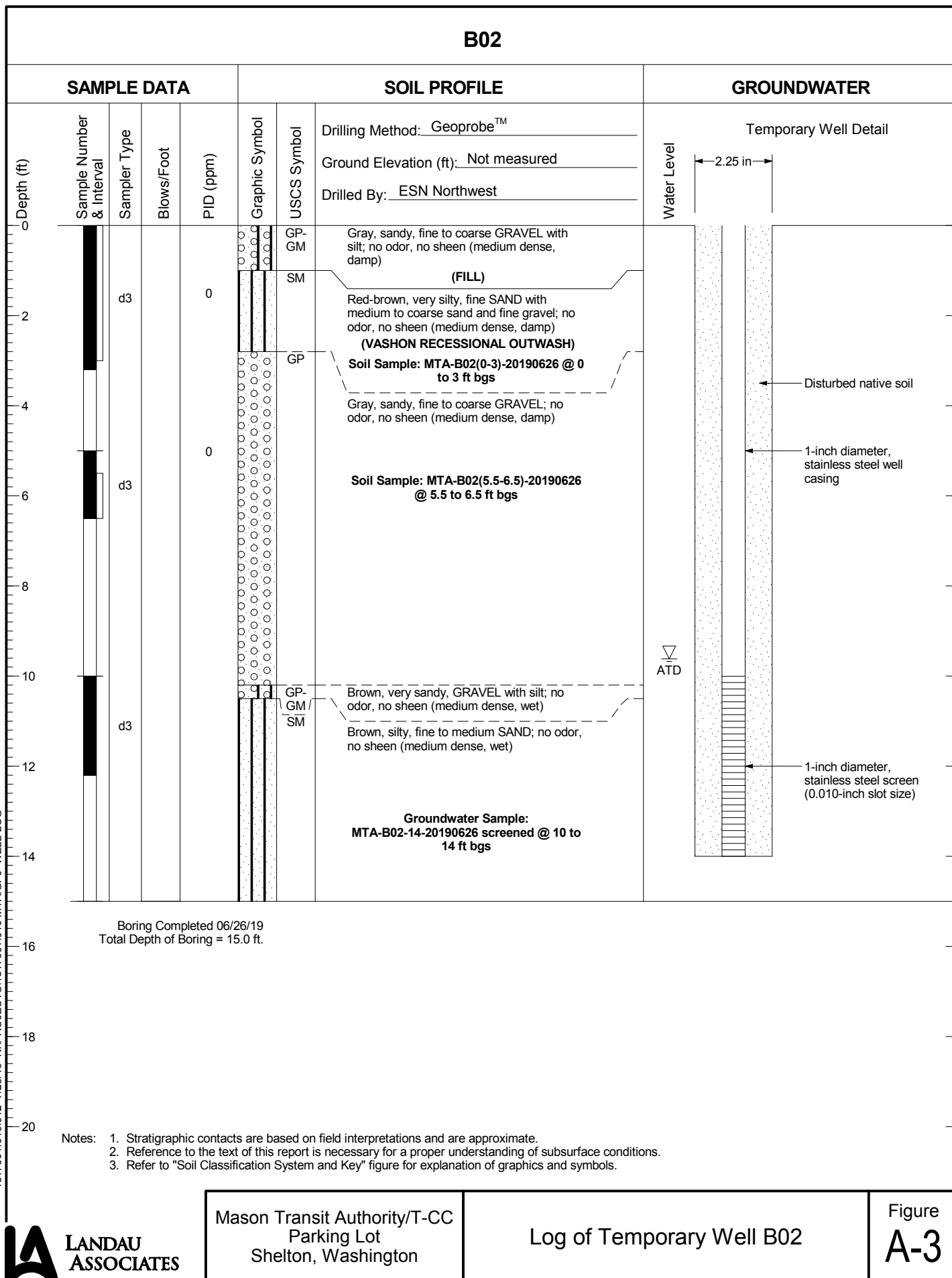
## Well Log Graphics



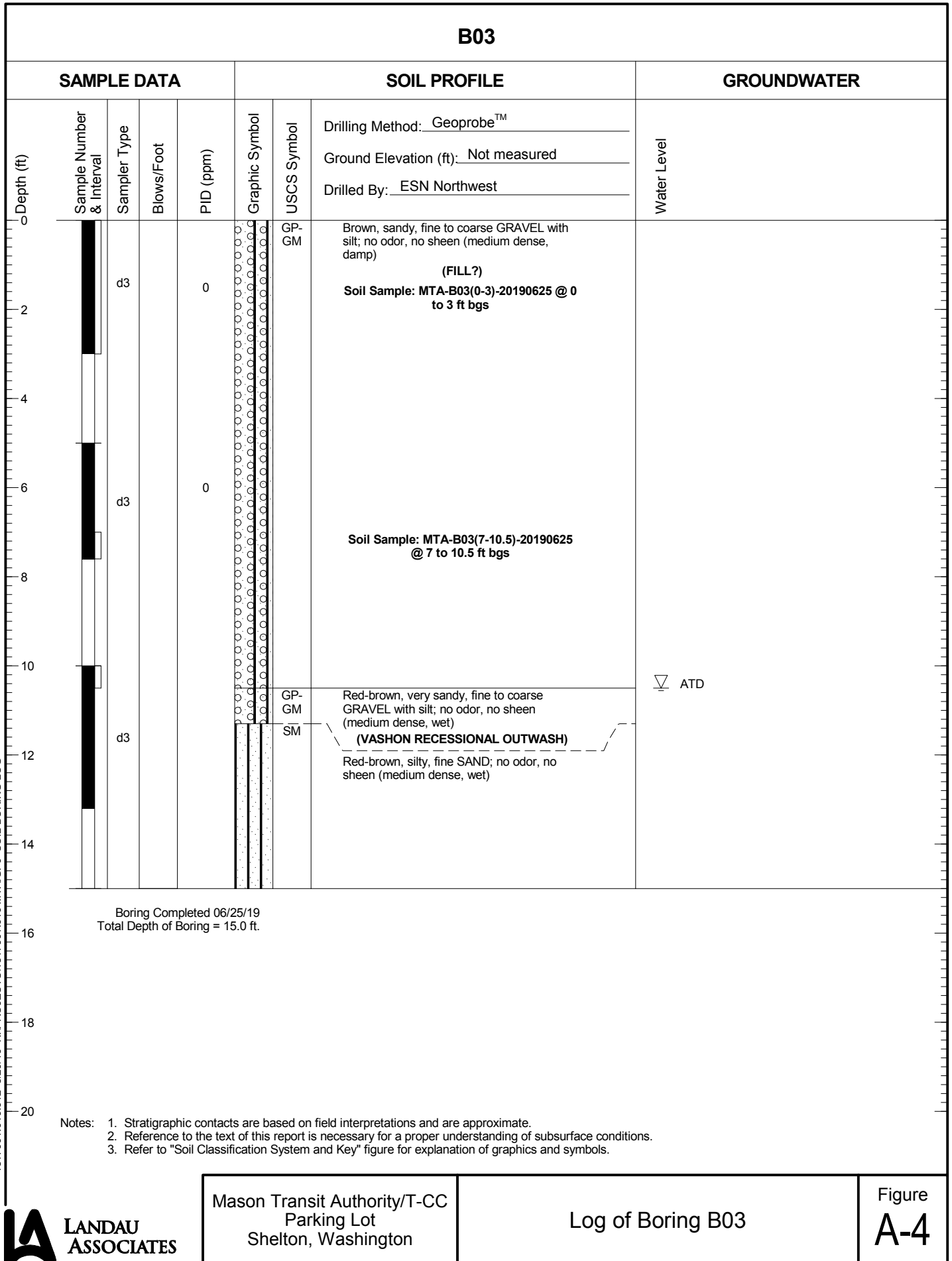
1817001.010.012 7/23/19 N:\PROJECTS\1817001.010 MTA.GPJ SOIL BORING LOG



1817001.010.012 7/23/19 N:\PROJECTS\1817001.010 MTA.GPJ WELL LOG



1817001.010.012 8/29/19 N:\PROJECTS\1817001.010 MTA.GPJ SOIL BORING LOG



| B04         |                          |              |            |              |                |                                                                                                                                          |
|-------------|--------------------------|--------------|------------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| SAMPLE DATA |                          |              |            | SOIL PROFILE |                | GROUNDWATER                                                                                                                              |
| Depth (ft)  | Sample Number & Interval | Sampler Type | Blows/Foot | PID (ppm)    | Graphic Symbol | USCS Symbol                                                                                                                              |
|             |                          |              |            |              |                | Drilling Method: Geoprobe™<br>Ground Elevation (ft): Not measured<br>Drilled By: ESN Northwest                                           |
| 0           |                          |              |            |              |                | Gray, sandy, fine to medium GRAVEL with silt; no odor, no sheen (medium dense, damp)                                                     |
| 2           | d3                       |              |            | 0            |                | (FILL)<br>Red-brown, silty, fine SAND; no odor, no sheen (medium dense, damp)<br>(VASHON RECESSIONAL OUTWASH)<br>- grades to with gravel |
| 4           |                          |              |            |              |                | Red-brown, silty, fine to medium SAND; no odor, no sheen (medium dense, damp)                                                            |
| 6           | d3                       |              |            | 0            |                | Gray, sandy, fine to coarse GRAVEL with silt; no odor, no sheen (medium dense, damp)                                                     |
| 8           |                          |              |            |              |                | Brown, sandy, fine GRAVEL with silt; no odor, no sheen (medium dense, damp)                                                              |
| 10          | d3                       |              |            |              |                | - grades to fine to coarse gravel<br><b>Soil Sample:</b><br><b>MTA-B04(10.5-11.5)-20190625 @ 10.5 to 11.5 ft bgs</b><br>- grades to wet  |
| 12          |                          |              |            |              |                |                                                                                                                                          |
| 14          |                          |              |            |              |                |                                                                                                                                          |
| 16          |                          |              |            |              |                |                                                                                                                                          |
| 18          |                          |              |            |              |                |                                                                                                                                          |
| 20          |                          |              |            |              |                |                                                                                                                                          |

Boring Completed 06/25/19  
Total Depth of Boring = 15.0 ft.

Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

**LANDAU ASSOCIATES**

Mason Transit Authority/T-CC  
Parking Lot  
Shelton, Washington

Log of Boring B04

Figure  
**A-5**

1817001.010.012 7/23/19 N:\PROJECTS\1817001.010 MTA.GPJ SOIL BORING LOG

Boring Completed 06/25/19  
Total Depth of Boring = 15.0 ft.

Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

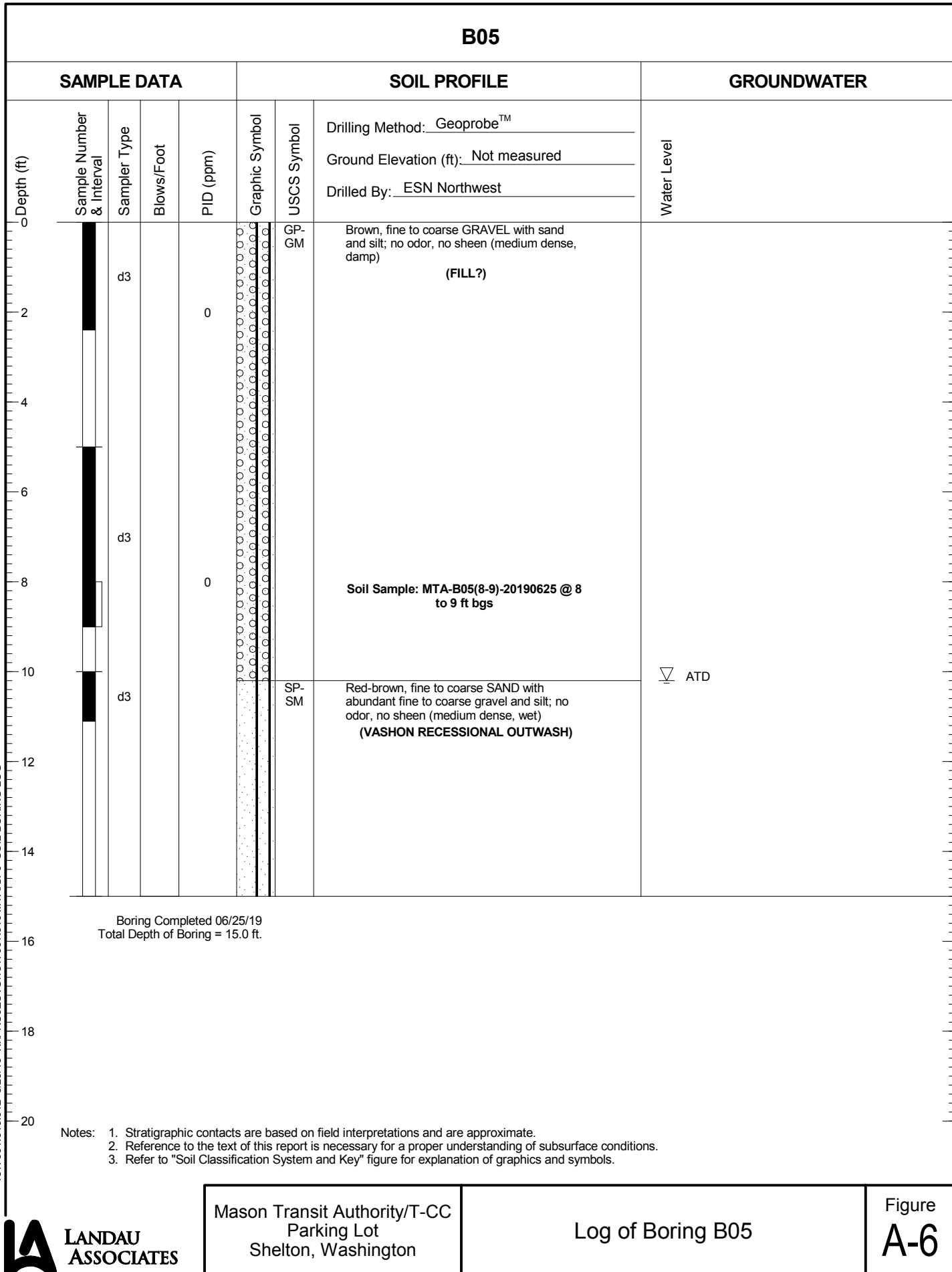


Mason Transit Authority/T-CC  
Parking Lot  
Shelton, Washington

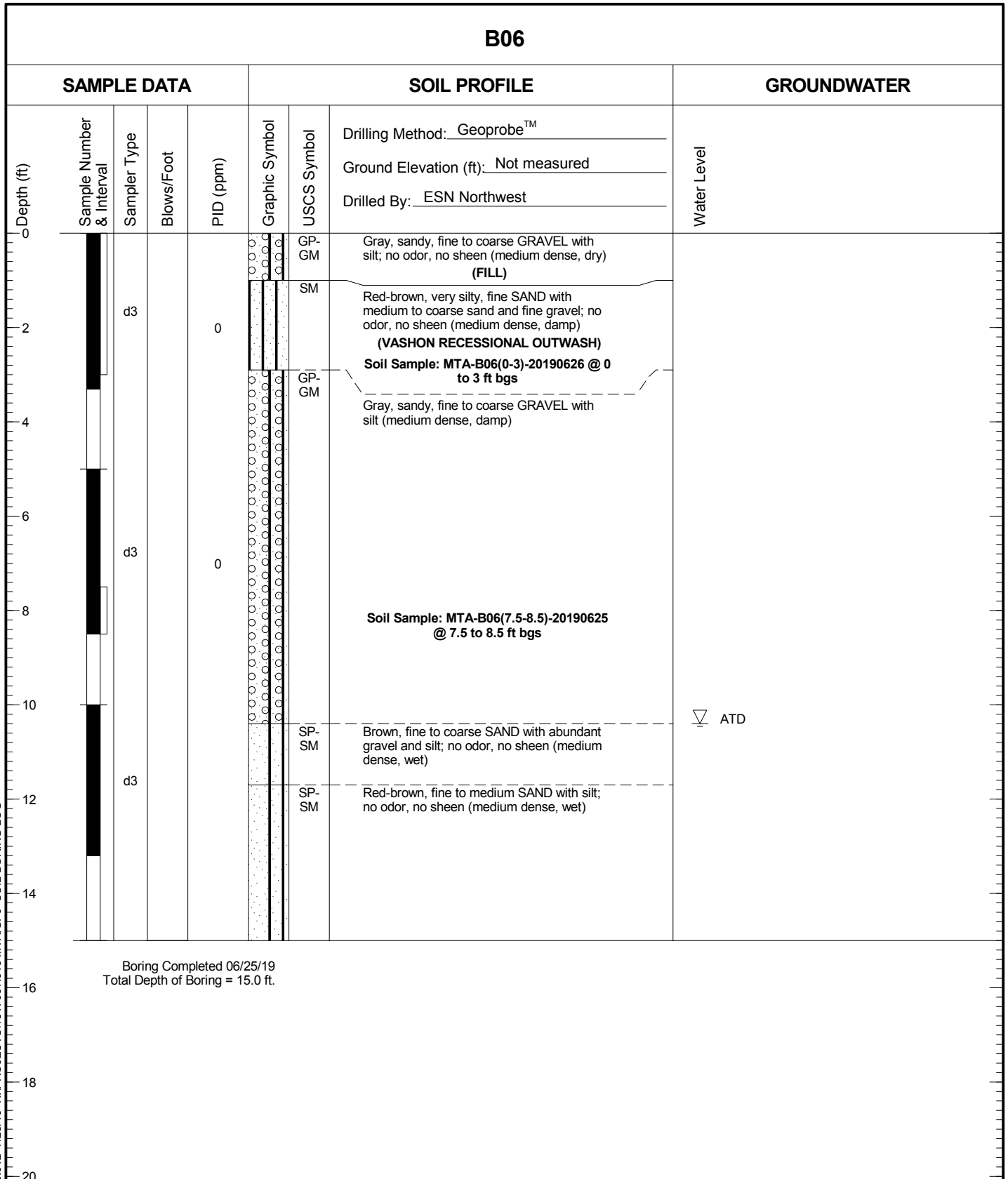
## Log of Boring B04

Figure  
A-5

1817001.010.012 8/29/19 N:\PROJECTS\1817001.010 MTA.GPJ SOIL BORING LOG



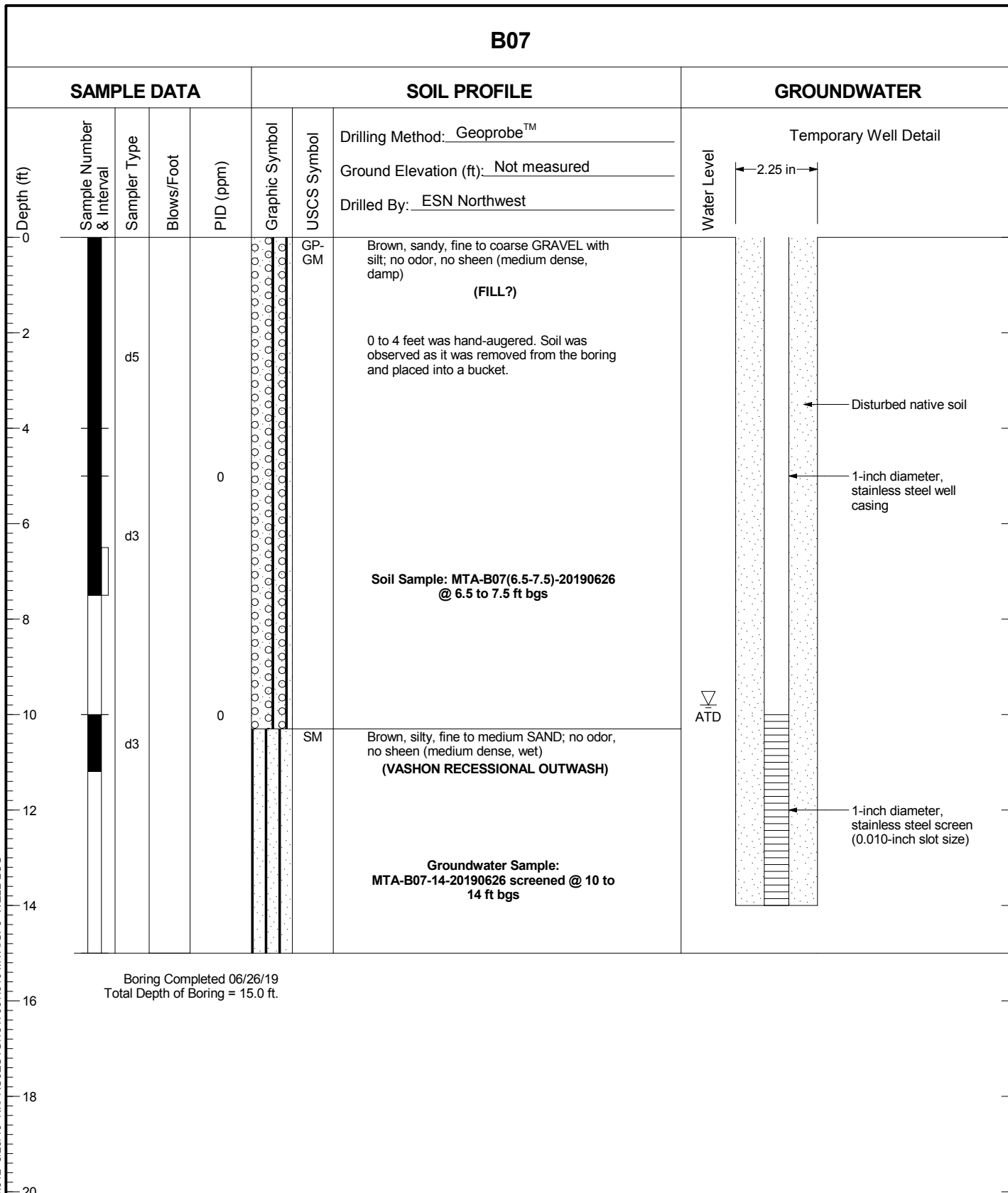
1817001.010.012 7/23/19 N:\PROJECTS\1817001.010 MTA.GPJ SOIL BORING LOG



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



1817001.010.012 8/29/19 N:\PROJECTS\1817001.010 MTA.GPJ WELL LOG



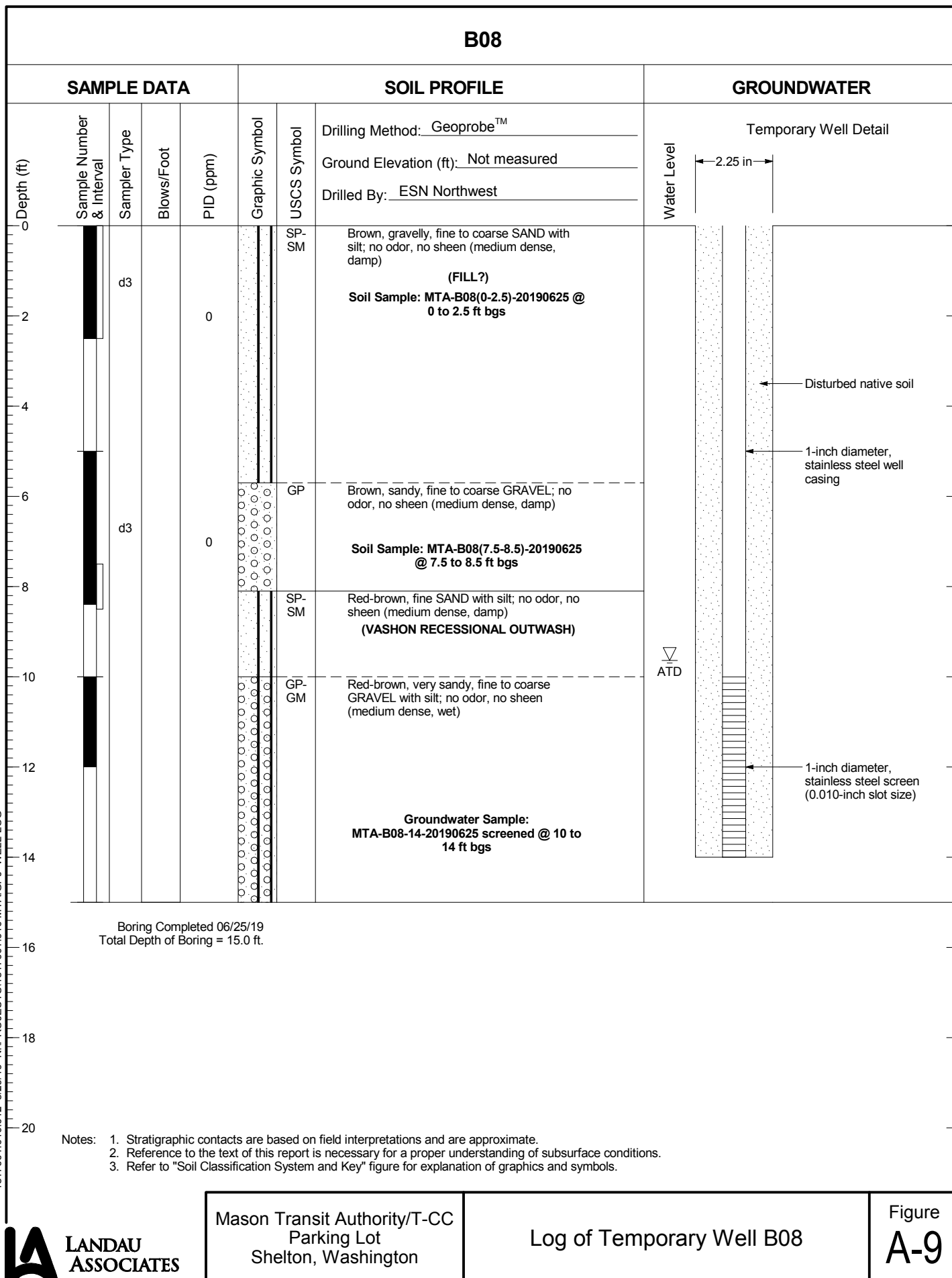
LANDAU ASSOCIATES

Mason Transit Authority/T-CC  
Parking Lot  
Shelton, Washington

Log of Temporary Well B07

Figure  
A-8

1817001.010.012 8/29/19 N:\PROJECTS\1817001.010 MTA.GPJ WELL LOG



LANDAU  
ASSOCIATES

Mason Transit Authority/T-CC  
Parking Lot  
Shelton, Washington

Log of Temporary Well B08

Figure  
A-9

# **Voluntary Cleanup Program Terrestrial Ecological Evaluation Form**



# Voluntary Cleanup Program

## Washington State Department of Ecology Toxics Cleanup Program

### TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

***Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.***

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation>.

#### Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Mason County Public Trans Site

Facility/Site Address: 536 W Railroad Ave., Shelton, Mason County, WA 98584

Facility/Site No: 69807

VCP Project No.: SW1634

#### Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: Sarah Fees, LG

Title: Associate Geologist

Organization: Landau Associates, Inc.

Mailing address: 2107 South C Street

City: Tacoma

State: WA

Zip code: 98402

Phone: 253-284-4877

Fax: n/a

E-mail: sfees@landauinc.com

### Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

#### A. Exclusion from further evaluation.

##### 1. Does the Site qualify for an exclusion from further evaluation?

- ☒ Yes    *If you answered "YES," then answer **Question 2**.*
- ☐ No or Unknown    *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

##### 2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- ☐ All soil contamination is, or will be,\* at least 15 feet below the surface.
- ☐ All soil contamination is, or will be,\* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- ☐ All contaminated soil, is or will be,\* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- ☐ There is less than 0.25 acres of contiguous<sup>#</sup> undeveloped<sup>±</sup> land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.

- ☒ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous<sup>#</sup> undeveloped<sup>±</sup> land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- ☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

\* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

# "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

See  
attached  
Figure

## B. Simplified evaluation.

### 1. Does the Site qualify for a simplified evaluation?

- ☐ Yes    *If you answered "YES," then answer **Question 2** below.*
- ☐ No or Unknown    *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

### 2. Did you conduct a simplified evaluation?

- ☐ Yes    *If you answered "YES," then answer **Question 3** below.*
- ☐ No    *If you answered "NO," then skip to **Step 3C** of this form.*

### 3. Was further evaluation necessary?

- ☐ Yes    *If you answered "YES," then answer **Question 4** below.*
- ☐ No    *If you answered "NO," then answer **Question 5** below.*

### 4. If further evaluation was necessary, what did you do?

- ☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- ☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

### 5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- ☐ Area of soil contamination at the Site is not more than 350 square feet.
- ☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- ☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

**C. Site-specific evaluation.** A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

**1. Was there a problem?** See WAC 173-340-7493(2).

- ☐ Yes    *If you answered "YES," then answer **Question 2** below.*
- ☐ No    *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

**2. What did you do to resolve the problem?** See WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

**3. If you conducted further site-specific evaluations, what methods did you use?**  
*Check all that apply. See WAC 173-340-7493(3).*

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

**4. What was the result of those evaluations?**

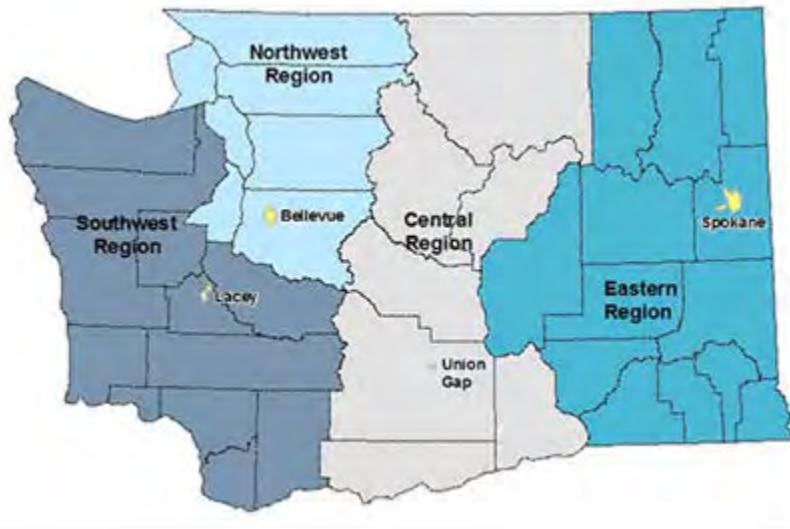
- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

**5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?**

- ☐ Yes    If so, please identify the Ecology staff who approved those steps:
- ☐ No

## Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



|                                                                                                                |                                                                                                    |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Northwest Region:</b><br>Attn: VCP Coordinator<br>3190 160 <sup>th</sup> Ave. SE<br>Bellevue, WA 98008-5452 | <b>Central Region:</b><br>Attn: VCP Coordinator<br>1250 West Alder St.<br>Union Gap, WA 98903-0009 |
| <b>Southwest Region:</b><br>Attn: VCP Coordinator<br>P.O. Box 47775<br>Olympia, WA 98504-7775                  | <b>Eastern Region:</b><br>Attn: VCP Coordinator<br>N. 4601 Monroe<br>Spokane WA 99205-1295         |

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.





## Laboratory Analytical Data Tables



## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

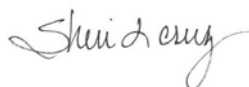
Laboratory Job ID: 580-87175-1

Client Project/Site: MTA Parking Lot, Shelton, WA

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
7/11/2019 5:40:41 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Job ID: 580-87175-1**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-87175-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/25/2019 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.7° C.

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-304251 recovered above the upper control limit for Methyl tert-butyl ether (23.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260C: Surrogate 1,2-Dichloroethane-d4 (Surr) recovery for the following samples were outside the upper control limit: MTA-B08(0-2.5)-20190625 (580-87175-4), MTA-B08(7.5-8.5)-20190625 (580-87175-5), MTA-B03(0-3)-20190625 (580-87175-7), MTA-B06(7.5-8.5)-20190625 (580-87175-8), MTA-B05(0-2.4)-20190625 (580-87175-9), MTA-B05(8-9)-20190625 (580-87175-10), MTA-B04(10.5-11.5)-20190625 (580-87175-11) and MTA-B01(0-3)-20190625 (580-87175-12). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8011: The continuing calibration verification (CCV) associated with 580-305285 recovered outside the control limits for 1,2-Dibromopropane on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: MTA-B08-14-20190625 (580-87175-6) and (CCV 580-305243/1-A).

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. MTA-B08(0-2.5)-20190625 (580-87175-4), MTA-B03(0-3)-20190625 (580-87175-7), MTA-B01(0-3)-20190625 (580-87175-12) and (580-87175-D-7-C DU)

Method(s) 8082A: The following sample(s) contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor: MTA-B03(0-3)-20190625 (580-87175-7) and MTA-B01(0-3)-20190625 (580-87175-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

Method(s) Moisture: Percent moisture associated with duplicate QC MTA-B08(0-2.5)-20190625 (580-87175-4) and (580-87175-F-4 DU) is outside RPD limits. Due to low moisture content in the sample and duplicate, effects of RPD on moisture content are amplified. The data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

### Job ID: 580-87175-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Seattle (Continued)

##### VOA Prep

Method(s) 5035: The following sample(s) was provided to the laboratory with a significantly different initial weight than that required by the reference method: 580-87175-a-7 (6.042g), 580-87175-b-9 (6.099g), 580-87175-a-12 (6.657g), and 580-87097-b-3. Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

Method(s) 5035: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: MTA-B04(10.5-11.5)-20190625 (580-87175-11). The method requires 8g-12g. The amount provided was above this range at 12.313g.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description               |
|-----------|-------------------------------------|
| X         | Surrogate is outside control limits |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

| Lab Sample ID | Client Sample ID            | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------------|--------|----------------|----------------|----------|
| 580-87175-1   | TripBlank1-20190625         | Solid  | 06/25/19 00:01 | 06/25/19 16:55 |          |
| 580-87175-2   | TripBlank2-20190625         | Water  | 06/25/19 00:01 | 06/25/19 16:55 |          |
| 580-87175-3   | MTA-B03(7.-10.5)-20190625   | Solid  | 06/25/19 09:15 | 06/25/19 16:55 |          |
| 580-87175-4   | MTA-B08(0-2.5)-20190625     | Solid  | 06/25/19 10:00 | 06/25/19 16:55 |          |
| 580-87175-5   | MTA-B08(7.5-8.5)-20190625   | Solid  | 06/25/19 10:20 | 06/25/19 16:55 |          |
| 580-87175-6   | MTA-B08-14-20190625         | Water  | 06/25/19 11:09 | 06/25/19 16:55 |          |
| 580-87175-7   | MTA-B03(0-3)-20190625       | Solid  | 06/25/19 11:45 | 06/25/19 16:55 |          |
| 580-87175-8   | MTA-B06(7.5-8.5)-20190625   | Solid  | 06/25/19 12:35 | 06/25/19 16:55 |          |
| 580-87175-9   | MTA-B05(0-2.4)-20190625     | Solid  | 06/25/19 13:00 | 06/25/19 16:55 |          |
| 580-87175-10  | MTA-B05(8-9)-20190625       | Solid  | 06/25/19 13:15 | 06/25/19 16:55 |          |
| 580-87175-11  | MTA-B04(10.5-11.5)-20190625 | Solid  | 06/25/19 14:00 | 06/25/19 16:55 |          |
| 580-87175-12  | MTA-B01(0-3)-20190625       | Solid  | 06/25/19 14:35 | 06/25/19 16:55 |          |
| 580-87175-13  | MTA-B01(7.3-8.3)-20190625   | Solid  | 06/25/19 14:45 | 06/25/19 16:55 |          |





# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/25/2019  
 Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
 Project Location/Event Shelton, WA  
 Sampler's Name Katie Gauglitz  
 Project Contact Sarah Fees  
 Send Results To D. Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:  
 Shipment Method:  
 Stored on ice: ☒ Yes ☐ No

| Sample I.D.                 | Date    | Time | Matrix | No. of Containers |
|-----------------------------|---------|------|--------|-------------------|
| Trip Blank 1 - 20190625     | —       | —    | Soil   | 3                 |
| Trip Blank 2 - 20190625     | —       | —    | Ag     | 6                 |
| MTA-B03(7-10.5)-20190625    | 6/25/19 | 915  | Soil   | 5                 |
| MTA-B08(0-2.5)-20190625     |         | 1000 | Soil   | 5                 |
| MTA-B04(7.5-8.5)-20190625   |         | 1020 | Soil   | 5                 |
| MTA-B08-14-20190625         |         | 1109 | Ag     | 15                |
| MTA-B03(0-3)-20190625       |         | 1145 | Soil   | 5                 |
| MTA-B06(7.5-8.5)-20190625   |         | 1235 | Soil   | 5                 |
| MTA-B05(0-2.4)-20190625     |         | 1300 | Soil   | 5                 |
| MTA-B05(8-9)-20190625       |         | 1315 | Soil   | 5                 |
| MTA-B04(10.5-11.5)-20190625 |         | 1400 | Soil   | 5                 |
| MTA-B01(0-3)-20190625       |         | 1435 | Soil   | 5                 |
| MTA-B01(7.3-8.3)-20190625   |         | 1445 | Soil   | 5                 |

| PCRA Metals | Hex Chromium | BTEX    | TPH-G | TPH-D | CPAH  | PCB  | EDB |
|-------------|--------------|---------|-------|-------|-------|------|-----|
| 6020A       | 7190A        | 8260C   | 8270  | 8082A | 8260C | 8011 |     |
| MTBE        | NWTPH-G      | NWTPH-D |       |       |       |      |     |

## Observations/Comments

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐  
 - Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

Other

Therm. ID: A2 Cor: 3.2 ° Unc: 3.5 °  
 Cooler Desc: kg Blue  
 Packing: bubb FedEx:  
 Cust. Seal: Yes No \* UPS:  
 Blue Ice, Wet, Dry, None Lab Cour:  
 Other:

Therm. ID: A2 Cor: 3.7 ° Unc: 4.0 °  
 Cooler Desc: kg Blue  
 Packing: bubb FedEx:  
 Cust. Seal: Yes No \* UPS:  
 Blue Ice, Wet, Dry, None Lab Cour:  
 Other: cf. drc

## Relinquished by

Signature Katie Gauglitz  
 Printed Name Katie Gauglitz  
 Company Landau Associates  
 Date 6/25/2019 Time 16:55

## Received by

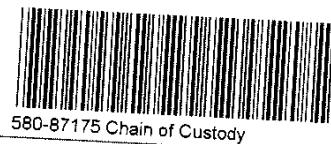
Signature Tom Blankinship  
 Printed Name Blankinship  
 Company TA-SEA  
 Date 6/25/19 Time 16:55

## Relinquished by

Signature  
 Printed Name  
 Company  
 Date Time

## Received by

Signature  
 Printed Name  
 Company  
 Date Time



580-87175 Chain of Custody

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2018



# Chain-of-Custody Record

Seattle/Edmonds (425) 775-2500  
Tacoma (253) 826-2452

Spokane (509) 327-4747  
Portland (503) 342-4200

Date 11/25/2019  
Page 1 of 1

Transportation Time  
Accelerated

| Project Name: <u>Midway Transit Authority</u> |      | Project No.: <u>817001.00.012</u>        |        | Testing Parameters                                                                 |                                                                                            |
|-----------------------------------------------|------|------------------------------------------|--------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Project Location/Route: <u>Shelton, WA</u>    |      |                                          |        | Special Handling Requirements:                                                     |                                                                                            |
| Sampler's Name: <u>Katie Gungite</u>          |      |                                          |        | Shipping Method:                                                                   |                                                                                            |
| Project Contact: <u>Sarah Fees</u>            |      |                                          |        | Stored on Ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                                                                            |
| Send Results To: <u>D. Ingerson, S. Fees</u>  |      |                                          |        | Observations/Comments:                                                             |                                                                                            |
| Sample ID                                     | Date | Time                                     | Matrix | No. of Containers                                                                  |                                                                                            |
| WTA-B01(1-3)-20190625                         |      |                                          | Soil   | 3                                                                                  |                                                                                            |
| WTA-B02(1-3)-20190625                         |      |                                          | Ag     | 3                                                                                  |                                                                                            |
| WTA-B03(1-3)-20190625                         |      | 9:15                                     | Soil   | 3                                                                                  |                                                                                            |
| WTA-B04(1-3)-20190625                         |      | 10:00                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B05(1-3)-20190625                         |      | 10:30                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B06(1-3)-20190625                         |      | 11:04                                    | Ag     | 3                                                                                  |                                                                                            |
| WTA-B07(1-3)-20190625                         |      | 11:45                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B08(1-3)-20190625                         |      | 12:35                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B09(1-3)-20190625                         |      | 13:00                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B10(1-3)-20190625                         |      | 13:15                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B11(1-3)-20190625                         |      | 14:00                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B12(1-3)-20190625                         |      | 14:35                                    | Soil   | 3                                                                                  |                                                                                            |
| WTA-B13(1-3)-20190625                         |      | 14:45                                    | Soil   | 3                                                                                  |                                                                                            |
|                                               |      |                                          |        |                                                                                    | Align water samples to settle, collect aliquot from clear portion <input type="checkbox"/> |
|                                               |      |                                          |        |                                                                                    | WATPH-20 - Acid wash cleanup <input type="checkbox"/>                                      |
|                                               |      |                                          |        |                                                                                    | Glass gel cleanup <input type="checkbox"/>                                                 |
|                                               |      |                                          |        |                                                                                    | <input checked="" type="checkbox"/> Dissolved metal samples were field filtered            |
|                                               |      |                                          |        |                                                                                    | Other:                                                                                     |
|                                               |      |                                          |        |                                                                                    | * Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEP)    |
| Relinquished by: <u>Katie Gungite</u>         |      | Received by: <u>[Signature]</u>          |        | Relinquished by: <u>[Signature]</u>                                                |                                                                                            |
| Signature: <u>[Signature]</u>                 |      | Signature: <u>[Signature]</u>            |        | Signature: <u>[Signature]</u>                                                      |                                                                                            |
| Printed Name: <u>Katie Gungite</u>            |      | Printed Name: <u>[Signature]</u>         |        | Printed Name: <u>[Signature]</u>                                                   |                                                                                            |
| Company: <u>Landam Associates</u>             |      | Company: <u>[Signature]</u>              |        | Company: <u>[Signature]</u>                                                        |                                                                                            |
| Date: <u>11/25/19</u> Time: <u>16:55</u>      |      | Date: <u>11/25/19</u> Time: <u>16:55</u> |        | Date: <u>11/25/19</u> Time: <u>16:55</u>                                           |                                                                                            |





# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/25/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Moson Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To D. Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐  
- Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

Other

\* Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEF) 6/26/19

| Sample I.D.                 | Date    | Time  | Matrix | No. of Containers |
|-----------------------------|---------|-------|--------|-------------------|
| Trip Blank 1 - 20190625     | ---     | ---   | Soil   | 3                 |
| Trip Blank 2 - 20190625     | ---     | ---   | Ag     | 6                 |
| MTA-B03(7.5-10.5)-20190625  | 6/25/19 | 9:15  | Soil   | 5                 |
| MTA-B06(0-2.5)-20190625     |         | 10:00 | Soil   | 5                 |
| MTA-B09(7.5-8.5)-20190625   |         | 10:20 | Soil   | 5                 |
| MTA-B08-14-20190625         |         | 11:09 | Ag     | 15                |
| MTA-B03(0-3)-20190625       |         | 11:45 | Soil   | 5                 |
| MTA-B06(7.5-8.5)-20190625   |         | 12:35 | Soil   | 5                 |
| MTA-B05(0-2.4)-20190625     |         | 13:00 | Soil   | 5                 |
| MTA-B05(8-9)-20190625       |         | 13:15 | Soil   | 5                 |
| MTA-B04(10.5-11.5)-20190625 |         | 14:00 | Soil   | 5                 |
| MTA-B01(0-3)-20190625       |         | 14:35 | Soil   | 5                 |
| MTA-B01(7.3-8.3)-20190625   |         | 14:45 | Soil   | 5                 |

Relinquished by

Signature Katie Gauglitz

Printed Name Katie Gauglitz

Company Landau Associates

Date 6/25/2019 Time 16:55

Received by

Signature [Signature]

Printed Name Blair Shipley

Company TACSEA

Date 6/25/19 Time 16:55

Relinquished by

Signature

Printed Name

Company

Date Time

Received by

Signature

Printed Name

Company

Date Time

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2018

## COOLER RECEIPT FORM



580-87175 Chain of Custody

Cooler Received/Opened On 6/28/2019 @ 9:55

Time Samples Removed From Cooler \_\_\_\_\_ Time Samples Placed In Storage \_\_\_\_\_ (2 Hour Window)

1. Tracking # 0623 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? 1 side YES...NO...NA

If yes, how many and where: \_\_\_\_\_

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) \_\_\_\_\_

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # KD

I certify that I unloaded the cooler and answered questions 7-14 (initial) \_\_\_\_\_

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) \_\_\_\_\_

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

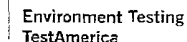
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) \_\_\_\_\_

I certify that I attached a label with the unique LIMS number to each container (initial) \_\_\_\_\_

21. Were there Non-Conformance issues at login? YES...NO...# Was a NCM generated? YES...NO...#

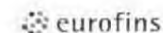
Loc: 580  
87175

Ver: 01/16/2019



**eurofins** | Environment Testing  
TestAmerica

Ver: 01/16/2019



Environment Testing  
TestAmerica

[illegible]



Page 14 of 65



## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87175-1

**Login Number: 87175**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Vallelunga, Diana L**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87175-1

**Login Number: 87175**

**List Number: 3**

**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**

**List Creation: 06/28/19 02:06 PM**

| Question                                                                                 | Answer | Comment                                                 |
|------------------------------------------------------------------------------------------|--------|---------------------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.                                        | True   | 496969                                                  |
| Sample custody seals, if present, are intact.                                            | N/A    |                                                         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                                         |
| Samples were received on ice.                                                            | True   |                                                         |
| Cooler Temperature is acceptable.                                                        | True   | 2.9                                                     |
| Cooler Temperature is recorded.                                                          | True   |                                                         |
| COC is present.                                                                          | True   |                                                         |
| COC is filled out in ink and legible.                                                    | True   |                                                         |
| COC is filled out with all pertinent information.                                        | True   |                                                         |
| Is the Field Sampler's name present on COC?                                              | N/A    | Not listed on COC                                       |
| There are no discrepancies between the containers received and the COC.                  | True   |                                                         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                                         |
| Sample containers have legible labels.                                                   | True   |                                                         |
| Containers are not broken or leaking.                                                    | True   |                                                         |
| Sample collection date/times are provided.                                               | True   |                                                         |
| Appropriate sample containers are used.                                                  | True   |                                                         |
| Sample bottles are completely filled.                                                    | True   |                                                         |
| Sample Preservation Verified.                                                            | N/A    |                                                         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                                         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                                         |
| Multiphasic samples are not present.                                                     | True   |                                                         |
| Samples do not require splitting or compositing.                                         | True   |                                                         |
| Residual Chlorine Checked.                                                               | N/A    | No analysis requiring residual chlorine check assigned. |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: TripBlank2-20190625

Date Collected: 06/25/19 00:01

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-2

Matrix: Water

| Analyte                 | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:08 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:08 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:08 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 06/28/19 01:08 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 01:08 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 01:08 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:08 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 80 - 120 |          | 06/28/19 01:08 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |          | 06/28/19 01:08 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 06/28/19 01:08 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 |          | 06/28/19 01:08 | 1       |
| Trifluorotoluene (Surr)      | 99        |           | 80 - 120 |          | 06/28/19 01:08 | 1       |

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte                 | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 06:53 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 06:53 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 06:53 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 06/28/19 06:53 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 06:53 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 06:53 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 06:53 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 80 - 120 |          | 06/28/19 06:53 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 06/28/19 06:53 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 06/28/19 06:53 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 80 - 120 |          | 06/28/19 06:53 | 1       |
| Trifluorotoluene (Surr)      | 101       |           | 80 - 120 |          | 06/28/19 06:53 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: TripBlank1-20190625

Date Collected: 06/25/19 00:01

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-1

Matrix: Solid

| Analyte                 | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 1.0 | 1.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Benzene                 | ND     |           | 2.0 | 2.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Ethylbenzene            | ND     |           | 2.0 | 2.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Ethylene Dibromide      | ND     |           | 1.0 | 1.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Methyl tert-butyl ether | ND     |           | 2.0 | 2.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 10  | 10  | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| o-Xylene                | ND     |           | 5.0 | 5.0 | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Toluene                 | ND     |           | 10  | 10  | ug/Kg |   | 06/25/19 17:00 | 06/27/19 19:37 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 80 - 121 | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 19:37 | 1       |
| Trifluorotoluene (Surr)      | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 19:37 | 1       |

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.96 | 0.96 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Benzene                 | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Ethylbenzene            | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Ethylene Dibromide      | ND     |           | 0.96 | 0.96 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 9.6  | 9.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| o-Xylene                | ND     |           | 4.8  | 4.8  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Toluene                 | ND     |           | 9.6  | 9.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 21:41 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 117       |           | 80 - 121 | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 21:41 | 1       |
| Trifluorotoluene (Surr)      | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 21:41 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.93 | 0.93 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Benzene                 | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Ethylbenzene            | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Ethylene Dibromide      | ND     |           | 0.93 | 0.93 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.9  | 1.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 9.3  | 9.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| o-Xylene                | ND     |           | 4.6  | 4.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Toluene                 | ND     |           | 9.3  | 9.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:05 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 127       | X         | 80 - 121 | 06/25/19 17:00 | 06/27/19 22:05 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Dibromofluoromethane (Surr) | 113       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Toluene-d8 (Surr)           | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:05 | 1       |
| Trifluorotoluene (Surr)     | 95        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:05 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.86 | 0.86 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Benzene                 | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Ethylbenzene            | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Ethylene Dibromide      | ND     |           | 0.86 | 0.86 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.6  | 8.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| o-Xylene                | ND     |           | 4.3  | 4.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Toluene                 | ND     |           | 8.6  | 8.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:30 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 133       | X         | 80 - 121 | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Dibromofluoromethane (Surr)  | 115       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:30 | 1       |
| Trifluorotoluene (Surr)      | 96        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:30 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.85 | 0.85 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Benzene                 | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Ethylbenzene            | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Ethylene Dibromide      | ND     |           | 0.85 | 0.85 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.5  | 8.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| o-Xylene                | ND     |           | 4.3  | 4.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Toluene                 | ND     |           | 8.5  | 8.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 22:55 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 135       | X         | 80 - 121 | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Dibromofluoromethane (Surr)  | 117       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:55 | 1       |
| Trifluorotoluene (Surr)      | 95        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 22:55 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte            | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane | ND     |           | 0.86 | 0.86 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Benzene                 | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Ethylbenzene            | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Ethylene Dibromide      | ND     |           | 0.86 | 0.86 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.6  | 8.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| o-Xylene                | ND     |           | 4.3  | 4.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Toluene                 | ND     |           | 8.6  | 8.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 127       | X         | 80 - 121 | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:20 | 1       |
| Trifluorotoluene (Surr)      | 102       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:20 | 1       |

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.83 | 0.83 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Benzene                 | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Ethylbenzene            | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Ethylene Dibromide      | ND     |           | 0.83 | 0.83 | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.3  | 8.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| o-Xylene                | ND     |           | 4.1  | 4.1  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Toluene                 | ND     |           | 8.3  | 8.3  | ug/Kg | ☼ | 06/25/19 17:00 | 06/27/19 23:44 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 129       | X         | 80 - 121 | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:44 | 1       |
| Trifluorotoluene (Surr)      | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/27/19 23:44 | 1       |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.85 | 0.85 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Benzene                 | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Ethylbenzene            | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Ethylene Dibromide      | ND     |           | 0.85 | 0.85 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.7  | 1.7  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.5  | 8.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| o-Xylene                | ND     |           | 4.2  | 4.2  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Toluene                 | ND     |           | 8.5  | 8.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:09 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 130       | X         | 80 - 121 | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:09 | 1       |

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Dibromofluoromethane (Surr) | 115       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Toluene-d8 (Surr)           | 102       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:09 | 1       |
| Trifluorotoluene (Surr)     | 97        |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:09 | 1       |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.89 | 0.89 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Benzene                 | ND     |           | 1.8  | 1.8  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Ethylbenzene            | ND     |           | 1.8  | 1.8  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Ethylene Dibromide      | ND     |           | 0.89 | 0.89 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.8  | 1.8  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 8.9  | 8.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| o-Xylene                | ND     |           | 4.5  | 4.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Toluene                 | ND     |           | 8.9  | 8.9  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:33 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 135       | X         | 80 - 121 | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Dibromofluoromethane (Surr)  | 117       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:33 | 1       |
| Trifluorotoluene (Surr)      | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:33 | 1       |

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte                 | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.76 | 0.76 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Benzene                 | ND     |           | 1.5  | 1.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Ethylbenzene            | ND     |           | 1.5  | 1.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Ethylene Dibromide      | ND     |           | 0.76 | 0.76 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Methyl tert-butyl ether | ND     |           | 1.5  | 1.5  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 7.6  | 7.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| o-Xylene                | ND     |           | 3.8  | 3.8  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Toluene                 | ND     |           | 7.6  | 7.6  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 00:58 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 142       | X         | 80 - 121 | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Dibromofluoromethane (Surr)  | 112       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:58 | 1       |
| Trifluorotoluene (Surr)      | 94        |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 00:58 | 1       |

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Date Collected: 06/25/19 14:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-13

Matrix: Solid

Percent Solids: 99.3

| Analyte            | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane | ND     |           | 1.2 | 1.2 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Benzene            | ND     |           | 2.4 | 2.4 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Date Collected: 06/25/19 14:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-13

Matrix: Solid

Percent Solids: 99.3

| Analyte                 | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Ethylbenzene            | ND     |           | 2.4 | 2.4 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Ethylene Dibromide      | ND     |           | 1.2 | 1.2 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Methyl tert-butyl ether | ND     |           | 2.4 | 2.4 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 12  | 12  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| o-Xylene                | ND     |           | 6.0 | 6.0 | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Toluene                 | ND     |           | 12  | 12  | ug/Kg | ☼ | 06/25/19 17:00 | 06/28/19 01:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 80 - 121 | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 01:23 | 1       |
| Trifluorotoluene (Surr)      | 107       |           | 80 - 120 | 06/25/19 17:00 | 06/28/19 01:23 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 16:58 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 103       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| Nitrobenzene-d5         | 82        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 16:58 | 1       |
| 2-Fluorobiphenyl (Surr) | 87        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 16:58 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 21     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Chrysene               | 32     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Benzo[b]fluoranthene   | 29     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Benzo[a]pyrene         | 25     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Indeno[1,2,3-cd]pyrene | 13     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:24 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 107       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| Nitrobenzene-d5         | 87        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 17:24 | 1       |
| 2-Fluorobiphenyl (Surr) | 93        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 17:24 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Chrysene               | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Benzo[a]pyrene         | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 17:50 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 105       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| Nitrobenzene-d5         | 82        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 17:50 | 1       |
| 2-Fluorobiphenyl (Surr) | 88        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 17:50 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte                | Result | Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Chrysene               | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/02/19 23:44 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 87        |           | 51 - 121 | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| Nitrobenzene-d5         | 71        |           | 36 - 126 | 07/02/19 10:14 | 07/02/19 23:44 | 1       |
| 2-Fluorobiphenyl (Surr) | 73        |           | 44 - 120 | 07/02/19 10:14 | 07/02/19 23:44 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 17     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Chrysene               | 27     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Benzo[b]fluoranthene   | 34     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Benzo[k]fluoranthene   | 13     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Benzo[a]pyrene         | 21     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Indeno[1,2,3-cd]pyrene | 15     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:17 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 109       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| Nitrobenzene-d5         | 87        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 18:17 | 1       |
| 2-Fluorobiphenyl (Surr) | 96        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 18:17 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 18:43 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 105       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| Nitrobenzene-d5         | 81        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 18:43 | 1       |
| 2-Fluorobiphenyl (Surr) | 91        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 18:43 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Chrysene               | 14     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Benzo[b]fluoranthene   | 14     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:09 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 100       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| Nitrobenzene-d5         | 74        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 19:09 | 1       |
| 2-Fluorobiphenyl (Surr) | 79        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 19:09 | 1       |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Chrysene               | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Benzo[a]pyrene         | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 19:36 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 103       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| Nitrobenzene-d5         | 82        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 19:36 | 1       |
| 2-Fluorobiphenyl (Surr) | 89        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 19:36 | 1       |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:02 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 98        |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| Nitrobenzene-d5         | 78        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 20:02 | 1       |
| 2-Fluorobiphenyl (Surr) | 85        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 20:02 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Chrysene               | 17     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Benzo[b]fluoranthene   | 23     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Benzo[a]pyrene         | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 9.9 | 9.9 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:28 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 101       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| Nitrobenzene-d5         | 80        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 20:28 | 1       |
| 2-Fluorobiphenyl (Surr) | 90        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 20:28 | 1       |

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Date Collected: 06/25/19 14:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-13

Matrix: Solid

Percent Solids: 99.3

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/02/19 11:58 | 07/02/19 20:55 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 102       |           | 61 - 136 | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| Nitrobenzene-d5         | 79        |           | 31 - 120 | 07/02/19 11:58 | 07/02/19 20:55 | 1       |
| 2-Fluorobiphenyl (Surr) | 86        |           | 46 - 120 | 07/02/19 11:58 | 07/02/19 20:55 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: TripBlank1-20190625**

**Date Collected: 06/25/19 00:01**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-1**

**Matrix: Solid**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.0      | 5.0 | mg/Kg | — | 07/02/19 08:50 | 07/02/19 13:35 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 93        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 13:35 | 1       |

**Client Sample ID: TripBlank2-20190625**

**Date Collected: 06/25/19 00:01**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-2**

**Matrix: Water**

| Analyte                        | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 0.25     | 0.25 | mg/L | — |          | 06/27/19 16:13 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 98        |           | 50 - 150 |      |      |   |          | 06/27/19 16:13 | 1       |
| Trifluorotoluene (Surr)        | 92        |           | 50 - 150 |      |      |   |          | 06/27/19 16:13 | 1       |

**Client Sample ID: MTA-B03(7.-10.5)-20190625**

**Date Collected: 06/25/19 09:15**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-3**

**Matrix: Solid**

**Percent Solids: 97.7**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.7      | 4.7 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 16:16 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 106       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 16:16 | 1       |

**Client Sample ID: MTA-B08(0-2.5)-20190625**

**Date Collected: 06/25/19 10:00**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-4**

**Matrix: Solid**

**Percent Solids: 95.6**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.0      | 5.0 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 16:44 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 103       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 16:44 | 1       |

**Client Sample ID: MTA-B08(7.5-8.5)-20190625**

**Date Collected: 06/25/19 10:20**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-5**

**Matrix: Solid**

**Percent Solids: 99.4**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.3      | 4.3 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 17:11 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 96        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 17:11 | 1       |

**Client Sample ID: MTA-B08-14-20190625**

**Date Collected: 06/25/19 11:09**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-6**

**Matrix: Water**

| Analyte                     | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline                    | ND        |           | 0.25     | 0.25 | mg/L | — |          | 06/28/19 20:25 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 50 - 150 |      |      |   |          | 06/28/19 20:25 | 1       |
| Trifluorotoluene (Surr)     | 111       |           | 50 - 150 |      |      |   |          | 06/28/19 20:25 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: MTA-B03(0-3)-20190625**

**Date Collected: 06/25/19 11:45**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-7**

**Matrix: Solid**

**Percent Solids: 97.1**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.8      | 4.8 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 17:38 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 91        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 17:38 | 1       |

**Client Sample ID: MTA-B06(7.5-8.5)-20190625**

**Date Collected: 06/25/19 12:35**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-8**

**Matrix: Solid**

**Percent Solids: 99.9**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.4      | 4.4 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 18:05 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 97        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 18:05 | 1       |

**Client Sample ID: MTA-B05(0-2.4)-20190625**

**Date Collected: 06/25/19 13:00**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-9**

**Matrix: Solid**

**Percent Solids: 99.0**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.9      | 4.9 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 18:32 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 99        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 18:32 | 1       |

**Client Sample ID: MTA-B05(8-9)-20190625**

**Date Collected: 06/25/19 13:15**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-10**

**Matrix: Solid**

**Percent Solids: 99.6**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.2      | 4.2 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 18:59 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 93        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 18:59 | 1       |

**Client Sample ID: MTA-B04(10.5-11.5)-20190625**

**Date Collected: 06/25/19 14:00**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-11**

**Matrix: Solid**

**Percent Solids: 98.5**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.2      | 4.2 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 19:54 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 101       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 19:54 | 1       |

**Client Sample ID: MTA-B01(0-3)-20190625**

**Date Collected: 06/25/19 14:35**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-12**

**Matrix: Solid**

**Percent Solids: 98.5**

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.5      | 4.5 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 20:21 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 100       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 20:21 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Date Collected: 06/25/19 14:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-13

Matrix: Solid

Percent Solids: 99.3

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 4.4      | 4.4 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 20:48 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 99        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 20:48 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8011 - EDB and DBCP in Water by Microextraction

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte            | Result    | Qualifier | RL       | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND        |           | 0.0099   | 0.0099 | ug/L |   | 07/09/19 14:57 | 07/10/19 19:26 | 1       |
| Surrogate          | %Recovery | Qualifier | Limits   |        |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dibromopropane | 94        |           | 60 - 140 |        |      |   | 07/09/19 14:57 | 07/10/19 19:26 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1221 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1232 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1242 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1248 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1254 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| PCB-1260 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 15:54 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 85        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 15:54 | 1       |
| DCB Decachlorobiphenyl (Surr) | 81        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 15:54 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1221 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1232 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1242 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1248 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1254 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| PCB-1260 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 16:15 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 76        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 16:15 | 1       |
| DCB Decachlorobiphenyl (Surr) | 63        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 16:15 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1221 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1232 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1242 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1248 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1254 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| PCB-1260 | ND     |           | 9.8 | 9.8 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:16 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 80        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 17:16 | 1       |
| DCB Decachlorobiphenyl (Surr) | 65        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 17:16 | 1       |

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.10 | 0.064 | ug/L | — | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| PCB-1221 | ND     |           | 0.10 | 0.064 | ug/L | — | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| PCB-1232 | ND     |           | 0.10 | 0.064 | ug/L | — | 07/11/19 10:34 | 07/11/19 14:47 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1242 | ND     |           | 0.10 | 0.064 | ug/L |   | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| PCB-1248 | ND     |           | 0.10 | 0.064 | ug/L |   | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| PCB-1254 | ND     |           | 0.10 | 0.064 | ug/L |   | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| PCB-1260 | ND     |           | 0.10 | 0.045 | ug/L |   | 07/11/19 10:34 | 07/11/19 14:47 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 68        |           | 20 - 126 | 07/11/19 10:34 | 07/11/19 14:47 | 1       |
| DCB Decachlorobiphenyl (Surr) | 76        |           | 23 - 138 | 07/11/19 10:34 | 07/11/19 14:47 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1221 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1232 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1242 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1248 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1254 | 21     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| PCB-1260 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:37 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 87        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 17:37 | 1       |
| DCB Decachlorobiphenyl (Surr) | 85        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 17:37 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1221 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1232 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1242 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1248 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1254 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| PCB-1260 | ND     |           | 9.7 | 9.7 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 17:57 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 70        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 17:57 | 1       |
| DCB Decachlorobiphenyl (Surr) | 72        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 17:57 | 1       |

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |
| PCB-1221 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |
| PCB-1232 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |
| PCB-1242 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |
| PCB-1248 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |
| PCB-1254 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 18:18 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte                       | Result           | Qualifier        | RL            | RL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|----|-------|---|-----------------|-----------------|----------------|
| PCB-1260                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:18  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |    |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Tetrachloro-m-xylene          | 86               |                  | 31 - 142      |    |       |   | 07/10/19 09:18  | 07/10/19 18:18  | 1              |
| DCB Decachlorobiphenyl (Surr) | 75               |                  | 20 - 150      |    |       |   | 07/10/19 09:18  | 07/10/19 18:18  | 1              |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte                       | Result           | Qualifier        | RL            | RL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1221                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1232                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1242                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1248                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1254                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| PCB-1260                      | ND               |                  | 9.6           | 9.6 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Tetrachloro-m-xylene          | 85               |                  | 31 - 142      |     |       |   | 07/10/19 09:18  | 07/10/19 18:38  | 1              |
| DCB Decachlorobiphenyl (Surr) | 79               |                  | 20 - 150      |     |       |   | 07/10/19 09:18  | 07/10/19 18:38  | 1              |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte                       | Result           | Qualifier        | RL            | RL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|----|-------|---|-----------------|-----------------|----------------|
| PCB-1016                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1221                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1232                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1242                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1248                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1254                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| PCB-1260                      | ND               |                  | 10            | 10 | ug/Kg | ☼ | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |    |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Tetrachloro-m-xylene          | 88               |                  | 31 - 142      |    |       |   | 07/10/19 09:18  | 07/10/19 18:59  | 1              |
| DCB Decachlorobiphenyl (Surr) | 87               |                  | 20 - 150      |    |       |   | 07/10/19 09:18  | 07/10/19 18:59  | 1              |

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1221 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1232 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1242 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1248 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1254 | 10     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| PCB-1260 | ND     |           | 9.6 | 9.6 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:19 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 95        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 19:19 | 1       |
| DCB Decachlorobiphenyl (Surr) | 93        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 19:19 | 1       |

**Client Sample ID: MTA-B01(7.3-8.3)-20190625**

**Date Collected: 06/25/19 14:45**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-13**

**Matrix: Solid**

**Percent Solids: 99.3**

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1221 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1232 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1242 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1248 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1254 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| PCB-1260 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 19:40 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 85        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 19:40 | 1       |
| DCB Decachlorobiphenyl (Surr) | 78        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 19:40 | 1       |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 10       | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:08 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 25       | 25 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:08 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 75        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 01:08 | 1       |
| <i>n</i> -Triacontane-d62                  | 71        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 01:08 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | 87        |           | 10       | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:28 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | 480       |           | 26       | 26 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:28 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 81        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 01:28 | 1       |
| <i>n</i> -Triacontane-d62                  | 91        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 01:28 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte                                    | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 9.9      | 9.9 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:48 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 25       | 25  | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 01:48 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 80        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 01:48 | 1       |
| <i>n</i> -Triacontane-d62                  | 83        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 01:48 | 1       |

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte                                    | Result    | Qualifier | RL       | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 0.24     | 0.24 | mg/L | — | 07/09/19 15:19 | 07/10/19 11:24 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 0.40     | 0.40 | mg/L | — | 07/09/19 15:19 | 07/10/19 11:24 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 91        |           | 50 - 150 |      |      |   | 07/09/19 15:19 | 07/10/19 11:24 | 1       |
| <i>n</i> -Triacontane-d62                  | 86        |           | 50 - 150 |      |      |   | 07/09/19 15:19 | 07/10/19 11:24 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte                                  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25) | 13     |           | 10 | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 02:08 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte                                 | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Residual Range Organics (RRO) (C25-C36) | 71        |           | 25       | 25 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 02:08 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                     | 86        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 02:08 | 1       |
| <i>n</i> -Triacontane-d62               | 89        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 02:08 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte                                 | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND        |           | 9.8      | 9.8 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 02:47 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND        |           | 25       | 25  | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 02:47 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                     | 81        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 02:47 | 1       |
| <i>n</i> -Triacontane-d62               | 87        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 02:47 | 1       |

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte                                 | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND        |           | 9.8      | 9.8 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 03:07 | 1       |
| Residual Range Organics (RRO) (C25-C36) | 35        |           | 25       | 25  | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 03:07 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                     | 96        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 03:07 | 1       |
| <i>n</i> -Triacontane-d62               | 100       |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 03:07 | 1       |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte                                 | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND        |           | 9.9      | 9.9 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 03:27 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND        |           | 25       | 25  | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 03:27 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                     | 73        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 03:27 | 1       |
| <i>n</i> -Triacontane-d62               | 81        |           | 50 - 150 |     |       |   | 07/09/19 10:00 | 07/10/19 03:27 | 1       |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte                                 | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND     |           | 9.9 | 9.9 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:07 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND     |           | 25  | 25  | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:07 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

| Surrogate                 | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o</i> -Terphenyl       | 73        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:07 | 1       |
| <i>n</i> -Triacontane-d62 | 77        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:07 | 1       |

**Client Sample ID: MTA-B01(0-3)-20190625**

**Date Collected: 06/25/19 14:35**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-12**

**Matrix: Solid**

**Percent Solids: 98.5**

| Analyte                                 | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | 10     |           | 10 | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:26 | 1       |
| Residual Range Organics (RRO) (C25-C36) | 69     |           | 25 | 25 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:26 | 1       |

| Surrogate                 | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o</i> -Terphenyl       | 89        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:26 | 1       |
| <i>n</i> -Triacontane-d62 | 93        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:26 | 1       |

**Client Sample ID: MTA-B01(7.3-8.3)-20190625**

**Date Collected: 06/25/19 14:45**

**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-13**

**Matrix: Solid**

**Percent Solids: 99.3**

| Analyte                                 | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND     |           | 10 | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:46 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND     |           | 25 | 25 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 04:46 | 1       |

| Surrogate                 | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o</i> -Terphenyl       | 80        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:46 | 1       |
| <i>n</i> -Triacontane-d62 | 76        |           | 50 - 150 | 07/09/19 10:00 | 07/10/19 04:46 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 6010C - Metals (ICP)

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.3  | 2.3  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Barium   | 22     |           | 0.38 | 0.38 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Cadmium  | 0.76   |           | 0.76 | 0.76 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Chromium | 33     |           | 0.99 | 0.99 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Lead     | 2.2    |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Selenium | ND     |           | 3.8  | 3.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |
| Silver   | ND     |           | 1.9  | 1.9  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:56 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.2  | 2.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Barium   | 64     |           | 0.36 | 0.36 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Cadmium  | 0.79   |           | 0.72 | 0.72 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Chromium | 60     |           | 0.94 | 0.94 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Lead     | 100    |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Selenium | ND     |           | 3.6  | 3.6  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:59 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.2  | 2.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Barium   | 21     |           | 0.37 | 0.37 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Cadmium  | ND     |           | 0.74 | 0.74 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Chromium | 41     |           | 0.97 | 0.97 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Lead     | ND     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Selenium | ND     |           | 3.7  | 3.7  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |
| Silver   | ND     |           | 1.9  | 1.9  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:03 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 2.8    |           | 2.1  | 2.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Barium   | 64     |           | 0.36 | 0.36 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Cadmium  | 0.86   |           | 0.71 | 0.71 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Chromium | 53     |           | 0.93 | 0.93 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Lead     | 81     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Selenium | ND     |           | 3.6  | 3.6  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:06 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic | 2.5    |           | 2.4  | 2.4  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |
| Barium  | 24     |           | 0.41 | 0.41 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cadmium  | ND     |           | 0.81 | 0.81 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |
| Chromium | 42     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |
| Lead     | ND     |           | 1.2  | 1.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:09 | 1       |

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.2  | 2.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Barium   | 36     |           | 0.36 | 0.36 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Cadmium  | 0.92   |           | 0.72 | 0.72 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Chromium | 57     |           | 0.94 | 0.94 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Lead     | 50     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Selenium | ND     |           | 3.6  | 3.6  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:22 | 1       |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 2.7    |           | 2.0  | 2.0  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Barium   | 21     |           | 0.34 | 0.34 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Cadmium  | ND     |           | 0.68 | 0.68 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Chromium | 35     |           | 0.88 | 0.88 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Lead     | 1.2    |           | 1.0  | 1.0  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Selenium | ND     |           | 3.4  | 3.4  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |
| Silver   | ND     |           | 1.7  | 1.7  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:26 | 1       |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.2  | 2.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Barium   | 22     |           | 0.36 | 0.36 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Cadmium  | 0.73   |           | 0.72 | 0.72 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Chromium | 39     |           | 0.94 | 0.94 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Lead     | ND     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Selenium | ND     |           | 3.6  | 3.6  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:29 | 1       |

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.2  | 2.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |
| Barium   | 45     |           | 0.37 | 0.37 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |
| Cadmium  | 0.83   |           | 0.74 | 0.74 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |
| Chromium | 56     |           | 0.96 | 0.96 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Lead     | 41     |           | 1.1 | 1.1 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |
| Selenium | ND     |           | 3.7 | 3.7 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |
| Silver   | ND     |           | 1.9 | 1.9 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:32 | 1       |

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Date Collected: 06/25/19 14:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-13

Matrix: Solid

Percent Solids: 99.3

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.1  | 2.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Barium   | 23     |           | 0.35 | 0.35 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Cadmium  | ND     |           | 0.71 | 0.71 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Chromium | 36     |           | 0.92 | 0.92 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Lead     | 1.1    |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Selenium | ND     |           | 3.5  | 3.5  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 11:35 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 6020A - Metals (ICP/MS) - Dissolved

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte  | Result | Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Barium   | ND     |           | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Cadmium  | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Chromium | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Lead     | ND     |           | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Selenium | ND     |           | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |
| Silver   | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:13 | 5       |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: MTA-B08-14-20190625

Date Collected: 06/25/19 11:09

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-6

Matrix: Water

| Analyte | Result | Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00030 | 0.00030 | mg/L |   | 07/08/19 08:39 | 07/08/19 17:00 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: MTA-B03(7.-10.5)-20190625

Date Collected: 06/25/19 09:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-3

Matrix: Solid

Percent Solids: 97.7

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.025 | 0.025 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:17 | 1       |

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.040  |           | 0.025 | 0.025 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:24 | 1       |

Client Sample ID: MTA-B08(7.5-8.5)-20190625

Date Collected: 06/25/19 10:20

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-5

Matrix: Solid

Percent Solids: 99.4

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.020 | 0.020 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:26 | 1       |

Client Sample ID: MTA-B03(0-3)-20190625

Date Collected: 06/25/19 11:45

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-7

Matrix: Solid

Percent Solids: 97.1

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.034  |           | 0.022 | 0.022 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:28 | 1       |

Client Sample ID: MTA-B06(7.5-8.5)-20190625

Date Collected: 06/25/19 12:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-8

Matrix: Solid

Percent Solids: 99.9

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.024 | 0.024 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:31 | 1       |

Client Sample ID: MTA-B05(0-2.4)-20190625

Date Collected: 06/25/19 13:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-9

Matrix: Solid

Percent Solids: 99.0

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.025 | 0.025 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:33 | 1       |

Client Sample ID: MTA-B05(8-9)-20190625

Date Collected: 06/25/19 13:15

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-10

Matrix: Solid

Percent Solids: 99.6

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.019 | 0.019 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:35 | 1       |

Client Sample ID: MTA-B04(10.5-11.5)-20190625

Date Collected: 06/25/19 14:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-11

Matrix: Solid

Percent Solids: 98.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.019 | 0.019 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:37 | 1       |

Client Sample ID: MTA-B01(0-3)-20190625

Date Collected: 06/25/19 14:35

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-12

Matrix: Solid

Percent Solids: 98.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.028  |           | 0.022 | 0.022 | mg/Kg | ☼ | 07/10/19 11:46 | 07/10/19 16:40 | 1       |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-304262/7

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB Result | MB Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Benzene                 | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Ethylbenzene            | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Methyl tert-butyl ether | ND        |              | 0.30 | 0.30 | ug/L |   |          | 06/27/19 23:48 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 0.50 | 0.50 | ug/L |   |          | 06/27/19 23:48 | 1       |
| o-Xylene                | ND        |              | 0.50 | 0.50 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Toluene                 | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Dibromofluoromethane (Surr)  | 105          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Toluene-d8 (Surr)            | 103          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Trifluorotoluene (Surr)      | 100          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |

Lab Sample ID: LCS 580-304262/4

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichloroethane      | 5.00        | 4.82       |               | ug/L |   | 96   | 74 - 130     |
| Benzene                 | 5.00        | 4.80       |               | ug/L |   | 96   | 73 - 133     |
| Ethylbenzene            | 5.00        | 4.62       |               | ug/L |   | 92   | 80 - 130     |
| Methyl tert-butyl ether | 5.00        | 5.06       |               | ug/L |   | 101  | 60 - 150     |
| m-Xylene & p-Xylene     | 5.00        | 4.66       |               | ug/L |   | 93   | 78 - 130     |
| o-Xylene                | 5.00        | 4.69       |               | ug/L |   | 94   | 80 - 139     |
| Toluene                 | 5.00        | 4.74       |               | ug/L |   | 95   | 80 - 126     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 99            |               | 80 - 120 |
| Toluene-d8 (Surr)            | 101           |               | 80 - 120 |
| Trifluorotoluene (Surr)      | 102           |               | 80 - 120 |

Lab Sample ID: LCSD 580-304262/5

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                 | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,2-Dichloroethane      | 5.00        | 4.97        |                | ug/L |   | 99   | 74 - 130     | 3   | 15        |
| Benzene                 | 5.00        | 4.95        |                | ug/L |   | 99   | 73 - 133     | 3   | 20        |
| Ethylbenzene            | 5.00        | 4.68        |                | ug/L |   | 94   | 80 - 130     | 1   | 20        |
| Methyl tert-butyl ether | 5.00        | 5.48        |                | ug/L |   | 110  | 60 - 150     | 8   | 25        |
| m-Xylene & p-Xylene     | 5.00        | 4.74        |                | ug/L |   | 95   | 78 - 130     | 2   | 20        |
| o-Xylene                | 5.00        | 4.73        |                | ug/L |   | 95   | 80 - 139     | 1   | 20        |
| Toluene                 | 5.00        | 4.80        |                | ug/L |   | 96   | 80 - 126     | 1   | 20        |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-304262/5

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Surrogate                    | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|------------------------------|-------------------|-------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 102               |                   | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100               |                   | 80 - 120 |
| Dibromofluoromethane (Surr)  | 100               |                   | 80 - 120 |
| Toluene-d8 (Surr)            | 99                |                   | 80 - 120 |
| Trifluorotoluene (Surr)      | 97                |                   | 80 - 120 |

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-304247/1-A

Matrix: Solid

Analysis Batch: 304251

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304247

| Analyte                 | MB<br>Result | MB<br>Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|-----------------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND           |                 | 1.0 | 1.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Benzene                 | ND           |                 | 2.0 | 2.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Ethylbenzene            | ND           |                 | 2.0 | 2.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Ethylene Dibromide      | ND           |                 | 1.0 | 1.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Methyl tert-butyl ether | ND           |                 | 2.0 | 2.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| m-Xylene & p-Xylene     | ND           |                 | 10  | 10  | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| o-Xylene                | ND           |                 | 5.0 | 5.0 | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Toluene                 | ND           |                 | 10  | 10  | ug/Kg |   | 06/27/19 16:57 | 06/27/19 18:47 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114             |                 | 80 - 121 | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 107             |                 | 80 - 120 | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Dibromofluoromethane (Surr)  | 114             |                 | 80 - 120 | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Toluene-d8 (Surr)            | 103             |                 | 80 - 120 | 06/27/19 16:57 | 06/27/19 18:47 | 1       |
| Trifluorotoluene (Surr)      | 107             |                 | 80 - 120 | 06/27/19 16:57 | 06/27/19 18:47 | 1       |

Lab Sample ID: LCS 580-304247/2-A

Matrix: Solid

Analysis Batch: 304251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304247

| Analyte                 | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | Limits   |
|-------------------------|----------------|---------------|------------------|-------|---|------|----------|
| 1,2-Dichloroethane      | 20.0           | 21.9          |                  | ug/Kg |   | 110  | 68 - 132 |
| Benzene                 | 20.0           | 20.0          |                  | ug/Kg |   | 100  | 72 - 135 |
| Ethylbenzene            | 20.0           | 20.1          |                  | ug/Kg |   | 100  | 80 - 135 |
| Ethylene Dibromide      | 20.0           | 20.7          |                  | ug/Kg |   | 103  | 77 - 123 |
| Methyl tert-butyl ether | 20.0           | 19.8          |                  | ug/Kg |   | 99   | 68 - 132 |
| m-Xylene & p-Xylene     | 20.0           | 19.8          |                  | ug/Kg |   | 99   | 80 - 132 |
| o-Xylene                | 20.0           | 19.8          |                  | ug/Kg |   | 99   | 80 - 125 |
| Toluene                 | 20.0           | 18.9          |                  | ug/Kg |   | 95   | 75 - 137 |

| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 109              |                  | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 98               |                  | 80 - 120 |
| Dibromofluoromethane (Surr)  | 105              |                  | 80 - 120 |
| Toluene-d8 (Surr)            | 98               |                  | 80 - 120 |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-304247/2-A

Matrix: Solid

Analysis Batch: 304251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304247

| Surrogate               | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-------------------------|------------------|------------------|----------|
| Trifluorotoluene (Surr) | 100              |                  | 80 - 120 |

Lab Sample ID: LCSD 580-304247/3-A

Matrix: Solid

Analysis Batch: 304251

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304247

| Analyte                 | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|-------------------------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| 1,2-Dichloroethane      | 20.0           | 22.6           |                   | ug/Kg |   | 113  | 68 - 132        | 3   | 17           |
| Benzene                 | 20.0           | 20.5           |                   | ug/Kg |   | 102  | 72 - 135        | 2   | 15           |
| Ethylbenzene            | 20.0           | 20.2           |                   | ug/Kg |   | 101  | 80 - 135        | 1   | 16           |
| Ethylene Dibromide      | 20.0           | 20.5           |                   | ug/Kg |   | 102  | 77 - 123        | 1   | 20           |
| Methyl tert-butyl ether | 20.0           | 22.9           |                   | ug/Kg |   | 115  | 68 - 132        | 14  | 25           |
| m-Xylene & p-Xylene     | 20.0           | 20.0           |                   | ug/Kg |   | 100  | 80 - 132        | 1   | 20           |
| o-Xylene                | 20.0           | 21.1           |                   | ug/Kg |   | 105  | 80 - 125        | 6   | 14           |
| Toluene                 | 20.0           | 18.9           |                   | ug/Kg |   | 95   | 75 - 137        | 0   | 20           |

| Surrogate                    | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|------------------------------|-------------------|-------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 110               |                   | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 100               |                   | 80 - 120 |
| Dibromofluoromethane (Surr)  | 113               |                   | 80 - 120 |
| Toluene-d8 (Surr)            | 99                |                   | 80 - 120 |
| Trifluorotoluene (Surr)      | 102               |                   | 80 - 120 |

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-22845/1-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | MB<br>Result | MB<br>Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Chrysene               | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Benzo[b]fluoranthene   | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Benzo[k]fluoranthene   | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Benzo[a]pyrene         | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Indeno[1,2,3-cd]pyrene | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Dibenz(a,h)anthracene  | ND           |                 | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |

| Surrogate               | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 114             |                 | 51 - 121 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Nitrobenzene-d5         | 102             |                 | 36 - 126 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| 2-Fluorobiphenyl (Surr) | 88              |                 | 44 - 120 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-22845/2-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzo[a]anthracene     | 1.60        | 1.33       |               | ug/L |   | 83   | 68 - 120     |
| Chrysene               | 1.60        | 1.36       |               | ug/L |   | 85   | 69 - 120     |
| Benzo[b]fluoranthene   | 1.60        | 1.23       |               | ug/L |   | 77   | 63 - 120     |
| Benzo[k]fluoranthene   | 1.60        | 1.44       |               | ug/L |   | 90   | 67 - 120     |
| Benzo[a]pyrene         | 1.60        | 1.31       |               | ug/L |   | 82   | 70 - 120     |
| Indeno[1,2,3-cd]pyrene | 1.60        | 1.28       |               | ug/L |   | 80   | 58 - 120     |
| Dibenz(a,h)anthracene  | 1.60        | 1.24       |               | ug/L |   | 78   | 58 - 120     |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| p-Terphenyl-d14         | 97            |               | 51 - 121 |
| Nitrobenzene-d5         | 91            |               | 36 - 126 |
| 2-Fluorobiphenyl (Surr) | 74            |               | 44 - 120 |

Lab Sample ID: LCSD 590-22845/3-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-------|
| Benzo[a]anthracene     | 1.60        | 1.31        |                | ug/L |   | 82   | 68 - 120     | 2   | 30    |
| Chrysene               | 1.60        | 1.33        |                | ug/L |   | 83   | 69 - 120     | 2   | 24    |
| Benzo[b]fluoranthene   | 1.60        | 1.17        |                | ug/L |   | 73   | 63 - 120     | 5   | 30    |
| Benzo[k]fluoranthene   | 1.60        | 1.40        |                | ug/L |   | 87   | 67 - 120     | 3   | 30    |
| Benzo[a]pyrene         | 1.60        | 1.26        |                | ug/L |   | 79   | 70 - 120     | 4   | 30    |
| Indeno[1,2,3-cd]pyrene | 1.60        | 1.22        |                | ug/L |   | 76   | 58 - 120     | 5   | 30    |
| Dibenz(a,h)anthracene  | 1.60        | 1.24        |                | ug/L |   | 77   | 58 - 120     | 0   | 30    |

| Surrogate               | LCSD %Recovery | LCSD Qualifier | Limits   |
|-------------------------|----------------|----------------|----------|
| p-Terphenyl-d14         | 88             |                | 51 - 121 |
| Nitrobenzene-d5         | 83             |                | 36 - 126 |
| 2-Fluorobiphenyl (Surr) | 68             |                | 44 - 120 |

Lab Sample ID: MB 590-22851/1-A

Matrix: Solid

Analysis Batch: 22842

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22851

| Analyte                | MB Result | MB Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Chrysene               | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Benzo[a]pyrene         | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 10 | 10 | ug/Kg |   | 07/02/19 11:58 | 07/02/19 13:54 | 1       |

| Surrogate       | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------------|--------------|----------|----------------|----------------|---------|
| p-Terphenyl-d14 | 106          |              | 61 - 136 | 07/02/19 11:58 | 07/02/19 13:54 | 1       |
| Nitrobenzene-d5 | 79           |              | 31 - 120 | 07/02/19 11:58 | 07/02/19 13:54 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-22851/1-A

Matrix: Solid

Analysis Batch: 22842

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22851

| Surrogate               | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 84              |                 | 46 - 120 | 07/02/19 11:58 | 07/02/19 13:54 | 1       |

Lab Sample ID: LCS 590-22851/2-A

Matrix: Solid

Analysis Batch: 22842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22851

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Benzo[a]anthracene     | 267            | 256           |                  | ug/Kg |   | 96   | 61 - 125        |
| Chrysene               | 267            | 254           |                  | ug/Kg |   | 95   | 57 - 127        |
| Benzo[b]fluoranthene   | 267            | 255           |                  | ug/Kg |   | 96   | 59 - 127        |
| Benzo[k]fluoranthene   | 267            | 256           |                  | ug/Kg |   | 96   | 63 - 127        |
| Benzo[a]pyrene         | 267            | 250           |                  | ug/Kg |   | 94   | 60 - 120        |
| Indeno[1,2,3-cd]pyrene | 267            | 255           |                  | ug/Kg |   | 96   | 55 - 128        |
| Dibenz(a,h)anthracene  | 267            | 255           |                  | ug/Kg |   | 96   | 60 - 128        |

| Surrogate               | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-------------------------|------------------|------------------|----------|
| p-Terphenyl-d14         | 108              |                  | 61 - 136 |
| Nitrobenzene-d5         | 88               |                  | 31 - 120 |
| 2-Fluorobiphenyl (Surr) | 92               |                  | 46 - 120 |

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-304165/6

Matrix: Water

Analysis Batch: 304165

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                        | MB<br>Result | MB<br>Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|--------------|-----------------|------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND           |                 | 0.25 | 0.25 | mg/L |   |          | 06/27/19 11:49 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91              |                 | 50 - 150 |          | 06/27/19 11:49 | 1       |
| Trifluorotoluene (Surr)     | 113             |                 | 50 - 150 |          | 06/27/19 11:49 | 1       |

Lab Sample ID: LCS 580-304165/7

Matrix: Water

Analysis Batch: 304165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|--------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Gasoline Range Organics C6-C12 | 1.00           | 0.819         |                  | mg/L |   | 82   | 79 - 120        |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 95               |                  | 50 - 150 |
| Trifluorotoluene (Surr)     | 116              |                  | 50 - 150 |

Eurofins TestAmerica, Seattle



# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-304165/8

Matrix: Water

Analysis Batch: 304165

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                        | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| Gasoline Range Organics C6-C12 | 1.00           | 0.888          |                | mg/L |   | 89   | 79 - 120     | 8   | 10        |
| Surrogate                      | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr)    | 103            |                | 50 - 150       |      |   |      |              |     |           |
| Trifluorotoluene (Surr)        | 110            |                | 50 - 150       |      |   |      |              |     |           |

Lab Sample ID: MB 580-304451/12

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result    | MB Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| Gasoline                    | ND           |              | 0.25     | 0.25 | mg/L |   |          | 06/28/19 14:07 | 1       |
| Surrogate                   | MB %Recovery | MB Qualifier | Limits   |      |      |   |          |                |         |
| 4-Bromofluorobenzene (Surr) | 101          |              | 50 - 150 |      |      |   |          |                |         |
| Trifluorotoluene (Surr)     | 115          |              | 50 - 150 |      |      |   |          |                |         |

Lab Sample ID: LCS 580-304451/13

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                             |           |           | Spike    | LCS    | LCS       |      |   |      | %Rec.    |  |  |
|-----------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|--|--|
| Analyte                     |           |           | Added    | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |
| Gasoline                    |           |           | 1.00     | 0.905  |           | mg/L | - | 90   | 79 - 120 |  |  |
| Surrogate                   | LCS       | LCS       |          |        |           |      |   |      |          |  |  |
|                             | %Recovery | Qualifier | Limits   |        |           |      |   |      |          |  |  |
| 4-Bromofluorobenzene (Surr) | 107       |           | 50 - 150 |        |           |      |   |      |          |  |  |
| Trifluorotoluene (Surr)     | 112       |           | 50 - 150 |        |           |      |   |      |          |  |  |

Lab Sample ID: LCSD 580-304451/14

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| Gasoline                    | 1.00           | 0.879          |                | mg/L |   | 88   | 79 - 120     | 3   | 10        |
| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr) | 107            |                | 50 - 150       |      |   |      |              |     |           |
| Trifluorotoluene (Surr)     | 111            |                | 50 - 150       |      |   |      |              |     |           |

Lab Sample ID: MB 580-304581/1-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304581

| Analyte                        | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |              | 5.0 | 5.0 | mg/Kg |   | 07/02/19 08:50 | 07/02/19 09:59 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 580-304581/1-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304581

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100             |                 | 50 - 150 | 07/02/19 08:50 | 07/02/19 09:59 | 1       |

Lab Sample ID: LCS 580-304581/2-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304581

|                             |           |           | Spike    | LCS    | LCS       |       |   |      | %Rec.    |  |  |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte                     |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Gasoline Range Organics     |           |           | 40.0     | 35.6   |           | mg/Kg | - | 89   | 80 - 120 |  |  |
| C6-C12                      |           |           |          |        |           |       |   |      |          |  |  |
| Surrogate                   | LCS       | LCS       |          |        |           |       |   |      |          |  |  |
|                             | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |  |
| 4-Bromofluorobenzene (Surr) | 108       |           | 50 - 150 |        |           |       |   |      |          |  |  |

Lab Sample ID: LCSD 580-304581/3-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304581

|                                   |                   |                   | Spike    | LCSD   | LCSD      |       |   |      | %Rec.    | RPD | RPD   |
|-----------------------------------|-------------------|-------------------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                           |                   |                   | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics<br>C6-C12 |                   |                   | 40.0     | 35.9   |           | mg/Kg | - | 90   | 80 - 120 | 1   | 10    |
| Surrogate                         | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 4-Bromofluorobenzene (Surr)       | 106               |                   | 50 - 150 |        |           |       |   |      |          |     |       |

## Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-305135/1-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | MB Result    | MB Qualifier | RL       | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------------|--------------|----------|-------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND           |              | 0.010    | 0.010 | ug/L | - | 07/09/19 14:57 | 07/10/19 17:47 | 1       |
| Surrogate          | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dibromopropane | 86           |              | 60 - 140 |       |      |   | 07/09/19 14:57 | 07/10/19 17:47 | 1       |

Lab Sample ID: LCS 580-305135/2-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305135

|                    |  |  |        |        |           |      |   |      |          |  |  |
|--------------------|--|--|--------|--------|-----------|------|---|------|----------|--|--|
|                    |  |  | Spike  | LCS    | LCS       |      |   |      | %Rec.    |  |  |
| Analyte            |  |  | Added  | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |
| Ethylene Dibromide |  |  | 0.0587 | 0.0627 |           | ug/L | - | 107  | 60 - 140 |  |  |
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Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 580-305135/3-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | Spike Added | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------|-------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| Ethylene Dibromide | 0.0578      | 0.0561         |                | ug/L |   | 97   | 60 - 140     | 11  | 20        |
| Surrogate          | %Recovery   | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| 1,2-Dibromopropane | 87          |                | 60 - 140       |      |   |      |              |     |           |

Lab Sample ID: LLCS 580-305135/28-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            |                |                | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |  |  |
|--------------------|----------------|----------------|-------------|-------------|----------------|------|---|------|--------------|--|--|
| Ethylene Dibromide |                |                | 0.0117      | ND          |                | ug/L | - | 85   | 60 - 140     |  |  |
| Surrogate          | LLCS %Recovery | LLCS Qualifier | Limits      |             |                |      |   |      |              |  |  |
| 1,2-Dibromopropane | 110            |                | 60 - 140    |             |                |      |   |      |              |  |  |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 590-22942/1-A

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22942

| Analyte                       | MB Result | MB Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|----------|----|-------|---|----------------|----------------|---------|
| PCB-1016                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1221                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1232                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1242                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1248                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1254                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1260                      | ND        |              | 10       | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| Surrogate                     | %Recovery | MB Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene          | 93        |              | 31 - 142 |    |       |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| DCB Decachlorobiphenyl (Surr) | 103       |              | 20 - 150 |    |       |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |

Lab Sample ID: LCS 590-22942/2-A

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22942

|                               |           |           | Spike    | LCS    | LCS       |       |   |      | %Rec.    |  |  |
|-------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte                       |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| PCB-1016                      |           |           | 66.7     | 65.1   |           | ug/Kg |   | 98   | 63 - 127 |  |  |
| PCB-1260                      |           |           | 66.7     | 67.1   |           | ug/Kg |   | 101  | 63 - 128 |  |  |
|                               |           |           | LCS      | LCS    |           |       |   |      |          |  |  |
| Surrogate                     | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |  |
| Tetrachloro-m-xylene          | 92        |           | 31 - 142 |        |           |       |   |      |          |  |  |
| DCB Decachlorobiphenyl (Surr) | 90        |           | 20 - 150 |        |           |       |   |      |          |  |  |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 580-87175-4 MS

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: MTA-B08(0-2.5)-20190625

Prep Type: Total/NA

Prep Batch: 22942

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| PCB-1016 | ND            |                  | 69.4        | 50.0      |              | ug/Kg | ☼ | 72   | 63 - 127     |
| PCB-1260 | ND            |                  | 69.4        | 49.9      |              | ug/Kg | ☼ | 72   | 63 - 128     |

| Surrogate                     | MS %Recovery | MS Qualifier | Limits   |
|-------------------------------|--------------|--------------|----------|
| Tetrachloro-m-xylene          | 76           |              | 31 - 142 |
| DCB Decachlorobiphenyl (Surr) | 68           |              | 20 - 150 |

Lab Sample ID: 580-87175-4 MSD

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: MTA-B08(0-2.5)-20190625

Prep Type: Total/NA

Prep Batch: 22942

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| PCB-1016 | ND            |                  | 67.8        | 48.1       |               | ug/Kg | ☼ | 71   | 63 - 127     | 4   | 17        |
| PCB-1260 | ND            |                  | 67.8        | 48.1       |               | ug/Kg | ☼ | 71   | 63 - 128     | 4   | 11        |

| Surrogate                     | MSD %Recovery | MSD Qualifier | Limits   |
|-------------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene          | 73            |               | 31 - 142 |
| DCB Decachlorobiphenyl (Surr) | 65            |               | 20 - 150 |

Lab Sample ID: MB 590-22976/1-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22976

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1221 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1232 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1242 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1248 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1254 | ND        |              | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1260 | ND        |              | 0.10 | 0.043 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |

| Surrogate                     | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 57           |              | 20 - 126 | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| DCB Decachlorobiphenyl (Surr) | 76           |              | 23 - 138 | 07/11/19 10:34 | 07/11/19 13:47 | 1       |

Lab Sample ID: LCS 590-22976/2-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22976

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| PCB-1016 | 1.60        | 1.30       |               | ug/L |   | 81   | 51 - 120     |
| PCB-1260 | 1.60        | 1.17       |               | ug/L |   | 73   | 42 - 120     |

| Surrogate                     | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene          | 58            |               | 20 - 126 |
| DCB Decachlorobiphenyl (Surr) | 87            |               | 23 - 138 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 590-22976/3-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22976

| Analyte                       | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| PCB-1016                      | 1.60           | 1.20           |                | ug/L |   | 75   | 51 - 120     | 8   | 20        |
| PCB-1260                      | 1.60           | 1.14           |                | ug/L |   | 71   | 42 - 120     | 2   | 28        |
| Surrogate                     | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| Tetrachloro-m-xylene          | 49             |                | 20 - 126       |      |   |      |              |     |           |
| DCB Decachlorobiphenyl (Surr) | 78             |                | 23 - 138       |      |   |      |              |     |           |

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-22922/1-A

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                 | MB Result    | MB Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------------|--------------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND           |              | 10       | 10 | mg/Kg |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND           |              | 25       | 25 | mg/Kg |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| Surrogate                               | MB %Recovery | MB Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                             | 85           |              | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| n-Triacontane-d62                       | 75           |              | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |

Lab Sample ID: LCS 590-22922/2-A

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                 | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|-----------------------------------------|---------------|---------------|---------------|-------|---|------|--------------|--|--|
| Diesel Range Organics (DRO) (C10-C25)   | 66.7          | 60.2          |               | mg/Kg |   | 90   | 50 - 150     |  |  |
| Residual Range Organics (RRO) (C25-C36) | 66.7          | 67.3          |               | mg/Kg |   | 101  | 50 - 150     |  |  |
| Surrogate                               | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |  |  |
| o-Terphenyl                             | 98            |               | 50 - 150      |       |   |      |              |  |  |
| n-Triacontane-d62                       | 99            |               | 50 - 150      |       |   |      |              |  |  |

Lab Sample ID: 580-87175-7 DU

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: MTA-B03(0-3)-20190625

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                 | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D |  | RPD | RPD Limit |
|-----------------------------------------|---------------|------------------|-----------|--------------|-------|---|--|-----|-----------|
| Diesel Range Organics (DRO) (C10-C25)   | 13            |                  | ND        |              | mg/Kg | ☼ |  | NC  | 40        |
| Residual Range Organics (RRO) (C25-C36) | 71            |                  | 60.0      |              | mg/Kg | ☼ |  | 17  | 40        |
| Surrogate                               | DU %Recovery  | DU Qualifier     | Limits    |              |       |   |  |     |           |
| o-Terphenyl                             | 82            |                  | 50 - 150  |              |       |   |  |     |           |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 580-87175-7 DU

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: MTA-B03(0-3)-20190625

Prep Type: Total/NA

Prep Batch: 22922

|                   | DU        | DU        |          |
|-------------------|-----------|-----------|----------|
| Surrogate         | %Recovery | Qualifier | Limits   |
| n-Triacontane-d62 | 84        |           | 50 - 150 |

Lab Sample ID: 580-87175-13 DU

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: MTA-B01(7.3-8.3)-20190625

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                 | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | Limit |
|-----------------------------------------|---------------|------------------|-----------|--------------|-------|---|-----|-------|
| Diesel Range Organics (DRO) (C10-C25)   | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 40    |
| Residual Range Organics (RRO) (C25-C36) | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 40    |

|                   | DU        | DU        |          |
|-------------------|-----------|-----------|----------|
| Surrogate         | %Recovery | Qualifier | Limits   |
| o-Terphenyl       | 88        |           | 50 - 150 |
| n-Triacontane-d62 | 86        |           | 50 - 150 |

Lab Sample ID: MB 590-22937/1-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22937

| Analyte                                 | MB Result | MB Qualifier | RL   | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND        |              | 0.24 | 0.24 | mg/L |   | 07/09/19 15:19 | 07/10/19 10:23 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND        |              | 0.40 | 0.40 | mg/L |   | 07/09/19 15:19 | 07/10/19 10:23 | 1       |

|                   | MB        | MB        |          |  |  |  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-----------|-----------|----------|--|--|--|----------------|----------------|---------|
| Surrogate         | %Recovery | Qualifier | Limits   |  |  |  |                |                |         |
| o-Terphenyl       | 81        |           | 50 - 150 |  |  |  | 07/09/19 15:19 | 07/10/19 10:23 | 1       |
| n-Triacontane-d62 | 80        |           | 50 - 150 |  |  |  | 07/09/19 15:19 | 07/10/19 10:23 | 1       |

Lab Sample ID: LCS 590-22937/2-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22937

| Analyte                                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Diesel Range Organics (DRO) (C10-C25)   | 1.60        | 1.10       |               | mg/L |   | 69   | 50 - 150     |
| Residual Range Organics (RRO) (C25-C36) | 1.60        | 1.49       |               | mg/L |   | 93   | 50 - 150     |

|                   | LCS       | LCS       |          |
|-------------------|-----------|-----------|----------|
| Surrogate         | %Recovery | Qualifier | Limits   |
| o-Terphenyl       | 91        |           | 50 - 150 |
| n-Triacontane-d62 | 101       |           | 50 - 150 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 590-22937/3-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22937

| Analyte                                 | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) (C10-C25)   | 1.60           | 1.23           |                | mg/L |   | 77   | 50 - 150     | 11  | 25        |
| Residual Range Organics (RRO) (C25-C36) | 1.60           | 1.59           |                | mg/L |   | 100  | 50 - 150     | 7   | 25        |
| Surrogate                               | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| o-Terphenyl                             | 98             |                | 50 - 150       |      |   |      |              |     |           |
| n-Triacontane-d62                       | 103            |                | 50 - 150       |      |   |      |              |     |           |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-304620/22-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | MB Result | MB Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 3.0  | 3.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Barium   | ND        |              | 0.50 | 0.50 | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Cadmium  | ND        |              | 1.0  | 1.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Chromium | ND        |              | 1.3  | 1.3  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Lead     | ND        |              | 1.5  | 1.5  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Selenium | ND        |              | 5.0  | 5.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Silver   | ND        |              | 2.5  | 2.5  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |

Lab Sample ID: LCS 580-304620/23-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|----------|-------------|------------|---------------|-------|---|------|--------------|--|--|
| Arsenic  | 50.0        | 50.4       |               | mg/Kg |   | 101  | 80 - 120     |  |  |
| Barium   | 50.0        | 51.9       |               | mg/Kg |   | 104  | 80 - 120     |  |  |
| Cadmium  | 50.0        | 51.4       |               | mg/Kg |   | 103  | 80 - 120     |  |  |
| Chromium | 50.0        | 54.9       |               | mg/Kg |   | 110  | 80 - 120     |  |  |
| Lead     | 50.0        | 50.7       |               | mg/Kg |   | 101  | 80 - 120     |  |  |
| Selenium | 50.0        | 51.0       |               | mg/Kg |   | 102  | 80 - 120     |  |  |
| Silver   | 50.0        | 52.4       |               | mg/Kg |   | 105  | 80 - 120     |  |  |

Lab Sample ID: LCSD 580-304620/24-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 50.0        | 49.7        |                | mg/Kg |   | 99   | 80 - 120     | 1   | 20        |
| Barium   | 50.0        | 50.6        |                | mg/Kg |   | 101  | 80 - 120     | 2   | 20        |
| Cadmium  | 50.0        | 50.5        |                | mg/Kg |   | 101  | 80 - 120     | 2   | 20        |
| Chromium | 50.0        | 53.8        |                | mg/Kg |   | 108  | 80 - 120     | 2   | 20        |
| Lead     | 50.0        | 49.9        |                | mg/Kg |   | 100  | 80 - 120     | 2   | 20        |
| Selenium | 50.0        | 50.1        |                | mg/Kg |   | 100  | 80 - 120     | 2   | 20        |
| Silver   | 50.0        | 50.6        |                | mg/Kg |   | 101  | 80 - 120     | 3   | 20        |

Eurofins TestAmerica, Seattle



# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-305019/16-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | MB Result | MB Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Barium   | ND        |              | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Cadmium  | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Chromium | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Lead     | ND        |              | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Selenium | ND        |              | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Silver   | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |

Lab Sample ID: LCS 580-305019/17-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic  | 1.00        | 1.01       |               | mg/L |   | 101  | 80 - 120     |
| Barium   | 1.00        | 1.03       |               | mg/L |   | 103  | 80 - 120     |
| Cadmium  | 1.00        | 1.02       |               | mg/L |   | 102  | 80 - 120     |
| Chromium | 1.00        | 0.989      |               | mg/L |   | 99   | 80 - 120     |
| Lead     | 1.00        | 1.01       |               | mg/L |   | 101  | 80 - 120     |
| Selenium | 1.00        | 1.02       |               | mg/L |   | 102  | 80 - 120     |
| Silver   | 1.00        | 0.991      |               | mg/L |   | 99   | 80 - 120     |

Lab Sample ID: LCSD 580-305019/18-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Arsenic  | 1.00        | 1.02        |                | mg/L |   | 102  | 80 - 120     | 1   | 20        |
| Barium   | 1.00        | 1.04        |                | mg/L |   | 104  | 80 - 120     | 1   | 20        |
| Cadmium  | 1.00        | 1.01        |                | mg/L |   | 101  | 80 - 120     | 1   | 20        |
| Chromium | 1.00        | 0.985       |                | mg/L |   | 99   | 80 - 120     | 0   | 20        |
| Lead     | 1.00        | 0.995       |                | mg/L |   | 99   | 80 - 120     | 1   | 20        |
| Selenium | 1.00        | 1.03        |                | mg/L |   | 103  | 80 - 120     | 1   | 20        |
| Silver   | 1.00        | 0.972       |                | mg/L |   | 97   | 80 - 120     | 2   | 20        |

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-304931/22-A

Matrix: Water

Analysis Batch: 305055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304931

| Analyte | MB Result | MB Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.00030 | 0.00030 | mg/L |   | 07/08/19 08:39 | 07/08/19 16:22 | 1       |

Lab Sample ID: LCS 580-304931/23-A

Matrix: Water

Analysis Batch: 305055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304931

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 0.00200     | 0.00195    |               | mg/L |   | 97   | 80 - 120     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-304931/24-A

Matrix: Water

Analysis Batch: 305055

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304931

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Mercury | 0.00200     | 0.00189     |                | mg/L |   | 94   | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-87175-6 MS

Matrix: Water

Analysis Batch: 305055

Client Sample ID: MTA-B08-14-20190625

Prep Type: Dissolved

Prep Batch: 304931

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|-----|-----------|
| Mercury | ND            |                  | 0.00200     | 0.00191   |              | mg/L |   | 95   | 80 - 120     |     |           |

Lab Sample ID: 580-87175-6 MSD

Matrix: Water

Analysis Batch: 305055

Client Sample ID: MTA-B08-14-20190625

Prep Type: Dissolved

Prep Batch: 304931

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Mercury | ND            |                  | 0.00200     | 0.00185    |               | mg/L |   | 93   | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-87175-6 DU

Matrix: Water

Analysis Batch: 305055

Client Sample ID: MTA-B08-14-20190625

Prep Type: Dissolved

Prep Batch: 304931

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Mercury | ND            |                  | ND        |              | mg/L |   | NC  | 20        |

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-305241/22-A

Matrix: Solid

Analysis Batch: 305319

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 305241

| Analyte | MB Result | MB Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.030 | 0.030 | mg/Kg |   | 07/10/19 11:46 | 07/10/19 15:55 | 1       |

Lab Sample ID: LCS 580-305241/23-A

Matrix: Solid

Analysis Batch: 305319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305241

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.167       | 0.164      |               | mg/Kg |   | 99   | 80 - 120     |     |           |

Lab Sample ID: LCSD 580-305241/24-A

Matrix: Solid

Analysis Batch: 305319

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 305241

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.167       | 0.148       |                | mg/Kg |   | 89   | 80 - 120     | 10  | 20        |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: TripBlank1-20190625**

**Lab Sample ID: 580-87175-1**

**Date Collected: 06/25/19 00:01**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 19:37       | CJ      | TAL SEA |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 13:35       | DCV     | TAL SEA |

**Client Sample ID: TripBlank2-20190625**

**Lab Sample ID: 580-87175-2**

**Date Collected: 06/25/19 00:01**

**Matrix: Water**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304262       | 06/28/19 01:08       | DSO     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304165       | 06/27/19 16:13       | DCV     | TAL SEA |

**Client Sample ID: MTA-B03(7.-10.5)-20190625**

**Lab Sample ID: 580-87175-3**

**Date Collected: 06/25/19 09:15**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B03(7.-10.5)-20190625**

**Lab Sample ID: 580-87175-3**

**Date Collected: 06/25/19 09:15**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 97.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 21:41       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 16:58       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 16:16       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 15:54       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 01:08       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:56       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:17       | T1H     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B08(0-2.5)-20190625**

**Lab Sample ID: 580-87175-4**

**Date Collected: 06/25/19 10:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B08(0-2.5)-20190625**

**Lab Sample ID: 580-87175-4**

**Date Collected: 06/25/19 10:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 95.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 22:05       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 17:24       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 16:44       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 16:15       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 01:28       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:59       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:24       | T1H     | TAL SEA |

**Client Sample ID: MTA-B08(7.5-8.5)-20190625**

**Lab Sample ID: 580-87175-5**

**Date Collected: 06/25/19 10:20**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B08(7.5-8.5)-20190625**

**Lab Sample ID: 580-87175-5**

**Date Collected: 06/25/19 10:20**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 22:30       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 17:50       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 17:11       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 17:16       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 01:48       | NMI     | TAL SPK |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B08(7.5-8.5)-20190625**

**Lab Sample ID: 580-87175-5**

**Date Collected: 06/25/19 10:20**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:03       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:26       | T1H     | TAL SEA |

**Client Sample ID: MTA-B08-14-20190625**

**Lab Sample ID: 580-87175-6**

**Date Collected: 06/25/19 11:09**

**Matrix: Water**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304262       | 06/28/19 06:53       | DSO     | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22845        | 07/02/19 10:14       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22857        | 07/02/19 23:44       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304451       | 06/28/19 20:25       | DCV     | TAL SEA |
| Total/NA  | Prep       | 8011         |     |                 | 305135       | 07/09/19 14:57       | K1H     | TAL SEA |
| Total/NA  | Analysis   | 8011         |     | 1               | 305285       | 07/10/19 19:26       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22976        | 07/11/19 10:34       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22973        | 07/11/19 14:47       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3510C        |     |                 | 22937        | 07/09/19 15:19       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22943        | 07/10/19 11:24       | NMI     | TAL SPK |
| Dissolved | Prep       | 3005A        |     |                 | 305019       | 07/08/19 15:52       | ART     | TAL SEA |
| Dissolved | Analysis   | 6020A        |     | 5               | 305308       | 07/10/19 17:13       | RM      | TAL SEA |
| Dissolved | Prep       | 7470A        |     |                 | 304931       | 07/08/19 08:39       | T1H     | TAL SEA |
| Dissolved | Analysis   | 7470A        |     | 1               | 305055       | 07/08/19 17:00       | T1H     | TAL SEA |

**Client Sample ID: MTA-B03(0-3)-20190625**

**Lab Sample ID: 580-87175-7**

**Date Collected: 06/25/19 11:45**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B03(0-3)-20190625**

**Lab Sample ID: 580-87175-7**

**Date Collected: 06/25/19 11:45**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 97.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 22:55       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 18:17       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 17:38       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 17:37       | NMI     | TAL SPK |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B03(0-3)-20190625**

**Lab Sample ID: 580-87175-7**

**Date Collected: 06/25/19 11:45**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 97.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 02:08       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:06       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:28       | T1H     | TAL SEA |

**Client Sample ID: MTA-B06(7.5-8.5)-20190625**

**Lab Sample ID: 580-87175-8**

**Date Collected: 06/25/19 12:35**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B06(7.5-8.5)-20190625**

**Lab Sample ID: 580-87175-8**

**Date Collected: 06/25/19 12:35**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 23:20       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 18:43       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 18:05       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 17:57       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 02:47       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:09       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:31       | T1H     | TAL SEA |

**Client Sample ID: MTA-B05(0-2.4)-20190625**

**Lab Sample ID: 580-87175-9**

**Date Collected: 06/25/19 13:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B05(0-2.4)-20190625**

**Lab Sample ID: 580-87175-9**

**Date Collected: 06/25/19 13:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/27/19 23:44       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 19:09       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 18:32       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 18:18       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 03:07       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:22       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:33       | T1H     | TAL SEA |

**Client Sample ID: MTA-B05(8-9)-20190625**

**Lab Sample ID: 580-87175-10**

**Date Collected: 06/25/19 13:15**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B05(8-9)-20190625**

**Lab Sample ID: 580-87175-10**

**Date Collected: 06/25/19 13:15**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/28/19 00:09       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 19:36       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 18:59       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 18:38       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 03:27       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:26       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:35       | T1H     | TAL SEA |



# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B04(10.5-11.5)-20190625**

**Lab Sample ID: 580-87175-11**

**Date Collected: 06/25/19 14:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B04(10.5-11.5)-20190625**

**Lab Sample ID: 580-87175-11**

**Date Collected: 06/25/19 14:00**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 98.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/28/19 00:33       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 20:02       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 19:54       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 18:59       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 04:07       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:29       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:37       | T1H     | TAL SEA |

**Client Sample ID: MTA-B01(0-3)-20190625**

**Lab Sample ID: 580-87175-12**

**Date Collected: 06/25/19 14:35**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B01(0-3)-20190625**

**Lab Sample ID: 580-87175-12**

**Date Collected: 06/25/19 14:35**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 98.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/28/19 00:58       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 20:28       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 20:21       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 19:19       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 04:26       | NMI     | TAL SPK |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

**Client Sample ID: MTA-B01(0-3)-20190625**

**Lab Sample ID: 580-87175-12**

**Date Collected: 06/25/19 14:35**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 98.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:32       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 305241       | 07/10/19 11:46       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305319       | 07/10/19 16:40       | T1H     | TAL SEA |

**Client Sample ID: MTA-B01(7.3-8.3)-20190625**

**Lab Sample ID: 580-87175-13**

**Date Collected: 06/25/19 14:45**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304477       | 07/01/19 10:47       | MLT     | TAL SEA |

**Client Sample ID: MTA-B01(7.3-8.3)-20190625**

**Lab Sample ID: 580-87175-13**

**Date Collected: 06/25/19 14:45**

**Matrix: Solid**

**Date Received: 06/25/19 16:55**

**Percent Solids: 99.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304247       | 06/25/19 17:00       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304251       | 06/28/19 01:23       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22851        | 07/02/19 11:58       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22842        | 07/02/19 20:55       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 20:48       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 19:40       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 04:46       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 11:35       | SPP     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-1

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | EPA Region | Identification Number | Expiration Date |
|--------------------|-----------------------|------------|-----------------------|-----------------|
| Alaska (UST)       | State Program         | 10         | 17-024                | 01-19-20        |
| ANAB               | Dept. of Defense ELAP |            | L2236                 | 01-19-22        |
| ANAB               | DoD                   |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| California         | State Program         | 9          | 2901                  | 11-05-19        |
| Montana (UST)      | State Program         | 8          | N/A                   | 04-30-20        |
| Oregon             | NELAP                 | 10         | WA100007              | 11-05-19        |
| Oregon             | NELAP                 |            | WA100007              | 11-05-19        |
| US Fish & Wildlife | Federal               |            | LE058448-0            | 07-31-19        |
| USDA               | Federal               |            | P330-14-00126         | 02-10-20        |
| Washington         | State Program         | 10         | C553                  | 02-17-20        |

### Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority    | Program       | EPA Region | Identification Number | Expiration Date |
|--------------|---------------|------------|-----------------------|-----------------|
| Alaska (UST) | State Program | 10         | 17-025                | 12-07-19        |
| Oregon       | NELAP         | 10         | 4137                  | 12-07-19        |
| Oregon       | NELAP         |            | 4137                  | 12-07-19        |
| Washington   | State Program | 10         | C569                  | 01-06-20        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

Laboratory Job ID: 580-87175-2

Client Project/Site: MTA Parking Lot, Shelton, WA

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
7/25/2019 3:54:31 PM

Kristine Allen, Manager of Project Management  
(253)248-4970

[kristine.allen@testamericainc.com](mailto:kristine.allen@testamericainc.com)

Designee for

Sheri Cruz, Project Manager I  
(253)922-2310

[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

**Job ID: 580-87175-2**

**Laboratory: Eurofins TestAmerica, Seattle**

### Narrative

#### Job Narrative 580-87175-2

#### Comments

7/17/19 Client revised COC to fix sample 580-87175-3.

7/17/19 Client emailed COC to activate all the soil samples for Hexachromium.

7/17/19 Client emailed COC to cancel all Hexachromium except sample 580-87175-4 (MTA-B08(0-2.5)-20190625).

#### Receipt

The samples were received on 6/25/2019 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.7° C.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

### Qualifiers

#### General Chemistry

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |



## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

| Lab Sample ID | Client Sample ID        | Matrix | Collected      | Received       | Asset ID |
|---------------|-------------------------|--------|----------------|----------------|----------|
| 580-87175-4   | MTA-B08(0-2.5)-20190625 | Solid  | 06/25/19 10:00 | 06/25/19 16:55 |          |

1

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3

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11



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/25/2019  
 Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
 Project Location/Event Shelton, WA  
 Sampler's Name Katie Gauglitz  
 Project Contact Sarah Fees  
 Send Results To D. Jorgensen, S. Fees

Testing Parameters  
 PCRA Metals 6020A/741B  
 Hex Chromium 7190A  
 BTEX, EDC, MTBE 8260CL  
 TPH-G NWTPH-GX  
 TPH-D, TPH-O NWTPH-DX  
 CPAH 8270  
 PCBs 8082A  
 EDB 8260CL  
 EDB 8011

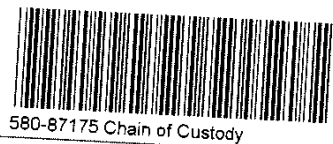
Special Handling Requirements:  
 Shipment Method:  
 Stored on ice: ☒ Yes ☐ No

| Sample I.D.                 | Date    | Time | Matrix | No. of Containers |
|-----------------------------|---------|------|--------|-------------------|
| Trip Blank 1-20190625       | —       | —    | Soil   | 3                 |
| Trip Blank 2-20190625       | —       | —    | Ag     | 6                 |
| MTA-B03(7-10.5)-20190625    | 6/25/19 | 915  | Soil   | 5                 |
| MTA-B08(0-2.5)-20190625     |         | 1000 | Soil   | 5                 |
| MTA-B04(7.5-8.5)-20190625   |         | 1020 | Soil   | 5                 |
| MTA-B08-14-20190625         |         | 1109 | Ag     | 15                |
| MTA-B03(0-3)-20190625       |         | 1145 | Soil   | 5                 |
| MTA-B06(7.5-8.5)-20190625   |         | 1235 | Soil   | 5                 |
| MTA-B05(0-2.4)-20190625     |         | 1300 | Soil   | 5                 |
| MTA-B05(8-9)-20190625       |         | 1315 | Soil   | 5                 |
| MTA-B04(10.5-11.5)-20190625 |         | 1400 | Soil   | 5                 |
| MTA-B01(0-3)-20190625       |         | 1435 | Soil   | 5                 |
| MTA-B01(7.3-8.3)-20190625   |         | 1445 | Soil   | 5                 |

Observations/Comments  
 Allow water samples to settle, collect aliquot from clear portion ☐  
 NWTPH-Dx - Acid wash cleanup ☐  
 - Silica gel cleanup ☐  
☒ Dissolved metal samples were field filtered

Other \_\_\_\_\_  
 Therm. ID: A2 Cor: 3.2 ° Unc: 3.5 °  
 Cooler Desc: kg Blue FedEx:  
 Packing: bubble UPS:  
 Cust. Seal: Yes No Lab Cour:  
 Blue Ice, ☒ Wet, Dry, None Other:

Therm. ID: A2 Cor: 3.7 ° Unc: 4.0 °  
 Cooler Desc: kg Blue FedEx:  
 Packing: bubble UPS:  
 Cust. Seal: Yes No Lab Cour:  
 Blue Ice, ☒ Wet, Dry, None Other: cf. drc



580-87175 Chain of Custody

Relinquished by  
 Signature Katie Gauglitz  
 Printed Name Katie Gauglitz  
 Company Landau Associates  
 Date 6/25/2019 Time 16:55

Received by  
 Signature Tom Blankinship  
 Printed Name Blankinship  
 Company TA-SEA  
 Date 6/25/19 Time 16:55

Relinquished by  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2018



# Chain-of-Custody Record

Seattle/Edmonds (425) 775-5500  
Tacoma (253) 835-2453

Spokane (509) 327-4747  
Portland (503) 342-4888

Date 7/25/2019  
Page 1 of 1

Transportation Time  
Accelerated

| Project Name: <u>Midway Transit Authority</u>                                                                                                                             |         | Project No.: <u>817001.00.012</u>                                                                                                                    |        | Testing Parameters                                                                                       |                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Project Location/Route: <u>Shelton, WA</u>                                                                                                                                |         |                                                                                                                                                      |        | Special Handling Requirements:                                                                           |                                                                                            |
| Sampler's Name: <u>Katie Gungite</u>                                                                                                                                      |         |                                                                                                                                                      |        | Shipping Method:                                                                                         |                                                                                            |
| Project Contact: <u>Sarah Fees</u>                                                                                                                                        |         |                                                                                                                                                      |        | Revised on: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                          |                                                                                            |
| Send Results To: <u>D. Ingerson, S. Fees</u>                                                                                                                              |         |                                                                                                                                                      |        | Observations/Comments:                                                                                   |                                                                                            |
| Sample ID                                                                                                                                                                 | Date    | Time                                                                                                                                                 | Matrix | No. of Containers                                                                                        |                                                                                            |
| WTA-B01(1-3)-20190625                                                                                                                                                     |         |                                                                                                                                                      | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B02(1-3)-20190625                                                                                                                                                     |         |                                                                                                                                                      | Ag     | 6                                                                                                        |                                                                                            |
| WTA-B03(1-3)-20190625                                                                                                                                                     | 7/25/19 | 9:15                                                                                                                                                 | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B04(1-3)-20190625                                                                                                                                                     |         | 10:00                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B05(1-3)-20190625                                                                                                                                                     |         | 10:30                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B06(1-3)-20190625                                                                                                                                                     |         | 11:04                                                                                                                                                | Ag     | 3                                                                                                        |                                                                                            |
| WTA-B07(1-3)-20190625                                                                                                                                                     |         | 11:45                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B08(1-3)-20190625                                                                                                                                                     |         | 12:35                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B09(1-3)-20190625                                                                                                                                                     |         | 13:00                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B10(1-3)-20190625                                                                                                                                                     |         | 13:15                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B11(1-3)-20190625                                                                                                                                                     |         | 14:00                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B12(1-3)-20190625                                                                                                                                                     |         | 14:35                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
| WTA-B13(1-3)-20190625                                                                                                                                                     |         | 14:45                                                                                                                                                | Soil   | 3                                                                                                        |                                                                                            |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | Align water samples to settle, collect aliquot from clear portion <input type="checkbox"/> |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | WATPH-20 - Acid wash cleanup <input type="checkbox"/>                                      |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | Glass gel cleanup <input type="checkbox"/>                                                 |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | <input checked="" type="checkbox"/> Dissolved metal samples were field filtered            |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | Other:                                                                                     |
|                                                                                                                                                                           |         |                                                                                                                                                      |        |                                                                                                          | * Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEP)    |
| Relinquished by:<br>Signature: <u>Katie Gungite</u><br>Printed Name: <u>Katie Gungite</u><br>Company: <u>Landam Associates</u><br>Date: <u>7/25/19</u> Time: <u>16:55</u> |         | Received by:<br>Signature: <u>[Signature]</u><br>Printed Name: <u>[Name]</u><br>Company: <u>[Company]</u><br>Date: <u>7/25/19</u> Time: <u>16:55</u> |        | Relinquished by:<br>Signature: _____<br>Printed Name: _____<br>Company: _____<br>Date: _____ Time: _____ |                                                                                            |
| Received by:<br>Signature: _____<br>Printed Name: _____<br>Company: _____<br>Date: _____ Time: _____                                                                      |         |                                                                                                                                                      |        |                                                                                                          |                                                                                            |





## Chain-of-Custody Record

Date 6/25/2019  
Page 1 of 1

Turnaround Time:  
Standard \_\_\_\_\_  
Accelerated \_\_\_\_\_

Project Name Moson Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To D. Jorgensen, S. Fees

### Testing Parameters

**Special Handling Requirements:**

**Shipment Method:**

Stored on ice: ☒ Yes / ☐ No

| Observations/Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. The patient is a 65-year-old male with a long history of hypertension and hyperlipidemia. He has been on treatment for these conditions for many years.</p> <p>2. The patient has a family history of heart disease, with his father having a heart attack at the age of 55.</p> <p>3. The patient has been a smoker for 30 years, with approximately 20 cigarettes per day.</p> <p>4. The patient has been experiencing chest pain and shortness of breath for the past few weeks, which has worsened over time.</p> <p>5. The patient has been unable to exercise or perform his usual activities of daily living due to the symptoms.</p> <p>6. The patient has been taking aspirin and nitroglycerin as prescribed, but the symptoms have not improved.</p> <p>7. The patient has been feeling increasingly fatigued and has lost weight over the past few months.</p> <p>8. The patient has been experiencing difficulty sleeping and has been waking up frequently at night.</p> <p>9. The patient has been feeling anxious and has been experiencing palpitations.</p> <p>10. The patient has been feeling dizzy and has been experiencing lightheadedness.</p> <p>11. The patient has been feeling nauseous and has been experiencing vomiting.</p> <p>12. The patient has been feeling constipated and has been experiencing bloating.</p> <p>13. The patient has been feeling thirsty and has been drinking more water than usual.</p> <p>14. The patient has been feeling hungry and has been eating more than usual.</p> <p>15. The patient has been feeling hot and has been sweating more than usual.</p> <p>16. The patient has been feeling cold and has been wearing more clothing than usual.</p> <p>17. The patient has been feeling itchy and has been scratching himself frequently.</p> <p>18. The patient has been feeling numb and has been experiencing tingling in his hands and feet.</p> <p>19. The patient has been feeling weak and has been experiencing muscle pain.</p> <p>20. The patient has been feeling confused and has been experiencing memory loss.</p> |

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐  
- Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

Other

\* Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEF) 6/26/19

Relinquished by  
Signature *Kathleen E. Ganglitz*  
Printed Name *Katie Ganglitz*  
Company *Landan Associates*  
Date *6/25/2011* Time *16:55*

Received by \_\_\_\_\_  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date 6/25/19 Time 1655

**Relinquished by**  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_

**Received by**  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_





# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/25/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Moson Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To D. Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐  
- Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

Other

\* Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEF) 6/26/19

| Sample I.D.                 | Date    | Time  | Matrix | No. of Containers | RCRA Metals | Hex Chromium | BTEX, EDC, MTBE | TPH-G | TPH-D | CPAH | PCB | EDB | EDB |
|-----------------------------|---------|-------|--------|-------------------|-------------|--------------|-----------------|-------|-------|------|-----|-----|-----|
| Trip Blank 1 - 20190625     | ---     | ---   | Soil   | 3                 |             |              |                 |       |       |      |     |     |     |
| Trip Blank 2 - 20190625     | ---     | ---   | Ag     | 6                 |             |              |                 |       |       |      |     |     |     |
| MTA-B03(7.5-10.5)-20190625  | 6/25/19 | 9:15  | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B06(0-2.5)-20190625     |         | 10:00 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B09(7.5-8.5)-20190625   |         | 10:20 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B08-14-20190625         |         | 11:09 | Ag     | 15                | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B03(0-3)-20190625       |         | 11:45 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B06(7.5-8.5)-20190625   |         | 12:35 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B05(0-2.4)-20190625     |         | 13:00 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B05(8-9)-20190625       |         | 13:15 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B04(10.5-11.5)-20190625 |         | 14:00 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B01(0-3)-20190625       |         | 14:35 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |
| MTA-B01(7.3-8.3)-20190625   |         | 14:45 | Soil   | 5                 | X           | X            | X               | X     | X     | X    | X   | X   | X   |

Relinquished by  
Signature Katie Gauglitz  
Printed Name Katie Gauglitz  
Company Landau Associates  
Date 6/25/2019 Time 16:55

Received by  
Signature [Signature]  
Printed Name Blair Shipley  
Company TACSEA  
Date 6/25/19 Time 16:55

Relinquished by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_





# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/25/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Moson Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To D. Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐  
- Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

Other

\* Hex Chromium Soil Samples are on hold pending results of RCRA 8 metals analysis (SEF) 6/26/19

| Sample I.D.                 | Date    | Time  | Matrix | No. of Containers |
|-----------------------------|---------|-------|--------|-------------------|
| Trip Blank 1 - 20190625     | ---     | ---   | Soil   | 3                 |
| Trip Blank 2 - 20190625     | ---     | ---   | Ag     | 6                 |
| MTA-B03(7.5-10.5)-20190625  | 6/25/19 | 9:15  | Soil   | 5                 |
| MTA-B06(0-2.5)-20190625     |         | 10:00 | Soil   | 5                 |
| MTA-B09(7.5-8.5)-20190625   |         | 10:20 | Soil   | 5                 |
| MTA-B08-14-20190625         |         | 11:09 | Ag     | 15                |
| MTA-B03(0-3)-20190625       |         | 11:45 | Soil   | 5                 |
| MTA-B06(7.5-8.5)-20190625   |         | 12:35 | Soil   | 5                 |
| MTA-B05(0-2.4)-20190625     |         | 13:00 | Soil   | 5                 |
| MTA-B05(8-9)-20190625       |         | 13:15 | Soil   | 5                 |
| MTA-B04(10.5-11.5)-20190625 |         | 14:00 | Soil   | 5                 |
| MTA-B01(0-3)-20190625       |         | 14:35 | Soil   | 5                 |
| MTA-B01(7.3-8.3)-20190625   |         | 14:45 | Soil   | 5                 |

Relinquished by

Signature Katie Gauglitz

Printed Name Katie Gauglitz

Company Landau Associates

Date 6/25/2019 Time 16:55

Received by

Signature [Signature]

Printed Name Blank Signature

Company TACSEA

Date 6/25/19 Time 16:55

Relinquished by

Signature

Printed Name

Company

Date Time

Received by

Signature

Printed Name

Company

Date Time

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2018

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87175-2

Login Number: 87175

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Vallelunga, Diana L

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |



## Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

### General Chemistry

Client Sample ID: MTA-B08(0-2.5)-20190625

Date Collected: 06/25/19 10:00

Date Received: 06/25/19 16:55

Lab Sample ID: 580-87175-4

Matrix: Solid

Percent Solids: 95.6

| Analyte       | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium, hex | ND     | F1        | 5.1 | 5.1 | mg/Kg | ☼ | 07/21/19 20:35 | 07/24/19 14:11 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

## Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 490-607347/1-A

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | MB<br>Result | MB<br>Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------|--------------|-----------------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium, hex | ND           |                 | 5.0 | 5.0 | mg/Kg |   | 07/21/19 20:34 | 07/24/19 14:11 | 1       |

Lab Sample ID: LCS1 490-607347/3-A

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | Spike<br>Added | LCS1<br>Result | LCS1<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|---------------|----------------|----------------|-------------------|-------|---|------|-----------------|
| Chromium, hex | 63.3           | 53.0           |                   | mg/Kg |   | 84   | 80 - 120        |

Lab Sample ID: LCSS 490-607347/2-A

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | Spike<br>Added | LCSS<br>Result | LCSS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|---------------|----------------|----------------|-------------------|-------|---|------|-----------------|
| Chromium, hex | 40.0           | 31.8           |                   | mg/Kg |   | 80   | 80 - 120        |

Lab Sample ID: 580-87175-4 MSI

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: MTA-B08(0-2.5)-20190625

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSI<br>Result | MSI<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|---------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chromium, hex | ND               | F1                  | 67.9           | 54.5          |                  | mg/Kg | ⚠ | 80   | 75 - 125        |

Lab Sample ID: 580-87175-4 MSS

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: MTA-B08(0-2.5)-20190625

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSS<br>Result | MSS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|---------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chromium, hex | ND               | F1                  | 41.7           | 26.1          | F1               | mg/Kg | ⚠ | 62   | 75 - 125        |

Lab Sample ID: 580-87175-4 DU

Matrix: Solid

Analysis Batch: 607717

Client Sample ID: MTA-B08(0-2.5)-20190625

Prep Type: Total/NA

Prep Batch: 607347

| Analyte       | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit  | D | RPD | RPD<br>Limit |
|---------------|------------------|---------------------|--------------|-----------------|-------|---|-----|--------------|
| Chromium, hex | ND               | F1                  | ND           |                 | mg/Kg | ⚠ | NC  | 20           |

Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

**Client Sample ID: MTA-B08(0-2.5)-20190625**  
**Date Collected: 06/25/19 10:00**  
**Date Received: 06/25/19 16:55**

**Lab Sample ID: 580-87175-4**  
**Matrix: Solid**  
**Percent Solids: 95.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3060A        |     |                 | 607347       | 07/21/19 20:35       | MSP     | TAL NSH |
| Total/NA  | Analysis   | 7196A        |     | 1               | 607717       | 07/24/19 14:11       | BMC     | TAL NSH |

**Laboratory References:**  
TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | EPA Region | Identification Number | Expiration Date |
|--------------------|-----------------------|------------|-----------------------|-----------------|
| Alaska (UST)       | State Program         | 10         | 17-024                | 01-19-20        |
| ANAB               | Dept. of Defense ELAP |            | L2236                 | 01-19-22        |
| ANAB               | DoD                   |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| California         | State Program         | 9          | 2901                  | 11-05-19        |
| Montana (UST)      | State Program         | 8          | N/A                   | 04-30-20        |
| Oregon             | NELAP                 | 10         | WA100007              | 11-05-19        |
| Oregon             | NELAP                 |            | WA100007              | 11-05-19        |
| US Fish & Wildlife | Federal               |            | LE058448-0            | 07-31-19        |
| USDA               | Federal               |            | P330-14-00126         | 02-10-20        |
| Washington         | State Program         | 10         | C553                  | 02-17-20        |

### Laboratory: Eurofins TestAmerica, Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program       | EPA Region | Identification Number    | Expiration Date |
|------------------------|---------------|------------|--------------------------|-----------------|
| A2LA                   | ISO/IEC 17025 |            | 0453.07                  | 12-31-19        |
| A2LA                   | ISO/IEC 17025 |            | 0453.07                  | 12-31-19        |
| Alaska (UST)           | State Program | 10         | UST-087                  | 09-30-19        |
| Arizona                | State Program | 9          | AZ0473                   | 05-05-20        |
| Arkansas DEQ           | State Program | 6          | 88-0737                  | 04-25-20        |
| California             | State Program | 9          | 2938                     | 06-30-20        |
| Connecticut            | State Program | 1          | PH-0220                  | 12-31-19        |
| Florida                | NELAP         | 4          | E87358                   | 06-30-20        |
| Georgia                | State Program | 4          | E87358(FL)/453.07(A2L A) | 06-30-20        |
| Illinois               | NELAP         | 5          | 200010                   | 12-09-19        |
| Iowa                   | State Program | 7          | 131                      | 04-01-20        |
| Kansas                 | NELAP         | 7          | E-10229                  | 10-31-19        |
| Kentucky (UST)         | State Program | 4          | 19                       | 06-30-20        |
| Kentucky (WW)          | State Program | 4          | 90038                    | 12-31-19        |
| Louisiana              | NELAP         | 6          | 30613                    | 06-30-20        |
| Maine                  | State Program | 1          | TN00032                  | 11-03-19        |
| Maryland               | State Program | 3          | 316                      | 03-31-20        |
| Massachusetts          | State Program | 1          | M-TN032                  | 06-30-20        |
| Minnesota              | NELAP         | 5          | 047-999-345              | 12-31-19        |
| Mississippi            | State Program | 4          | N/A                      | 06-30-19 *      |
| Nevada                 | State Program | 9          | TN00032                  | 07-31-19 *      |
| New Hampshire          | NELAP         | 1          | 2963                     | 10-09-19        |
| New Jersey             | NELAP         | 2          | TN965                    | 06-30-20        |
| New York               | NELAP         | 2          | 11342                    | 03-31-20        |
| North Carolina (WW/SW) | State Program | 4          | 387                      | 12-31-19        |
| North Dakota           | State Program | 8          | R-146                    | 06-30-19 *      |
| Oklahoma               | State Program | 6          | 9412                     | 08-31-19 *      |
| Oregon                 | NELAP         | 10         | TN200001                 | 04-26-20        |
| Pennsylvania           | NELAP         | 3          | 68-00585                 | 07-31-19 *      |
| Rhode Island           | State Program | 1          | LAO00268                 | 12-30-19        |
| South Carolina         | State Program | 4          | 84009 (001)              | 02-28-19 *      |
| Tennessee              | State Program | 4          | 2008                     | 02-23-20        |
| Texas                  | NELAP         | 6          | T104704077               | 08-31-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Seattle

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87175-2

### Laboratory: Eurofins TestAmerica, Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority         | Program       | EPA Region | Identification Number | Expiration Date |
|-------------------|---------------|------------|-----------------------|-----------------|
| USDA              | Federal       |            | P330-13-00306         | 04-10-20        |
| Utah              | NELAP         | 8          | TN00032               | 07-31-19        |
| Virginia          | NELAP         | 3          | 460152                | 06-14-20        |
| Washington        | State Program | 10         | C789                  | 07-19-19 *      |
| West Virginia DEP | State Program | 3          | 219                   | 02-28-20        |
| Wisconsin         | State Program | 5          | 998020430             | 08-31-19 *      |
| Wyoming (UST)     | A2LA          | 8          | 453.07                | 12-31-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Seattle

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

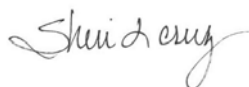
Laboratory Job ID: 580-87205-1

Client Project/Site: MTA Parking Lot, Shelton, WA

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
7/15/2019 2:51:42 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Job ID: 580-87205-1

Laboratory: Eurofins TestAmerica, Seattle

### Narrative

#### Job Narrative 580-87205-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/26/2019 2:14 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260C: Surrogate recovery for the following samples were outside the upper control limit: TripBlank1-20190626 (580-87205-1), MTA-B06(0-3)-20190626 (580-87205-3) and MTA-B02(0-3)-20190626 (580-87205-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8011: The continuing calibration verification (CCV) associated with 580-305285 recovered outside the control limits for 1,2-Dibromopropane on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: MTA-B02-14-20190626 (580-87205-6), MTA-B99-20190626 (580-87205-7), MTA-B07-14-20190626 (580-87205-9) and (CCV 580-305243/1-A).

Method(s) NWTPH-Dx: Detected hydrocarbons appear to be due to creosote or similar product. MTA-B06(0-3)-20190626 (580-87205-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### VOA Prep

Method(s) 5035: The following sample(s) was provided to the laboratory with a significantly different initial weight than that required by the reference method: 580-87205-C-3 (6.214g), 580-87205-C-4 (6.204g), and 580-87205-C-8 (6.054g). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description               |
|-----------|-------------------------------------|
| X         | Surrogate is outside control limits |

#### GC Semi VOA

| Qualifier | Qualifier Description                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------|
| p         | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |

#### Metals

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |
| F2        | MS/MSD RPD exceeds control limits                    |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

| Lab Sample ID | Client Sample ID          | Matrix | Collected      | Received       | Asset ID |
|---------------|---------------------------|--------|----------------|----------------|----------|
| 580-87205-1   | TripBlank1-20190626       | Solid  | 06/26/19 00:01 | 06/26/19 14:14 |          |
| 580-87205-2   | TripBlank2-20190626       | Water  | 06/26/19 00:01 | 06/26/19 14:14 |          |
| 580-87205-3   | MTA-B06(0-3)-20190626     | Solid  | 06/26/19 08:20 | 06/26/19 14:14 |          |
| 580-87205-4   | MTA-B02(0-3)-20190626     | Solid  | 06/26/19 08:45 | 06/26/19 14:14 |          |
| 580-87205-5   | MTA-B02(5.5-6.5)-20190626 | Solid  | 06/26/19 09:30 | 06/26/19 14:14 |          |
| 580-87205-6   | MTA-B02-14-20190626       | Water  | 06/26/19 09:40 | 06/26/19 14:14 |          |
| 580-87205-7   | MTA-B99-20190626          | Water  | 06/26/19 09:45 | 06/26/19 14:14 |          |
| 580-87205-8   | MTA-B07(6.5-7.5)-20190626 | Solid  | 06/26/19 10:55 | 06/26/19 14:14 |          |
| 580-87205-9   | MTA-B07-14-20190626       | Water  | 06/26/19 11:33 | 06/26/19 14:14 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/26/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA /drilling  
Sampler's Name Katie Gaughite  
Project Contact S. Fees  
Send Results To D. Jorgensen, S. Fees

## Testing Parameters

87205

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

Sample I.D.

Date

Time

Matrix

No. of  
Containers

RCRA 8 Metals 6010C 7410  
Hex. Chromium 7196A 7410  
BTEX, EDC, MTBE 8260C 4  
TPH-G NWT PH-GX  
TPH-D, TPH-O, NWT PH-DX  
CPAH 8270  
PCBs 8082A  
EDB 8260C 4  
EDB 8011  
TCLP Metals \*

Observations/Comments

|    |                           |         |      |      |    |
|----|---------------------------|---------|------|------|----|
| 1  | Trip Blank 1 - 20190626   | 6/26/19 | 820  | Soil | 3  |
|    | Trip Blank 2 - 20190626   |         |      | Aq   | 6  |
| -3 | MTA-B06(0-3)-20190626     | 6/26/19 | 820  | Soil | 5  |
|    | MTA-B02(0-3)-20190626     |         | 845  | Soil | 5  |
| -5 | MTA-B02(5.5-6.5)-20190626 |         | 930  | Soil | 5  |
|    | MTA-B02-14-20190626       |         | 940  | Aq   | 15 |
| -7 | MTA-B09-20190626          |         | 945  | Aq   | 15 |
|    | MTA-B07(6.5-7.5)-20190626 |         | 1055 | Soil | 5  |
| -9 | MTA-B07-14-20190626       |         | 1133 | Aq   | 15 |
|    | MTA-IDW-20190626          | 6/26/19 | 1115 | Soil | 2  |

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐

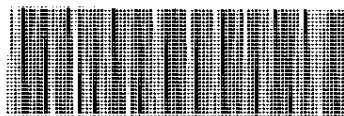
- Silica gel cleanup ☐

X Dissolved metal samples were field filtered  
0.45um filter

Other

\* Hex. chromium soil samples  
are on hold pending  
results of RCRA 8 analysis

\* TCLP Metals on hold  
pending RCRA 8 metals  
results



580-87205 Chain of Custody

Therm. ID: A2 Cor: 0.9C Unc: 1.2C  
Cooler Dsc: Ly Blue  
Packing: Bubble FedEx: \_\_\_\_\_  
Cust. Seal: Yes No X UPS: \_\_\_\_\_  
Blue Ice, Yes Dry, None Lab Cour: \_\_\_\_\_  
Other: clean

Therm. ID: A2 Cor: 3.3C Unc: 3.6C  
Cooler Dsc: Ly Blue  
Packing: bubble FedEx: \_\_\_\_\_  
Cust. Seal: Yes No X UPS: \_\_\_\_\_  
Blue Ice, Yes Dry, None Lab Cour: \_\_\_\_\_  
Other: clean

Relinquished by

Signature Katie Gaughite  
Printed Name Katie Gaughite  
Company Landau Associates  
Date 6/26/19 Time 14:15

Received by

Signature Terrence Harris  
Printed Name Terrence Harris  
Company T.A.  
Date 6/26/19 Time 14:14

Relinquished by

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

Received by

Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

## COOLER RECEIPT FORM



580-87205 Chain of Custody

Cooler Received/Opened On 6/28/2019 @ 9:55

Time Samples Removed From Cooler \_\_\_\_\_ Time Samples Placed In Storage \_\_\_\_\_ (2 Hour Window)

1. Tracking # 0523 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A
2. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? 1 side YES...NO...NA

If yes, how many and where: \_\_\_\_\_

5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) \_\_\_\_\_

7. Were custody seals on containers: YES NO and intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) \_\_\_\_\_

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) \_\_\_\_\_

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) \_\_\_\_\_

I certify that I attached a label with the unique LIMS number to each container (initial) \_\_\_\_\_

21. Were there Non-Conformance issues at login? YES...NO...# Was a NCM generated? YES...NO...# \_\_\_\_\_





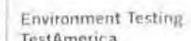
Environment Testing  
TestAmerica

[illegible]

## Chain of Custody Record

[illegible]





Ver: 01/16/2019  
7/15/2019

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87205-1

**Login Number: 87205**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87205-1

**Login Number: 87205**

**List Number: 3**

**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**

**List Creation: 06/28/19 02:06 PM**

| Question                                                                                 | Answer | Comment                                                 |
|------------------------------------------------------------------------------------------|--------|---------------------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.                                        | True   | 496969                                                  |
| Sample custody seals, if present, are intact.                                            | N/A    |                                                         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                                         |
| Samples were received on ice.                                                            | True   |                                                         |
| Cooler Temperature is acceptable.                                                        | True   | 2.9                                                     |
| Cooler Temperature is recorded.                                                          | True   |                                                         |
| COC is present.                                                                          | True   |                                                         |
| COC is filled out in ink and legible.                                                    | True   |                                                         |
| COC is filled out with all pertinent information.                                        | True   |                                                         |
| Is the Field Sampler's name present on COC?                                              | N/A    | Not listed on COC                                       |
| There are no discrepancies between the containers received and the COC.                  | True   |                                                         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                                         |
| Sample containers have legible labels.                                                   | True   |                                                         |
| Containers are not broken or leaking.                                                    | True   |                                                         |
| Sample collection date/times are provided.                                               | True   |                                                         |
| Appropriate sample containers are used.                                                  | True   |                                                         |
| Sample bottles are completely filled.                                                    | N/A    |                                                         |
| Sample Preservation Verified.                                                            | True   |                                                         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                                         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                                         |
| Multiphasic samples are not present.                                                     | True   |                                                         |
| Samples do not require splitting or compositing.                                         | True   |                                                         |
| Residual Chlorine Checked.                                                               | N/A    | No analysis requiring residual chlorine check assigned. |

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87205-1

**Login Number: 87205**

**List Number: 4**

**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**

**List Creation: 07/02/19 10:01 AM**

| Question                                                                                 | Answer | Comment                                                 |
|------------------------------------------------------------------------------------------|--------|---------------------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.                                        | True   | 785074                                                  |
| Sample custody seals, if present, are intact.                                            | True   |                                                         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                                         |
| Samples were received on ice.                                                            | True   | 3.3                                                     |
| Cooler Temperature is acceptable.                                                        | True   |                                                         |
| Cooler Temperature is recorded.                                                          | True   |                                                         |
| COC is present.                                                                          | True   | Not listed on COC                                       |
| COC is filled out in ink and legible.                                                    | True   |                                                         |
| COC is filled out with all pertinent information.                                        | True   |                                                         |
| Is the Field Sampler's name present on COC?                                              | N/A    | Not listed on COC                                       |
| There are no discrepancies between the containers received and the COC.                  | True   |                                                         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                                         |
| Sample containers have legible labels.                                                   | True   |                                                         |
| Containers are not broken or leaking.                                                    | True   |                                                         |
| Sample collection date/times are provided.                                               | True   |                                                         |
| Appropriate sample containers are used.                                                  | True   |                                                         |
| Sample bottles are completely filled.                                                    | True   |                                                         |
| Sample Preservation Verified.                                                            | N/A    |                                                         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                                         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                                         |
| Multiphasic samples are not present.                                                     | True   |                                                         |
| Samples do not require splitting or compositing.                                         | True   | No analysis requiring residual chlorine check assigned. |
| Residual Chlorine Checked.                                                               | N/A    |                                                         |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: TripBlank2-20190626

Date Collected: 06/26/19 00:01

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-2

Matrix: Water

| Analyte                 | Result      | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-------------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND          |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:34 | 1       |
| Benzene                 | ND          |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:34 | 1       |
| Ethylbenzene            | ND          |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:34 | 1       |
| Methyl tert-butyl ether | ND          |           | 0.30 | 0.30 | ug/L |   |          | 06/28/19 01:34 | 1       |
| m-Xylene & p-Xylene     | ND          |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 01:34 | 1       |
| o-Xylene                | ND          |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 01:34 | 1       |
| <b>Toluene</b>          | <b>0.42</b> |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 01:34 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 80 - 120 |          | 06/28/19 01:34 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |          | 06/28/19 01:34 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 06/28/19 01:34 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 |          | 06/28/19 01:34 | 1       |
| Trifluorotoluene (Surr)      | 99        |           | 80 - 120 |          | 06/28/19 01:34 | 1       |

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte                 | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 07:20 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 07:20 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 07:20 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 06/28/19 07:20 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 07:20 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 06/28/19 07:20 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 06/28/19 07:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 80 - 120 |          | 06/28/19 07:20 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 06/28/19 07:20 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 06/28/19 07:20 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 |          | 06/28/19 07:20 | 1       |
| Trifluorotoluene (Surr)      | 98        |           | 80 - 120 |          | 06/28/19 07:20 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                 | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:47 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:47 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:47 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 07/01/19 17:47 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 17:47 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 17:47 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 80 - 120 |          | 07/01/19 17:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 80 - 120 |          | 07/01/19 17:47 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 07/01/19 17:47 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 07/01/19 17:47 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------|----------------|---------|
| Trifluorotoluene (Surr) | 96        |           | 80 - 120 |          | 07/01/19 17:47 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte                 | Result | Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 18:13 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 18:13 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 18:13 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 07/01/19 18:13 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 18:13 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 18:13 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 18:13 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 80 - 120 |          | 07/01/19 18:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 07/01/19 18:13 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 80 - 120 |          | 07/01/19 18:13 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 |          | 07/01/19 18:13 | 1       |
| Trifluorotoluene (Surr)      | 106       |           | 80 - 120 |          | 07/01/19 18:13 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: TripBlank1-20190626

Date Collected: 06/26/19 00:01

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-1

Matrix: Solid

| Analyte             | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND     |           | 1.0 | 1.0 | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Benzene             | ND     |           | 2.0 | 2.0 | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Ethylbenzene        | ND     |           | 2.0 | 2.0 | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| m-Xylene & p-Xylene | ND     |           | 10  | 10  | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| o-Xylene            | ND     |           | 5.0 | 5.0 | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Toluene             | ND     |           | 10  | 10  | ug/Kg |   | 06/26/19 16:40 | 06/28/19 15:19 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 122       | X         | 80 - 121 | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 15:19 | 1       |
| Trifluorotoluene (Surr)      | 102       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 15:19 | 1       |

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte             | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND     |           | 1.0 | 1.0 | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Benzene             | ND     |           | 2.0 | 2.0 | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Ethylbenzene        | ND     |           | 2.0 | 2.0 | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| m-Xylene & p-Xylene | ND     |           | 10  | 10  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| o-Xylene            | ND     |           | 5.0 | 5.0 | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Toluene             | ND     |           | 10  | 10  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:01 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 80 - 121 | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:01 | 1       |
| Trifluorotoluene (Surr)      | 97        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:01 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte             | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND     |           | 0.85 | 0.85 | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Benzene             | ND     |           | 1.7  | 1.7  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Ethylbenzene        | ND     |           | 1.7  | 1.7  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| m-Xylene & p-Xylene | ND     |           | 8.5  | 8.5  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| o-Xylene            | ND     |           | 4.2  | 4.2  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Toluene             | ND     |           | 8.5  | 8.5  | ug/Kg | ✱ | 06/26/19 16:40 | 06/28/19 19:26 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 80 - 121 | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:26 | 1       |
| Trifluorotoluene (Surr)      | 96        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:26 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte             | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND     |           | 1.0 | 1.0 | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Benzene             | ND     |           | 2.0 | 2.0 | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Ethylbenzene        | ND     |           | 2.0 | 2.0 | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| m-Xylene & p-Xylene | ND     |           | 10  | 10  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| o-Xylene            | ND     |           | 5.1 | 5.1 | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Toluene             | ND     |           | 10  | 10  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 19:50 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 80 - 121 | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:50 | 1       |
| Trifluorotoluene (Surr)      | 99        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 19:50 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte             | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND     |           | 0.92 | 0.92 | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Benzene             | ND     |           | 1.8  | 1.8  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Ethylbenzene        | ND     |           | 1.8  | 1.8  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| m-Xylene & p-Xylene | ND     |           | 9.2  | 9.2  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| o-Xylene            | ND     |           | 4.6  | 4.6  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Toluene             | ND     |           | 9.2  | 9.2  | ug/Kg | ☼ | 06/26/19 16:40 | 06/28/19 20:15 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 80 - 121 | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 20:15 | 1       |
| Trifluorotoluene (Surr)      | 97        |           | 80 - 120 | 06/26/19 16:40 | 06/28/19 20:15 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Client Sample ID: TripBlank1-20190626

Date Collected: 06/26/19 00:01

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-1

Matrix: Solid

| Analyte                      | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Ethylene Dibromide           | ND        |           | 1.0      | 1.0 | ug/Kg |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| Methyl tert-butyl ether      | ND        |           | 2.0      | 2.0 | ug/Kg |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121       |           | 80 - 121 |     |       |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |
| Trifluorotoluene (Surr)      | 102       |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 19:58 | 1       |

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte                      | Result    | Qualifier | RL       | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Ethylene Dibromide           | ND        |           | 0.86     | 0.86 | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| Methyl tert-butyl ether      | ND        |           | 1.7      | 1.7  | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 122       | X         | 80 - 121 |      |       |   | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 21:37 | 1       |
| Trifluorotoluene (Surr)      | 98        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 21:37 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte                      | Result    | Qualifier | RL       | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Ethylene Dibromide           | ND        |           | 0.96     | 0.96 | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| Methyl tert-butyl ether      | ND        |           | 1.9      | 1.9  | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 122       | X         | 80 - 121 |      |       |   | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:02 | 1       |
| Trifluorotoluene (Surr)      | 99        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:02 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte                      | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Ethylene Dibromide           | ND        |           | 1.1      | 1.1 | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| Methyl tert-butyl ether      | ND        |           | 2.2      | 2.2 | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121       |           | 80 - 121 |     |       |   | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 22:26 | 1       |
| Trifluorotoluene (Surr)      | 101       |           | 80 - 120 |     |       |   | 06/26/19 16:40 | 07/10/19 22:26 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte                      | Result    | Qualifier | RL       | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|-------|---|----------------|----------------|---------|
| Ethylene Dibromide           | ND        |           | 0.89     | 0.89 | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| Methyl tert-butyl ether      | ND        |           | 1.8      | 1.8  | ug/Kg | ☼ | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 80 - 121 |      |       |   | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:51 | 1       |
| Trifluorotoluene (Surr)      | 102       |           | 80 - 120 |      |       |   | 06/26/19 16:40 | 07/10/19 22:51 | 1       |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 2400   |           | 11  | 11  | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| Chrysene               | 2600   |           | 110 | 110 | ug/Kg | ☼ | 07/09/19 09:10 | 07/10/19 11:30 | 10      |
| Benzo[b]fluoranthene   | 3000   |           | 110 | 110 | ug/Kg | ☼ | 07/09/19 09:10 | 07/10/19 11:30 | 10      |
| Benzo[k]fluoranthene   | 1100   |           | 11  | 11  | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| Benzo[a]pyrene         | 1900   |           | 11  | 11  | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| Indeno[1,2,3-cd]pyrene | 1300   |           | 11  | 11  | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| Dibenz(a,h)anthracene  | 470    |           | 11  | 11  | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 12:33 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 116       |           | 61 - 136 | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| p-Terphenyl-d14         | 108       |           | 61 - 136 | 07/09/19 09:10 | 07/10/19 11:30 | 10      |
| Nitrobenzene-d5         | 91        |           | 31 - 120 | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| Nitrobenzene-d5         | 86        |           | 31 - 120 | 07/09/19 09:10 | 07/10/19 11:30 | 10      |
| 2-Fluorobiphenyl (Surr) | 98        |           | 46 - 120 | 07/09/19 09:10 | 07/09/19 12:33 | 1       |
| 2-Fluorobiphenyl (Surr) | 93        |           | 46 - 120 | 07/09/19 09:10 | 07/10/19 11:30 | 10      |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Chrysene               | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Benzo[a]pyrene         | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:00 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 118       |           | 61 - 136 | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| Nitrobenzene-d5         | 86        |           | 31 - 120 | 07/09/19 09:10 | 07/09/19 13:00 | 1       |
| 2-Fluorobiphenyl (Surr) | 96        |           | 46 - 120 | 07/09/19 09:10 | 07/09/19 13:00 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:26 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 115       |           | 61 - 136 | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| Nitrobenzene-d5         | 83        |           | 31 - 120 | 07/09/19 09:10 | 07/09/19 13:26 | 1       |
| 2-Fluorobiphenyl (Surr) | 94        |           | 46 - 120 | 07/09/19 09:10 | 07/09/19 13:26 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte                | Result | Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Chrysene               | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.091 | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:10 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 99        |           | 51 - 121 | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| Nitrobenzene-d5         | 91        |           | 36 - 126 | 07/02/19 10:14 | 07/03/19 00:10 | 1       |
| 2-Fluorobiphenyl (Surr) | 88        |           | 44 - 120 | 07/02/19 10:14 | 07/03/19 00:10 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                | Result | Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Chrysene               | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.093 | 0.093 | ug/L |   | 07/02/19 10:14 | 07/03/19 00:37 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 96        |           | 51 - 121 | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| Nitrobenzene-d5         | 86        |           | 36 - 126 | 07/02/19 10:14 | 07/03/19 00:37 | 1       |
| 2-Fluorobiphenyl (Surr) | 81        |           | 44 - 120 | 07/02/19 10:14 | 07/03/19 00:37 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Chrysene               | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Benzo[a]pyrene         | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/09/19 09:10 | 07/09/19 13:52 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 108       |           | 61 - 136 | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| Nitrobenzene-d5         | 75        |           | 31 - 120 | 07/09/19 09:10 | 07/09/19 13:52 | 1       |
| 2-Fluorobiphenyl (Surr) | 88        |           | 46 - 120 | 07/09/19 09:10 | 07/09/19 13:52 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte                 | Result    | Qualifier | RL       | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene      | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Chrysene                | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Benzo[b]fluoranthene    | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Benzo[k]fluoranthene    | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Benzo[a]pyrene          | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Indeno[1,2,3-cd]pyrene  | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Dibenz(a,h)anthracene   | ND        |           | 0.091    | 0.091 | ug/L |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Surrogate               | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| p-Terphenyl-d14         | 90        |           | 51 - 121 |       |      |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| Nitrobenzene-d5         | 81        |           | 36 - 126 |       |      |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |
| 2-Fluorobiphenyl (Surr) | 77        |           | 44 - 120 |       |      |   | 07/02/19 10:14 | 07/03/19 01:03 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: TripBlank1-20190626

Date Collected: 06/26/19 00:01

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-1

Matrix: Solid

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.0      | 5.0 | mg/Kg | — | 07/02/19 08:50 | 07/02/19 13:08 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 100       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 13:08 | 1       |

Client Sample ID: TripBlank2-20190626

Date Collected: 06/26/19 00:01

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-2

Matrix: Water

| Analyte                        | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 0.25     | 0.25 | mg/L | — |          | 07/01/19 16:12 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 107       |           | 50 - 150 |      |      |   |          | 07/01/19 16:12 | 1       |
| Trifluorotoluene (Surr)        | 116       |           | 50 - 150 |      |      |   |          | 07/01/19 16:12 | 1       |

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.2      | 5.2 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 14:02 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 103       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 14:02 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.9      | 5.9 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 14:56 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 96        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 14:56 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.5      | 5.5 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 15:23 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 98        |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 15:23 | 1       |

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte                        | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 0.25     | 0.25 | mg/L | — |          | 06/28/19 20:53 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 91        |           | 50 - 150 |      |      |   |          | 06/28/19 20:53 | 1       |
| Trifluorotoluene (Surr)        | 107       |           | 50 - 150 |      |      |   |          | 06/28/19 20:53 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                        | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 0.25     | 0.25 | mg/L | — |          | 06/28/19 21:20 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 97        |           | 50 - 150 |      |      |   |          | 06/28/19 21:20 | 1       |
| Trifluorotoluene (Surr)        | 105       |           | 50 - 150 |      |      |   |          | 06/28/19 21:20 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte                        | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 5.1      | 5.1 | mg/Kg | ☼ | 07/02/19 08:50 | 07/02/19 15:50 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 107       |           | 50 - 150 |     |       |   | 07/02/19 08:50 | 07/02/19 15:50 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte                        | Result    | Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |           | 0.25     | 0.25 | mg/L | — |          | 06/28/19 21:47 | 1       |
| Surrogate                      | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 102       |           | 50 - 150 |      |      |   |          | 06/28/19 21:47 | 1       |
| Trifluorotoluene (Surr)        | 107       |           | 50 - 150 |      |      |   |          | 06/28/19 21:47 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8011 - EDB and DBCP in Water by Microextraction

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte            | Result    | Qualifier | RL       | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND        |           | 0.010    | 0.010 | ug/L | — | 07/09/19 14:57 | 07/10/19 19:42 | 1       |
| Surrogate          | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dibromopropane | 96        |           | 60 - 140 |       |      |   | 07/09/19 14:57 | 07/10/19 19:42 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte            | Result    | Qualifier | RL       | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND        |           | 0.020    | 0.020 | ug/L | — | 07/09/19 14:57 | 07/10/19 19:59 | 1       |
| Surrogate          | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dibromopropane | 95        |           | 60 - 140 |       |      |   | 07/09/19 14:57 | 07/10/19 19:59 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte            | Result    | Qualifier | RL       | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|--------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND        |           | 0.0099   | 0.0099 | ug/L | — | 07/09/19 14:57 | 07/10/19 23:03 | 1       |
| Surrogate          | %Recovery | Qualifier | Limits   |        |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dibromopropane | 95        |           | 60 - 140 |        |      |   | 07/09/19 14:57 | 07/10/19 23:03 | 1       |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1221 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1232 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1242 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1248 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1254 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| PCB-1260 | ND     |           | 10 | 10 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:00 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 65        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 20:00 | 1       |
| DCB Decachlorobiphenyl (Surr) | 129       | p         | 20 - 150 | 07/10/19 09:18 | 07/10/19 20:00 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1221 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1232 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1242 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1248 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1254 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| PCB-1260 | ND     |           | 12 | 12 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:21 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 91        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 20:21 | 1       |
| DCB Decachlorobiphenyl (Surr) | 90        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 20:21 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte  | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1221 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1232 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1242 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1248 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1254 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| PCB-1260 | ND     |           | 11 | 11 | ug/Kg | ☼ | 07/10/19 09:18 | 07/10/19 20:41 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 75        |           | 31 - 142 | 07/10/19 09:18 | 07/10/19 20:41 | 1       |
| DCB Decachlorobiphenyl (Surr) | 71        |           | 20 - 150 | 07/10/19 09:18 | 07/10/19 20:41 | 1       |

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.10 | 0.062 | ug/L | — | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| PCB-1221 | ND     |           | 0.10 | 0.062 | ug/L | — | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| PCB-1232 | ND     |           | 0.10 | 0.062 | ug/L | — | 07/11/19 10:34 | 07/11/19 15:04 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte                       | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1242                      | ND        |           | 0.10     | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| PCB-1248                      | ND        |           | 0.10     | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| PCB-1254                      | ND        |           | 0.10     | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| PCB-1260                      | ND        |           | 0.10     | 0.044 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene          | 59        |           | 20 - 126 |       |      |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |
| DCB Decachlorobiphenyl (Surr) | 79        |           | 23 - 138 |       |      |   | 07/11/19 10:34 | 07/11/19 15:04 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                       | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1221                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1232                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1242                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1248                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1254                      | ND        |           | 0.10     | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| PCB-1260                      | ND        |           | 0.10     | 0.044 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene          | 57        |           | 20 - 126 |       |      |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |
| DCB Decachlorobiphenyl (Surr) | 82        |           | 23 - 138 |       |      |   | 07/11/19 10:34 | 07/11/19 15:25 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte                       | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| PCB-1016                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1221                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1232                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1242                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1248                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1254                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| PCB-1260                      | ND        |           | 10       | 10 | ug/Kg | ✱ | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Tetrachloro-m-xylene          | 84        |           | 31 - 142 |    |       |   | 07/10/19 09:18 | 07/10/19 21:02 | 1       |
| DCB Decachlorobiphenyl (Surr) | 80        |           | 20 - 150 |    |       |   | 07/10/19 09:18 | 07/10/19 21:02 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| PCB-1221 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| PCB-1232 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| PCB-1242 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| PCB-1248 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| PCB-1254 | ND     |           | 0.10 | 0.063 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: MTA-B07-14-20190626

Lab Sample ID: 580-87205-9

Date Collected: 06/26/19 11:33

Matrix: Water

Date Received: 06/26/19 14:14

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1260 | ND     |           | 0.10 | 0.044 | ug/L |   | 07/11/19 10:34 | 07/11/19 15:45 | 1       |

| Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 56        |           | 20 - 126 | 07/11/19 10:34 | 07/11/19 15:45 | 1       |
| DCB Decachlorobiphenyl (Surr) | 87        |           | 23 - 138 | 07/11/19 10:34 | 07/11/19 15:45 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | 45        |           | 10       | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 05:26 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | 130       |           | 26       | 26 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 05:26 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 97        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 05:26 | 1       |
| <i>n</i> -Triacontane-d62                  | 91        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 05:26 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 12       | 12 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 05:46 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 29       | 29 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 05:46 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 87        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 05:46 | 1       |
| <i>n</i> -Triacontane-d62                  | 86        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 05:46 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 10       | 10 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 06:06 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 25       | 25 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 06:06 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 90        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 06:06 | 1       |
| <i>n</i> -Triacontane-d62                  | 96        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 06:06 | 1       |

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte                                    | Result    | Qualifier | RL       | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 0.24     | 0.24 | mg/L | — | 07/10/19 10:09 | 07/11/19 01:47 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 0.40     | 0.40 | mg/L | — | 07/10/19 10:09 | 07/11/19 01:47 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 80        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 01:47 | 1       |
| <i>n</i> -Triacontane-d62                  | 79        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 01:47 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                                  | Result | Qualifier | RL   | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25) | ND     |           | 0.24 | 0.24 | mg/L | — | 07/10/19 10:09 | 07/11/19 02:07 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte                                    | Result    | Qualifier | RL       | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 0.40     | 0.40 | mg/L | — | 07/10/19 10:09 | 07/11/19 02:07 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 85        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 02:07 | 1       |
| <i>n</i> -Triacontane-d62                  | 81        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 02:07 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte                                    | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 11       | 11 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 06:26 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 27       | 27 | mg/Kg | ☼ | 07/09/19 10:00 | 07/10/19 06:26 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 81        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 06:26 | 1       |
| <i>n</i> -Triacontane-d62                  | 86        |           | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 06:26 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte                                    | Result    | Qualifier | RL       | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)<br>(C10-C25)   | ND        |           | 0.24     | 0.24 | mg/L | — | 07/10/19 10:09 | 07/11/19 02:26 | 1       |
| Residual Range Organics (RRO)<br>(C25-C36) | ND        |           | 0.40     | 0.40 | mg/L | — | 07/10/19 10:09 | 07/11/19 02:26 | 1       |
| Surrogate                                  | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl                        | 81        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 02:26 | 1       |
| <i>n</i> -Triacontane-d62                  | 76        |           | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 02:26 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 6010C - Metals (ICP)

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.4  | 2.4  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Barium   | 64     |           | 0.41 | 0.41 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Cadmium  | ND     |           | 0.81 | 0.81 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Chromium | 57     |           | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Lead     | 130    |           | 1.2  | 1.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:43 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.8  | 2.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Barium   | 56     |           | 0.47 | 0.47 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Cadmium  | 0.95   |           | 0.94 | 0.94 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Chromium | 77     |           | 1.2  | 1.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Lead     | 7.7    |           | 1.4  | 1.4  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Selenium | ND     |           | 4.7  | 4.7  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |
| Silver   | ND     |           | 2.4  | 2.4  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:46 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.3  | 2.3  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Barium   | 33     |           | 0.38 | 0.38 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Cadmium  | ND     |           | 0.77 | 0.77 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Chromium | 63     |           | 1.0  | 1.0  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Lead     | 9.3    |           | 1.2  | 1.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Selenium | ND     |           | 3.8  | 3.8  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |
| Silver   | ND     |           | 1.9  | 1.9  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:50 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 2.5  | 2.5  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Barium   | 33     |           | 0.41 | 0.41 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Cadmium  | ND     |           | 0.82 | 0.82 | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Chromium | 54     | F1 F2     | 1.1  | 1.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Lead     | ND     |           | 1.2  | 1.2  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |
| Silver   | ND     |           | 2.1  | 2.1  | mg/Kg | ☼ | 07/02/19 11:41 | 07/03/19 10:13 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 6020A - Metals (ICP/MS) - Dissolved

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte  | Result | Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Barium   | ND     |           | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Cadmium  | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Chromium | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Lead     | ND     |           | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Selenium | ND     |           | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |
| Silver   | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:18 | 5       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte  | Result | Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Barium   | ND     |           | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Cadmium  | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Chromium | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Lead     | ND     |           | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Selenium | ND     |           | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |
| Silver   | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:22 | 5       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte  | Result | Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Barium   | ND     |           | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Cadmium  | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Chromium | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Lead     | ND     |           | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Selenium | ND     |           | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |
| Silver   | ND     |           | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 17:35 | 5       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: MTA-B02-14-20190626

Date Collected: 06/26/19 09:40

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-6

Matrix: Water

| Analyte | Result | Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00030 | 0.00030 | mg/L | — | 07/08/19 08:39 | 07/08/19 17:16 | 1       |

Client Sample ID: MTA-B99-20190626

Date Collected: 06/26/19 09:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-7

Matrix: Water

| Analyte | Result | Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00030 | 0.00030 | mg/L | — | 07/08/19 08:39 | 07/08/19 17:21 | 1       |

Client Sample ID: MTA-B07-14-20190626

Date Collected: 06/26/19 11:33

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-9

Matrix: Water

| Analyte | Result | Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.00030 | 0.00030 | mg/L | — | 07/08/19 08:39 | 07/08/19 17:18 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

Percent Solids: 93.4

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.044  |           | 0.025 | 0.025 | mg/Kg | ☼ | 07/08/19 09:59 | 07/08/19 15:12 | 1       |

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.037  |           | 0.030 | 0.030 | mg/Kg | ☼ | 07/08/19 09:59 | 07/08/19 15:19 | 1       |

Client Sample ID: MTA-B02(5.5-6.5)-20190626

Date Collected: 06/26/19 09:30

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-5

Matrix: Solid

Percent Solids: 94.1

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.026 | 0.026 | mg/Kg | ☼ | 07/08/19 09:59 | 07/08/19 15:21 | 1       |

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Date Collected: 06/26/19 10:55

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-8

Matrix: Solid

Percent Solids: 92.6

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.025 | 0.025 | mg/Kg | ☼ | 07/08/19 09:59 | 07/08/19 15:23 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-304262/7

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB Result | MB Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane      | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Benzene                 | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Ethylbenzene            | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Methyl tert-butyl ether | ND        |              | 0.30 | 0.30 | ug/L |   |          | 06/27/19 23:48 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 0.50 | 0.50 | ug/L |   |          | 06/27/19 23:48 | 1       |
| o-Xylene                | ND        |              | 0.50 | 0.50 | ug/L |   |          | 06/27/19 23:48 | 1       |
| Toluene                 | ND        |              | 0.20 | 0.20 | ug/L |   |          | 06/27/19 23:48 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Dibromofluoromethane (Surr)  | 105          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Toluene-d8 (Surr)            | 103          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |
| Trifluorotoluene (Surr)      | 100          |              | 80 - 120 |          | 06/27/19 23:48 | 1       |

Lab Sample ID: LCS 580-304262/4

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichloroethane      | 5.00        | 4.82       |               | ug/L |   | 96   | 74 - 130     |
| Benzene                 | 5.00        | 4.80       |               | ug/L |   | 96   | 73 - 133     |
| Ethylbenzene            | 5.00        | 4.62       |               | ug/L |   | 92   | 80 - 130     |
| Methyl tert-butyl ether | 5.00        | 5.06       |               | ug/L |   | 101  | 60 - 150     |
| m-Xylene & p-Xylene     | 5.00        | 4.66       |               | ug/L |   | 93   | 78 - 130     |
| o-Xylene                | 5.00        | 4.69       |               | ug/L |   | 94   | 80 - 139     |
| Toluene                 | 5.00        | 4.74       |               | ug/L |   | 95   | 80 - 126     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 99            |               | 80 - 120 |
| Toluene-d8 (Surr)            | 101           |               | 80 - 120 |
| Trifluorotoluene (Surr)      | 102           |               | 80 - 120 |

Lab Sample ID: LCSD 580-304262/5

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                 | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,2-Dichloroethane      | 5.00        | 4.97        |                | ug/L |   | 99   | 74 - 130     | 3   | 15        |
| Benzene                 | 5.00        | 4.95        |                | ug/L |   | 99   | 73 - 133     | 3   | 20        |
| Ethylbenzene            | 5.00        | 4.68        |                | ug/L |   | 94   | 80 - 130     | 1   | 20        |
| Methyl tert-butyl ether | 5.00        | 5.48        |                | ug/L |   | 110  | 60 - 150     | 8   | 25        |
| m-Xylene & p-Xylene     | 5.00        | 4.74        |                | ug/L |   | 95   | 78 - 130     | 2   | 20        |
| o-Xylene                | 5.00        | 4.73        |                | ug/L |   | 95   | 80 - 139     | 1   | 20        |
| Toluene                 | 5.00        | 4.80        |                | ug/L |   | 96   | 80 - 126     | 1   | 20        |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-304262/5

Matrix: Water

Analysis Batch: 304262

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

|                              | LCSD      | LCSD      |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |
| Trifluorotoluene (Surr)      | 97        |           | 80 - 120 |

Lab Sample ID: MB 580-304537/7

Matrix: Water

Analysis Batch: 304537

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB     | MB        | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
|                         | Result | Qualifier |      |      |      |   |          |                |         |
| 1,2-Dichloroethane      | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:16 | 1       |
| Benzene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:16 | 1       |
| Ethylbenzene            | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:16 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.30 | 0.30 | ug/L |   |          | 07/01/19 17:16 | 1       |
| m-Xylene & p-Xylene     | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 17:16 | 1       |
| o-Xylene                | ND     |           | 0.50 | 0.50 | ug/L |   |          | 07/01/19 17:16 | 1       |
| Toluene                 | ND     |           | 0.20 | 0.20 | ug/L |   |          | 07/01/19 17:16 | 1       |

|                              | MB        | MB        |          |          |                |         |  |  |  |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|--|--|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |  |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 80 - 120 |          | 07/01/19 17:16 | 1       |  |  |  |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 07/01/19 17:16 | 1       |  |  |  |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 07/01/19 17:16 | 1       |  |  |  |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 07/01/19 17:16 | 1       |  |  |  |
| Trifluorotoluene (Surr)      | 99        |           | 80 - 120 |          | 07/01/19 17:16 | 1       |  |  |  |

Lab Sample ID: LCS 580-304537/4

Matrix: Water

Analysis Batch: 304537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec.    |
|-------------------------|-------|--------|-----------|------|---|------|----------|
|                         | Added | Result | Qualifier |      |   |      | Limits   |
| 1,2-Dichloroethane      | 5.00  | 5.11   |           | ug/L |   | 102  | 74 - 130 |
| Benzene                 | 5.00  | 4.80   |           | ug/L |   | 96   | 73 - 133 |
| Ethylbenzene            | 5.00  | 4.48   |           | ug/L |   | 90   | 80 - 130 |
| Methyl tert-butyl ether | 5.00  | 5.43   |           | ug/L |   | 109  | 60 - 150 |
| m-Xylene & p-Xylene     | 5.00  | 4.50   |           | ug/L |   | 90   | 78 - 130 |
| o-Xylene                | 5.00  | 4.61   |           | ug/L |   | 92   | 80 - 139 |
| Toluene                 | 5.00  | 4.57   |           | ug/L |   | 91   | 80 - 126 |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 103       |           | 80 - 120 |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |
| Trifluorotoluene (Surr)      | 91        |           | 80 - 120 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-304537/5

Matrix: Water

Analysis Batch: 304537

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                 | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,2-Dichloroethane      | 5.00        | 5.05        |                | ug/L |   | 101  | 74 - 130     | 1   | 15        |
| Benzene                 | 5.00        | 4.84        |                | ug/L |   | 97   | 73 - 133     | 1   | 20        |
| Ethylbenzene            | 5.00        | 4.45        |                | ug/L |   | 89   | 80 - 130     | 1   | 20        |
| Methyl tert-butyl ether | 5.00        | 5.28        |                | ug/L |   | 106  | 60 - 150     | 3   | 25        |
| m-Xylene & p-Xylene     | 5.00        | 4.50        |                | ug/L |   | 90   | 78 - 130     | 0   | 20        |
| o-Xylene                | 5.00        | 4.55        |                | ug/L |   | 91   | 80 - 139     | 1   | 20        |
| Toluene                 | 5.00        | 4.53        |                | ug/L |   | 91   | 80 - 126     | 1   | 20        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 106            |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100            |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 103            |                | 80 - 120 |
| Toluene-d8 (Surr)            | 96             |                | 80 - 120 |
| Trifluorotoluene (Surr)      | 93             |                | 80 - 120 |

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-304325/1-A

Matrix: Solid

Analysis Batch: 304327

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304325

| Analyte             | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane  | ND        |              | 1.0 | 1.0 | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Benzene             | ND        |              | 2.0 | 2.0 | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Ethylbenzene        | ND        |              | 2.0 | 2.0 | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| m-Xylene & p-Xylene | ND        |              | 10  | 10  | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| o-Xylene            | ND        |              | 5.0 | 5.0 | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Toluene             | ND        |              | 10  | 10  | ug/Kg |   | 06/28/19 12:35 | 06/28/19 14:29 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96           |              | 80 - 121 | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97           |              | 80 - 120 | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Dibromofluoromethane (Surr)  | 92           |              | 80 - 120 | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Toluene-d8 (Surr)            | 107          |              | 80 - 120 | 06/28/19 12:35 | 06/28/19 14:29 | 1       |
| Trifluorotoluene (Surr)      | 112          |              | 80 - 120 | 06/28/19 12:35 | 06/28/19 14:29 | 1       |

Lab Sample ID: LCS 580-304325/2-A

Matrix: Solid

Analysis Batch: 304327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304325

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dichloroethane  | 20.0        | 17.6       |               | ug/Kg |   | 88   | 68 - 132     |
| Benzene             | 20.0        | 18.2       |               | ug/Kg |   | 91   | 72 - 135     |
| Ethylbenzene        | 20.0        | 19.1       |               | ug/Kg |   | 96   | 80 - 135     |
| m-Xylene & p-Xylene | 20.0        | 18.5       |               | ug/Kg |   | 93   | 80 - 132     |
| o-Xylene            | 20.0        | 18.3       |               | ug/Kg |   | 91   | 80 - 125     |
| Toluene             | 20.0        | 18.1       |               | ug/Kg |   | 91   | 75 - 137     |

Eurofins TestAmerica, Seattle



# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-304325/2-A

Matrix: Solid

Analysis Batch: 304327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304325

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 80 - 120 |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |
| Trifluorotoluene (Surr)      | 106       |           | 80 - 120 |

Lab Sample ID: LCSD 580-304325/3-A

Matrix: Solid

Analysis Batch: 304327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304325

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,2-Dichloroethane  | 20.0        | 15.2        |                | ug/Kg |   | 76   | 68 - 132     | 15  | 17        |
| Benzene             | 20.0        | 16.3        |                | ug/Kg |   | 82   | 72 - 135     | 11  | 15        |
| Ethylbenzene        | 20.0        | 17.6        |                | ug/Kg |   | 88   | 80 - 135     | 9   | 16        |
| m-Xylene & p-Xylene | 20.0        | 16.9        |                | ug/Kg |   | 85   | 80 - 132     | 9   | 20        |
| o-Xylene            | 20.0        | 16.3        |                | ug/Kg |   | 81   | 80 - 125     | 12  | 14        |
| Toluene             | 20.0        | 16.6        |                | ug/Kg |   | 83   | 75 - 137     | 9   | 20        |

|                              | LCSD      | LCSD      |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 89        |           | 80 - 120 |
| Dibromofluoromethane (Surr)  | 96        |           | 80 - 120 |
| Toluene-d8 (Surr)            | 104       |           | 80 - 120 |
| Trifluorotoluene (Surr)      | 107       |           | 80 - 120 |

Lab Sample ID: MB 580-305295/1-A

Matrix: Solid

Analysis Batch: 305302

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 305295

| Analyte                 | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2-Dichloroethane      | ND        |              | 1.0 | 1.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| Benzene                 | ND        |              | 2.0 | 2.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| Ethylbenzene            | ND        |              | 2.0 | 2.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| Ethylene Dibromide      | ND        |              | 1.0 | 1.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| Methyl tert-butyl ether | ND        |              | 2.0 | 2.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| m-Xylene & p-Xylene     | ND        |              | 10  | 10  | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| o-Xylene                | ND        |              | 5.0 | 5.0 | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |
| Toluene                 | ND        |              | 10  | 10  | ug/Kg |   | 07/10/19 16:40 | 07/10/19 19:33 | 1       |

|                              | MB        | MB        |          |                |                |         |  |  |  |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 80 - 121 | 07/10/19 16:40 | 07/10/19 19:33 | 1       |  |  |  |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 | 07/10/19 16:40 | 07/10/19 19:33 | 1       |  |  |  |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 | 07/10/19 16:40 | 07/10/19 19:33 | 1       |  |  |  |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 | 07/10/19 16:40 | 07/10/19 19:33 | 1       |  |  |  |
| Trifluorotoluene (Surr)      | 103       |           | 80 - 120 | 07/10/19 16:40 | 07/10/19 19:33 | 1       |  |  |  |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-305295/2-A

Matrix: Solid

Analysis Batch: 305302

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305295

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dichloroethane      | 20.0        | 23.2       |               | ug/Kg |   | 116  | 68 - 132     |
| Benzene                 | 20.0        | 22.0       |               | ug/Kg |   | 110  | 72 - 135     |
| Ethylbenzene            | 20.0        | 20.8       |               | ug/Kg |   | 104  | 80 - 135     |
| Ethylene Dibromide      | 20.0        | 20.7       |               | ug/Kg |   | 103  | 77 - 123     |
| Methyl tert-butyl ether | 20.0        | 22.4       |               | ug/Kg |   | 112  | 68 - 132     |
| m-Xylene & p-Xylene     | 20.0        | 20.5       |               | ug/Kg |   | 103  | 80 - 132     |
| o-Xylene                | 20.0        | 20.8       |               | ug/Kg |   | 104  | 80 - 125     |
| Toluene                 | 20.0        | 19.8       |               | ug/Kg |   | 99   | 75 - 137     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 106           |               | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 94            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 105           |               | 80 - 120 |
| Toluene-d8 (Surr)            | 95            |               | 80 - 120 |
| Trifluorotoluene (Surr)      | 100           |               | 80 - 120 |

Lab Sample ID: LCSD 580-305295/3-A

Matrix: Solid

Analysis Batch: 305302

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 305295

| Analyte                 | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| 1,2-Dichloroethane      | 20.0        | 20.6        |                | ug/Kg |   | 103  | 68 - 132     | 12  | 17    |
| Benzene                 | 20.0        | 19.4        |                | ug/Kg |   | 97   | 72 - 135     | 12  | 15    |
| Ethylbenzene            | 20.0        | 18.7        |                | ug/Kg |   | 94   | 80 - 135     | 11  | 16    |
| Ethylene Dibromide      | 20.0        | 18.7        |                | ug/Kg |   | 93   | 77 - 123     | 10  | 20    |
| Methyl tert-butyl ether | 20.0        | 18.5        |                | ug/Kg |   | 92   | 68 - 132     | 19  | 25    |
| m-Xylene & p-Xylene     | 20.0        | 18.6        |                | ug/Kg |   | 93   | 80 - 132     | 10  | 20    |
| o-Xylene                | 20.0        | 18.5        |                | ug/Kg |   | 92   | 80 - 125     | 12  | 14    |
| Toluene                 | 20.0        | 18.1        |                | ug/Kg |   | 90   | 75 - 137     | 9   | 20    |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 104            |                | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 95             |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 101            |                | 80 - 120 |
| Toluene-d8 (Surr)            | 100            |                | 80 - 120 |
| Trifluorotoluene (Surr)      | 103            |                | 80 - 120 |

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-22845/1-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22845

| Analyte              | MB Result | MB Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]anthracene   | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Chrysene             | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Benzo[b]fluoranthene | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Benzo[k]fluoranthene | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-22845/1-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | MB Result | MB Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Benzo[a]pyrene         | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 0.090 | 0.090 | ug/L |   | 07/02/19 10:14 | 07/02/19 22:24 | 1       |

| Surrogate               | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 114          |              | 51 - 121 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| Nitrobenzene-d5         | 102          |              | 36 - 126 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |
| 2-Fluorobiphenyl (Surr) | 88           |              | 44 - 120 | 07/02/19 10:14 | 07/02/19 22:24 | 1       |

Lab Sample ID: LCS 590-22845/2-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzo[a]anthracene     | 1.60        | 1.33       |               | ug/L |   | 83   | 68 - 120     |
| Chrysene               | 1.60        | 1.36       |               | ug/L |   | 85   | 69 - 120     |
| Benzo[b]fluoranthene   | 1.60        | 1.23       |               | ug/L |   | 77   | 63 - 120     |
| Benzo[k]fluoranthene   | 1.60        | 1.44       |               | ug/L |   | 90   | 67 - 120     |
| Benzo[a]pyrene         | 1.60        | 1.31       |               | ug/L |   | 82   | 70 - 120     |
| Indeno[1,2,3-cd]pyrene | 1.60        | 1.28       |               | ug/L |   | 80   | 58 - 120     |
| Dibenz(a,h)anthracene  | 1.60        | 1.24       |               | ug/L |   | 78   | 58 - 120     |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| p-Terphenyl-d14         | 97            |               | 51 - 121 |
| Nitrobenzene-d5         | 91            |               | 36 - 126 |
| 2-Fluorobiphenyl (Surr) | 74            |               | 44 - 120 |

Lab Sample ID: LCSD 590-22845/3-A

Matrix: Water

Analysis Batch: 22857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22845

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-------|
| Benzo[a]anthracene     | 1.60        | 1.31        |                | ug/L |   | 82   | 68 - 120     | 2   | 30    |
| Chrysene               | 1.60        | 1.33        |                | ug/L |   | 83   | 69 - 120     | 2   | 24    |
| Benzo[b]fluoranthene   | 1.60        | 1.17        |                | ug/L |   | 73   | 63 - 120     | 5   | 30    |
| Benzo[k]fluoranthene   | 1.60        | 1.40        |                | ug/L |   | 87   | 67 - 120     | 3   | 30    |
| Benzo[a]pyrene         | 1.60        | 1.26        |                | ug/L |   | 79   | 70 - 120     | 4   | 30    |
| Indeno[1,2,3-cd]pyrene | 1.60        | 1.22        |                | ug/L |   | 76   | 58 - 120     | 5   | 30    |
| Dibenz(a,h)anthracene  | 1.60        | 1.24        |                | ug/L |   | 77   | 58 - 120     | 0   | 30    |

| Surrogate               | LCSD %Recovery | LCSD Qualifier | Limits   |
|-------------------------|----------------|----------------|----------|
| p-Terphenyl-d14         | 88             |                | 51 - 121 |
| Nitrobenzene-d5         | 83             |                | 36 - 126 |
| 2-Fluorobiphenyl (Surr) | 68             |                | 44 - 120 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-22912/1-A

Matrix: Solid

Analysis Batch: 22917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22912

| Analyte                | MB Result | MB Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Chrysene               | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Benzo[a]pyrene         | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 10 | 10 | ug/Kg |   | 07/09/19 09:10 | 07/09/19 11:40 | 1       |

| Surrogate               | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| p-Terphenyl-d14         | 124          |              | 61 - 136 | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| Nitrobenzene-d5         | 91           |              | 31 - 120 | 07/09/19 09:10 | 07/09/19 11:40 | 1       |
| 2-Fluorobiphenyl (Surr) | 95           |              | 46 - 120 | 07/09/19 09:10 | 07/09/19 11:40 | 1       |

Lab Sample ID: LCS 590-22912/2-A

Matrix: Solid

Analysis Batch: 22917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22912

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzo[a]anthracene     | 267         | 293        |               | ug/Kg |   | 110  | 61 - 125     |
| Chrysene               | 267         | 292        |               | ug/Kg |   | 109  | 57 - 127     |
| Benzo[b]fluoranthene   | 267         | 266        |               | ug/Kg |   | 100  | 59 - 127     |
| Benzo[k]fluoranthene   | 267         | 273        |               | ug/Kg |   | 102  | 63 - 127     |
| Benzo[a]pyrene         | 267         | 261        |               | ug/Kg |   | 98   | 60 - 120     |
| Indeno[1,2,3-cd]pyrene | 267         | 270        |               | ug/Kg |   | 101  | 55 - 128     |
| Dibenz(a,h)anthracene  | 267         | 272        |               | ug/Kg |   | 102  | 60 - 128     |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| p-Terphenyl-d14         | 127           |               | 61 - 136 |
| Nitrobenzene-d5         | 100           |               | 31 - 120 |
| 2-Fluorobiphenyl (Surr) | 103           |               | 46 - 120 |

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-304451/12

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                        | MB Result | MB Qualifier | RL   | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |              | 0.25 | 0.25 | mg/L |   |          | 06/28/19 14:07 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 50 - 150 |          | 06/28/19 14:07 | 1       |
| Trifluorotoluene (Surr)     | 115          |              | 50 - 150 |          | 06/28/19 14:07 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-304451/13

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                        | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------|---------------|---------------|---------------|------|---|------|--------------|
| Gasoline Range Organics C6-C12 | 1.00          | 0.905         |               | mg/L |   | 90   | 79 - 120     |
|                                |               |               |               |      |   |      |              |
| Surrogate                      | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 4-Bromofluorobenzene (Surr)    | 107           |               | 50 - 150      |      |   |      |              |
| Trifluorotoluene (Surr)        | 112           |               | 50 - 150      |      |   |      |              |

Lab Sample ID: LCSD 580-304451/14

Matrix: Water

Analysis Batch: 304451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

|                                   |                   |                   | Spike    | LCSD   | LCSD      |      |   |      | %Rec.    | RPD |       |
|-----------------------------------|-------------------|-------------------|----------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte                           |                   |                   | Added    | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics<br>C6-C12 |                   |                   | 1.00     | 0.879  |           | mg/L | - | 88   | 79 - 120 | 3   | 10    |
| Surrogate                         | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |        |           |      |   |      |          |     |       |
| 4-Bromofluorobenzene (Surr)       | 107               |                   | 50 - 150 |        |           |      |   |      |          |     |       |
| Trifluorotoluene (Surr)           | 111               |                   | 50 - 150 |        |           |      |   |      |          |     |       |

Lab Sample ID: MB 580-304482/5

Matrix: Water

Analysis Batch: 304482

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                        | MB Result | MB Qualifier | RL       | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|--------------|----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND        |              | 0.25     | 0.25 | mg/L | - |          | 07/01/19 10:04 | 1       |
| Surrogate                      | %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)    | 112       |              | 50 - 150 |      |      |   |          | 07/01/19 10:04 | 1       |
| Trifluorotoluene (Surr)        | 118       |              | 50 - 150 |      |      |   |          | 07/01/19 10:04 | 1       |

Lab Sample ID: LCS 580-304482/6

Matrix: Water

Analysis Batch: 304482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                                |               |               |          | Spike  | LCS       | LCS  |   |      |              |
|--------------------------------|---------------|---------------|----------|--------|-----------|------|---|------|--------------|
| Analyte                        |               |               | Added    | Result | Qualifier | Unit | D | %Rec | %Rec. Limits |
| Gasoline Range Organics C6-C12 |               |               | 1.00     | 0.876  |           | mg/L | — | 88   | 79 - 120     |
|                                |               |               |          |        |           |      |   |      |              |
| Surrogate                      | LCS %Recovery | LCS Qualifier | Limits   |        |           |      |   |      |              |
| 4-Bromofluorobenzene (Surr)    | 103           |               | 50 - 150 |        |           |      |   |      |              |
| Trifluorotoluene (Surr)        | 115           |               | 50 - 150 |        |           |      |   |      |              |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-304482/7

Matrix: Water

Analysis Batch: 304482

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                        | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| Gasoline Range Organics C6-C12 | 1.00           | 0.891          |                | mg/L | - | 89   | 79 - 120     | 2   | 10        |
| Surrogate                      | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr)    | 104            |                | 50 - 150       |      |   |      |              |     |           |
| Trifluorotoluene (Surr)        | 110            |                | 50 - 150       |      |   |      |              |     |           |

Lab Sample ID: MB 580-304581/1-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304581

| Analyte                        | MB Result    | MB Qualifier | RL       | RL             | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|--------------------------------|--------------|--------------|----------|----------------|----------------|---------|----------------|----------------|---------|
| Gasoline Range Organics C6-C12 | ND           |              | 5.0      | 5.0            | mg/Kg          | -       | 07/02/19 08:50 | 07/02/19 09:59 | 1       |
| Surrogate                      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |         |
| 4-Bromofluorobenzene (Surr)    | 100          |              | 50 - 150 | 07/02/19 08:50 | 07/02/19 09:59 | 1       |                |                |         |

Lab Sample ID: LCS 580-304581/2-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304581

| Analyte                        | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------|---------------|---------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics C6-C12 | 40.0          | 35.6          |               | mg/Kg | - | 89   | 80 - 120     |     |           |
| Surrogate                      | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr)    | 108           |               | 50 - 150      |       |   |      |              |     |           |

Lab Sample ID: LCSD 580-304581/3-A

Matrix: Solid

Analysis Batch: 304584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304581

| Analyte                        | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics C6-C12 | 40.0           | 35.9           |                | mg/Kg | - | 90   | 80 - 120     | 1   | 10        |
| Surrogate                      | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr)    | 106            |                | 50 - 150       |       |   |      |              |     |           |

## Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-305135/1-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | MB Result | MB Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Ethylene Dibromide | ND        |              | 0.010 | 0.010 | ug/L | - | 07/09/19 14:57 | 07/10/19 17:47 | 1       |

Eurofins TestAmerica, Seattle



# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: MB 580-305135/1-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 305135

| Surrogate          | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1,2-Dibromopropane | 86              |                 | 60 - 140 | 07/09/19 14:57 | 07/10/19 17:47 | 1       |

Lab Sample ID: LCS 580-305135/2-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|--------------------|------------------|------------------|------------------|------|---|------|----------|
| Ethylene Dibromide | 0.0587           | 0.0627           |                  | ug/L |   | 107  | 60 - 140 |
| Surrogate          | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |      |   |      |          |
| 1,2-Dibromopropane | 82               |                  | 60 - 140         |      |   |      |          |

Lab Sample ID: LCSD 580-305135/3-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
|--------------------|-------------------|-------------------|-------------------|------|---|------|----------|-----|-------|
| Ethylene Dibromide | 0.0578            | 0.0561            |                   | ug/L |   | 97   | 60 - 140 | 11  | 20    |
| Surrogate          | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |      |   |      |          |     |       |
| 1,2-Dibromopropane | 87                |                   | 60 - 140          |      |   |      |          |     |       |

Lab Sample ID: LLCS 580-305135/28-A

Matrix: Water

Analysis Batch: 305285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 305135

| Analyte            | Spike<br>Added    | LLCS<br>Result    | LLCS<br>Qualifier | Unit | D | %Rec | Limits   |
|--------------------|-------------------|-------------------|-------------------|------|---|------|----------|
| Ethylene Dibromide | 0.0117            | ND                |                   | ug/L |   | 85   | 60 - 140 |
| Surrogate          | LLCS<br>%Recovery | LLCS<br>Qualifier | Limits            |      |   |      |          |
| 1,2-Dibromopropane | 110               |                   | 60 - 140          |      |   |      |          |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 590-22942/1-A

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22942

| Analyte  | MB<br>Result | MB<br>Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|----|----|-------|---|----------------|----------------|---------|
| PCB-1016 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1221 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1232 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1242 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1248 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1254 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| PCB-1260 | ND           |                 | 10 | 10 | ug/Kg |   | 07/10/19 09:18 | 07/10/19 15:13 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 590-22942/1-A

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22942

| Surrogate                     | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 93              |                 | 31 - 142 | 07/10/19 09:18 | 07/10/19 15:13 | 1       |
| DCB Decachlorobiphenyl (Surr) | 103             |                 | 20 - 150 | 07/10/19 09:18 | 07/10/19 15:13 | 1       |

Lab Sample ID: LCS 590-22942/2-A

Matrix: Solid

Analysis Batch: 22957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22942

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| PCB-1016 | 66.7           | 65.1          |                  | ug/Kg |   | 98   | 63 - 127        |
| PCB-1260 | 66.7           | 67.1          |                  | ug/Kg |   | 101  | 63 - 128        |

| Surrogate                     | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-------------------------------|------------------|------------------|----------|
| Tetrachloro-m-xylene          | 92               |                  | 31 - 142 |
| DCB Decachlorobiphenyl (Surr) | 90               |                  | 20 - 150 |

Lab Sample ID: MB 590-22976/1-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22976

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1221 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1232 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1242 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1248 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1254 | ND           |                 | 0.10 | 0.062 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| PCB-1260 | ND           |                 | 0.10 | 0.043 | ug/L |   | 07/11/19 10:34 | 07/11/19 13:47 | 1       |

| Surrogate                     | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene          | 57              |                 | 20 - 126 | 07/11/19 10:34 | 07/11/19 13:47 | 1       |
| DCB Decachlorobiphenyl (Surr) | 76              |                 | 23 - 138 | 07/11/19 10:34 | 07/11/19 13:47 | 1       |

Lab Sample ID: LCS 590-22976/2-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22976

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| PCB-1016 | 1.60           | 1.30          |                  | ug/L |   | 81   | 51 - 120        |
| PCB-1260 | 1.60           | 1.17          |                  | ug/L |   | 73   | 42 - 120        |

| Surrogate                     | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-------------------------------|------------------|------------------|----------|
| Tetrachloro-m-xylene          | 58               |                  | 20 - 126 |
| DCB Decachlorobiphenyl (Surr) | 87               |                  | 23 - 138 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 590-22976/3-A

Matrix: Water

Analysis Batch: 22973

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22976

| Analyte                       | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------------|----------------|----------------|----------------|------|---|------|--------------|-----|-----------|
| PCB-1016                      | 1.60           | 1.20           |                | ug/L |   | 75   | 51 - 120     | 8   | 20        |
| PCB-1260                      | 1.60           | 1.14           |                | ug/L |   | 71   | 42 - 120     | 2   | 28        |
| Surrogate                     | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |              |     |           |
| Tetrachloro-m-xylene          | 49             |                | 20 - 126       |      |   |      |              |     |           |
| DCB Decachlorobiphenyl (Surr) | 78             |                | 23 - 138       |      |   |      |              |     |           |

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-22922/1-A

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                 | MB Result    | MB Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------------|--------------|----------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND           |              | 10       | 10 | mg/Kg |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND           |              | 25       | 25 | mg/Kg |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| Surrogate                               | MB %Recovery | MB Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                             | 85           |              | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |
| n-Triacontane-d62                       | 75           |              | 50 - 150 |    |       |   | 07/09/19 10:00 | 07/10/19 00:28 | 1       |

Lab Sample ID: LCS 590-22922/2-A

Matrix: Solid

Analysis Batch: 22915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22922

| Analyte                                    |                  |                  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |  |  |
|--------------------------------------------|------------------|------------------|----------------|---------------|------------------|-------|---|------|-----------------|--|--|
| Diesel Range Organics (DRO)<br>(C10-C25)   |                  |                  | 66.7           | 60.2          |                  | mg/Kg | - | 90   | 50 - 150        |  |  |
| Residual Range Organics (RRO)<br>(C25-C36) |                  |                  | 66.7           | 67.3          |                  | mg/Kg |   | 101  | 50 - 150        |  |  |
| Surrogate                                  | LCS<br>%Recovery | LCS<br>Qualifier | Limits         |               |                  |       |   |      |                 |  |  |
| o-Terphenyl                                | 98               |                  | 50 - 150       |               |                  |       |   |      |                 |  |  |
| n-Triacontane-d62                          | 99               |                  | 50 - 150       |               |                  |       |   |      |                 |  |  |

Lab Sample ID: MB 590-22950/1-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22950

| Analyte                                 | MB Result    | MB Qualifier | RL       | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|--------------|--------------|----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) (C10-C25)   | ND           |              | 0.24     | 0.24 | mg/L |   | 07/10/19 10:09 | 07/11/19 00:47 | 1       |
| Residual Range Organics (RRO) (C25-C36) | ND           |              | 0.40     | 0.40 | mg/L |   | 07/10/19 10:09 | 07/11/19 00:47 | 1       |
| Surrogate                               | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                             | 85           |              | 50 - 150 |      |      |   | 07/10/19 10:09 | 07/11/19 00:47 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 590-22950/1-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22950

| Surrogate         | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| n-Triacontane-d62 | 73              |                 | 50 - 150 | 07/10/19 10:09 | 07/11/19 00:47 | 1       |

Lab Sample ID: LCS 590-22950/2-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22950

| Analysis Date: 11/10/10       |           |           |          |        |           |      |   |        |          |
|-------------------------------|-----------|-----------|----------|--------|-----------|------|---|--------|----------|
| Analyte                       |           |           | Spike    | LCS    | LCS       | Unit | D | %Rec.  |          |
|                               |           |           | Added    | Result | Qualifier |      |   | Limits |          |
| Diesel Range Organics (DRO)   |           |           | 1.60     | 1.34   |           | mg/L |   | 84     | 50 - 150 |
| (C10-C25)                     |           |           |          |        |           |      |   |        |          |
| Residual Range Organics (RRO) |           |           | 1.60     | 1.55   |           | mg/L |   | 97     | 50 - 150 |
| (C25-C36)                     |           |           |          |        |           |      |   |        |          |
| Surrogate                     | LCS       | LCS       |          |        |           |      |   |        |          |
|                               | %Recovery | Qualifier | Limits   |        |           |      |   |        |          |
| o-Terphenyl                   | 88        |           | 50 - 150 |        |           |      |   |        |          |
| n-Triacontane-d62             | 96        |           | 50 - 150 |        |           |      |   |        |          |

Lab Sample ID: LCSD 590-22950/3-A

Matrix: Water

Analysis Batch: 22943

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22950

| Top Data: 11/20/10            |           |           |          |        |           |      |   |        |          |     |
|-------------------------------|-----------|-----------|----------|--------|-----------|------|---|--------|----------|-----|
| Analyte                       |           |           | Spike    | LCSD   | LCSD      | Unit | D | %Rec.  | RPD      | RPD |
|                               |           |           | Added    | Result | Qualifier |      |   | Limits | Limit    |     |
| Diesel Range Organics (DRO)   |           |           | 1.60     | 1.26   |           | mg/L |   | 79     | 50 - 150 | 6   |
| (C10-C25)                     |           |           |          |        |           |      |   |        |          | 25  |
| Residual Range Organics (RRO) |           |           | 1.60     | 1.46   |           | mg/L |   | 91     | 50 - 150 | 6   |
| (C25-C36)                     |           |           |          |        |           |      |   |        |          | 25  |
| Bottom Data: 11/20/10         |           |           |          |        |           |      |   |        |          |     |
| Surrogate                     | LCSD      |           | Limits   |        |           |      |   |        |          |     |
|                               | %Recovery | Qualifier |          |        |           |      |   |        |          |     |
| o-Terphenyl                   | 90        |           | 50 - 150 |        |           |      |   |        |          |     |
| n-Triacontane-d62             | 92        |           | 50 - 150 |        |           |      |   |        |          |     |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-304620/22-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND           |                 | 3.0  | 3.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Barium   | ND           |                 | 0.50 | 0.50 | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Cadmium  | ND           |                 | 1.0  | 1.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Chromium | ND           |                 | 1.3  | 1.3  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Lead     | ND           |                 | 1.5  | 1.5  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Selenium | ND           |                 | 5.0  | 5.0  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |
| Silver   | ND           |                 | 2.5  | 2.5  | mg/Kg |   | 07/02/19 11:41 | 07/03/19 10:04 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-304620/23-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic  | 50.0        | 50.4       |               | mg/Kg |   | 101  | 80 - 120     |
| Barium   | 50.0        | 51.9       |               | mg/Kg |   | 104  | 80 - 120     |
| Cadmium  | 50.0        | 51.4       |               | mg/Kg |   | 103  | 80 - 120     |
| Chromium | 50.0        | 54.9       |               | mg/Kg |   | 110  | 80 - 120     |
| Lead     | 50.0        | 50.7       |               | mg/Kg |   | 101  | 80 - 120     |
| Selenium | 50.0        | 51.0       |               | mg/Kg |   | 102  | 80 - 120     |
| Silver   | 50.0        | 52.4       |               | mg/Kg |   | 105  | 80 - 120     |

Lab Sample ID: LCSD 580-304620/24-A

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 50.0        | 49.7        |                | mg/Kg |   | 99   | 80 - 120     | 1   | 20        |
| Barium   | 50.0        | 50.6        |                | mg/Kg |   | 101  | 80 - 120     | 2   | 20        |
| Cadmium  | 50.0        | 50.5        |                | mg/Kg |   | 101  | 80 - 120     | 2   | 20        |
| Chromium | 50.0        | 53.8        |                | mg/Kg |   | 108  | 80 - 120     | 2   | 20        |
| Lead     | 50.0        | 49.9        |                | mg/Kg |   | 100  | 80 - 120     | 2   | 20        |
| Selenium | 50.0        | 50.1        |                | mg/Kg |   | 100  | 80 - 120     | 2   | 20        |
| Silver   | 50.0        | 50.6        |                | mg/Kg |   | 101  | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-87205-8 MS

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Arsenic  | ND            |                  | 40.1        | 39.2      |              | mg/Kg | ✱ | 98   | 80 - 120     |
| Barium   | 33            |                  | 40.1        | 72.0      |              | mg/Kg | ✱ | 97   | 80 - 120     |
| Cadmium  | ND            |                  | 40.1        | 42.3      |              | mg/Kg | ✱ | 105  | 80 - 120     |
| Chromium | 54            | F1 F2            | 40.1        | 81.5      | F1           | mg/Kg | ✱ | 69   | 80 - 120     |
| Lead     | ND            |                  | 40.1        | 40.9      |              | mg/Kg | ✱ | 102  | 80 - 120     |
| Selenium | ND            |                  | 40.1        | 36.9      |              | mg/Kg | ✱ | 92   | 80 - 120     |
| Silver   | ND            |                  | 40.1        | 45.6      |              | mg/Kg | ✱ | 114  | 80 - 120     |

Lab Sample ID: 580-87205-8 MSD

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | ND            |                  | 40.2        | 40.1       |               | mg/Kg | ✱ | 100  | 80 - 120     | 2   | 20        |
| Barium   | 33            |                  | 40.2        | 72.1       |               | mg/Kg | ✱ | 97   | 80 - 120     | 0   | 20        |
| Cadmium  | ND            |                  | 40.2        | 42.4       |               | mg/Kg | ✱ | 105  | 80 - 120     | 0   | 20        |
| Chromium | 54            | F1 F2            | 40.2        | 117        | F1 F2         | mg/Kg | ✱ | 157  | 80 - 120     | 36  | 20        |
| Lead     | ND            |                  | 40.2        | 41.0       |               | mg/Kg | ✱ | 102  | 80 - 120     | 0   | 20        |
| Selenium | ND            |                  | 40.2        | 37.6       |               | mg/Kg | ✱ | 93   | 80 - 120     | 2   | 20        |
| Silver   | ND            |                  | 40.2        | 39.4       |               | mg/Kg | ✱ | 98   | 80 - 120     | 15  | 20        |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-87205-8 DU

Matrix: Solid

Analysis Batch: 304787

Client Sample ID: MTA-B07(6.5-7.5)-20190626

Prep Type: Total/NA

Prep Batch: 304620

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|-------|---|-----|-------|
| Arsenic  | ND            |                  | ND        |              | mg/Kg | ✖ | NC  | 20    |
| Barium   | 33            |                  | 30.7      |              | mg/Kg | ✖ | 8   | 20    |
| Cadmium  | ND            |                  | ND        |              | mg/Kg | ✖ | NC  | 20    |
| Chromium | 54            | F1 F2            | 44.1      |              | mg/Kg | ✖ | 20  | 20    |
| Lead     | ND            |                  | ND        |              | mg/Kg | ✖ | NC  | 20    |
| Selenium | ND            |                  | ND        |              | mg/Kg | ✖ | NC  | 20    |
| Silver   | ND            |                  | ND        |              | mg/Kg | ✖ | NC  | 20    |

## Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-305019/16-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | MB Result | MB Qualifier | RL     | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 0.0050 | 0.0050 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Barium   | ND        |              | 0.0060 | 0.0060 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Cadmium  | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Chromium | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Lead     | ND        |              | 0.0040 | 0.0040 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Selenium | ND        |              | 0.040  | 0.040  | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |
| Silver   | ND        |              | 0.0020 | 0.0020 | mg/L |   | 07/08/19 15:52 | 07/10/19 16:12 | 5       |

Lab Sample ID: LCS 580-305019/17-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic  | 1.00        | 1.01       |               | mg/L |   | 101  | 80 - 120     |
| Barium   | 1.00        | 1.03       |               | mg/L |   | 103  | 80 - 120     |
| Cadmium  | 1.00        | 1.02       |               | mg/L |   | 102  | 80 - 120     |
| Chromium | 1.00        | 0.989      |               | mg/L |   | 99   | 80 - 120     |
| Lead     | 1.00        | 1.01       |               | mg/L |   | 101  | 80 - 120     |
| Selenium | 1.00        | 1.02       |               | mg/L |   | 102  | 80 - 120     |
| Silver   | 1.00        | 0.991      |               | mg/L |   | 99   | 80 - 120     |

Lab Sample ID: LCSD 580-305019/18-A

Matrix: Water

Analysis Batch: 305308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 305019

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|-------------|-------------|----------------|------|---|------|--------------|-----|-------|
| Arsenic  | 1.00        | 1.02        |                | mg/L |   | 102  | 80 - 120     | 1   | 20    |
| Barium   | 1.00        | 1.04        |                | mg/L |   | 104  | 80 - 120     | 1   | 20    |
| Cadmium  | 1.00        | 1.01        |                | mg/L |   | 101  | 80 - 120     | 1   | 20    |
| Chromium | 1.00        | 0.985       |                | mg/L |   | 99   | 80 - 120     | 0   | 20    |
| Lead     | 1.00        | 0.995       |                | mg/L |   | 99   | 80 - 120     | 1   | 20    |
| Selenium | 1.00        | 1.03        |                | mg/L |   | 103  | 80 - 120     | 1   | 20    |
| Silver   | 1.00        | 0.972       |                | mg/L |   | 97   | 80 - 120     | 2   | 20    |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-304931/22-A  
Matrix: Water  
Analysis Batch: 305055

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 304931

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.00030 | 0.00030 | mg/L |   | 07/08/19 08:39 | 07/08/19 16:22 | 1       |

Lab Sample ID: LCS 580-304931/23-A  
Matrix: Water  
Analysis Batch: 305055

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 304931

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Mercury | 0.00200        | 0.00195       |                  | mg/L |   | 97   | 80 - 120        |

Lab Sample ID: LCSD 580-304931/24-A  
Matrix: Water  
Analysis Batch: 305055

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 304931

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | Limit |
|---------|----------------|----------------|-------------------|------|---|------|-----------------|-----|-------|
| Mercury | 0.00200        | 0.00189        |                   | mg/L |   | 94   | 80 - 120        | 3   | 20    |

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-304948/22-A  
Matrix: Solid  
Analysis Batch: 305018

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 304948

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.030 | 0.030 | mg/Kg |   | 07/08/19 09:59 | 07/08/19 14:23 | 1       |

Lab Sample ID: LCS 580-304948/23-A  
Matrix: Solid  
Analysis Batch: 305018

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 304948

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|-------|---|------|-----------------|
| Mercury | 0.167          | 0.163         |                  | mg/Kg |   | 98   | 80 - 120        |

Lab Sample ID: LCSD 580-304948/24-A  
Matrix: Solid  
Analysis Batch: 305018

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 304948

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | Limit |
|---------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|-------|
| Mercury | 0.167          | 0.148          |                   | mg/Kg |   | 89   | 80 - 120        | 10  | 20    |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

**Client Sample ID: TripBlank1-20190626**

**Lab Sample ID: 580-87205-1**

**Date Collected: 06/26/19 00:01**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304325       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304327       | 06/28/19 15:19       | APR     | TAL SEA |
| Total/NA  | Prep       | 5035         | RA  |                 | 305295       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        | RA  | 1               | 305302       | 07/10/19 19:58       | T1W     | TAL SEA |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 13:08       | DCV     | TAL SEA |

**Client Sample ID: TripBlank2-20190626**

**Lab Sample ID: 580-87205-2**

**Date Collected: 06/26/19 00:01**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304262       | 06/28/19 01:34       | DSO     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304482       | 07/01/19 16:12       | DCV     | TAL SEA |

**Client Sample ID: MTA-B06(0-3)-20190626**

**Lab Sample ID: 580-87205-3**

**Date Collected: 06/26/19 08:20**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304902       | 07/06/19 14:40       | FCG     | TAL SEA |

**Client Sample ID: MTA-B06(0-3)-20190626**

**Lab Sample ID: 580-87205-3**

**Date Collected: 06/26/19 08:20**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 93.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304325       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304327       | 06/28/19 19:01       | APR     | TAL SEA |
| Total/NA  | Prep       | 5035         | RA  |                 | 305295       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        | RA  | 1               | 305302       | 07/10/19 21:37       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22912        | 07/09/19 09:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22917        | 07/09/19 12:33       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22912        | 07/09/19 09:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 10              | 22949        | 07/10/19 11:30       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 14:02       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 20:00       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 05:26       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:43       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 304948       | 07/08/19 09:59       | T1H     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305018       | 07/08/19 15:12       | T1H     | TAL SEA |

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# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

**Client Sample ID: MTA-B02(0-3)-20190626**

**Lab Sample ID: 580-87205-4**

**Date Collected: 06/26/19 08:45**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304902       | 07/06/19 14:40       | FCG     | TAL SEA |

**Client Sample ID: MTA-B02(0-3)-20190626**

**Lab Sample ID: 580-87205-4**

**Date Collected: 06/26/19 08:45**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 83.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304325       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304327       | 06/28/19 19:26       | APR     | TAL SEA |
| Total/NA  | Prep       | 5035         | RA  |                 | 305295       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        | RA  | 1               | 305302       | 07/10/19 22:02       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22912        | 07/09/19 09:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22917        | 07/09/19 13:00       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 14:56       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 20:21       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 05:46       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:46       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 304948       | 07/08/19 09:59       | T1H     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305018       | 07/08/19 15:19       | T1H     | TAL SEA |

**Client Sample ID: MTA-B02(5.5-6.5)-20190626**

**Lab Sample ID: 580-87205-5**

**Date Collected: 06/26/19 09:30**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304970       | 07/08/19 11:52       | MLT     | TAL SEA |

**Client Sample ID: MTA-B02(5.5-6.5)-20190626**

**Lab Sample ID: 580-87205-5**

**Date Collected: 06/26/19 09:30**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 94.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304325       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304327       | 06/28/19 19:50       | APR     | TAL SEA |
| Total/NA  | Prep       | 5035         | RA  |                 | 305295       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        | RA  | 1               | 305302       | 07/10/19 22:26       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22912        | 07/09/19 09:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22917        | 07/09/19 13:26       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 15:23       | DCV     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

**Client Sample ID: MTA-B02(5.5-6.5)-20190626**

**Lab Sample ID: 580-87205-5**

**Date Collected: 06/26/19 09:30**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 94.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 20:41       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 06:06       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:50       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 304948       | 07/08/19 09:59       | T1H     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305018       | 07/08/19 15:21       | T1H     | TAL SEA |

**Client Sample ID: MTA-B02-14-20190626**

**Lab Sample ID: 580-87205-6**

**Date Collected: 06/26/19 09:40**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304262       | 06/28/19 07:20       | DSO     | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22845        | 07/02/19 10:14       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22857        | 07/03/19 00:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304451       | 06/28/19 20:53       | DCV     | TAL SEA |
| Total/NA  | Prep       | 8011         |     |                 | 305135       | 07/09/19 14:57       | K1H     | TAL SEA |
| Total/NA  | Analysis   | 8011         |     | 1               | 305285       | 07/10/19 19:42       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22976        | 07/11/19 10:34       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22973        | 07/11/19 15:04       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3510C        |     |                 | 22950        | 07/10/19 10:09       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22943        | 07/11/19 01:47       | NMI     | TAL SPK |
| Dissolved | Prep       | 3005A        |     |                 | 305019       | 07/08/19 15:52       | ART     | TAL SEA |
| Dissolved | Analysis   | 6020A        |     | 5               | 305308       | 07/10/19 17:18       | RM      | TAL SEA |
| Dissolved | Prep       | 7470A        |     |                 | 304931       | 07/08/19 08:39       | T1H     | TAL SEA |
| Dissolved | Analysis   | 7470A        |     | 1               | 305055       | 07/08/19 17:16       | T1H     | TAL SEA |

**Client Sample ID: MTA-B99-20190626**

**Lab Sample ID: 580-87205-7**

**Date Collected: 06/26/19 09:45**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304537       | 07/01/19 17:47       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22845        | 07/02/19 10:14       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22857        | 07/03/19 00:37       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304451       | 06/28/19 21:20       | DCV     | TAL SEA |
| Total/NA  | Prep       | 8011         |     |                 | 305135       | 07/09/19 14:57       | K1H     | TAL SEA |
| Total/NA  | Analysis   | 8011         |     | 1               | 305285       | 07/10/19 19:59       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22976        | 07/11/19 10:34       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22973        | 07/11/19 15:25       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3510C        |     |                 | 22950        | 07/10/19 10:09       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22943        | 07/11/19 02:07       | NMI     | TAL SPK |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

**Client Sample ID: MTA-B99-20190626**

**Lab Sample ID: 580-87205-7**

**Date Collected: 06/26/19 09:45**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep       | 3005A        |     |                 | 305019       | 07/08/19 15:52       | ART     | TAL SEA |
| Dissolved | Analysis   | 6020A        |     | 5               | 305308       | 07/10/19 17:22       | RM      | TAL SEA |
| Dissolved | Prep       | 7470A        |     |                 | 304931       | 07/08/19 08:39       | T1H     | TAL SEA |
| Dissolved | Analysis   | 7470A        |     | 1               | 305055       | 07/08/19 17:21       | T1H     | TAL SEA |

**Client Sample ID: MTA-B07(6.5-7.5)-20190626**

**Lab Sample ID: 580-87205-8**

**Date Collected: 06/26/19 10:55**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 304902       | 07/06/19 14:40       | FCG     | TAL SEA |

**Client Sample ID: MTA-B07(6.5-7.5)-20190626**

**Lab Sample ID: 580-87205-8**

**Date Collected: 06/26/19 10:55**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 92.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 304325       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        |     | 1               | 304327       | 06/28/19 20:15       | APR     | TAL SEA |
| Total/NA  | Prep       | 5035         | RA  |                 | 305295       | 06/26/19 16:40       | APR     | TAL SEA |
| Total/NA  | Analysis   | 8260C        | RA  | 1               | 305302       | 07/10/19 22:51       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22912        | 07/09/19 09:10       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22917        | 07/09/19 13:52       | NMI     | TAL SPK |
| Total/NA  | Prep       | 5035         |     |                 | 304581       | 07/02/19 08:50       | DCV     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304584       | 07/02/19 15:50       | DCV     | TAL SEA |
| Total/NA  | Prep       | 3550C        |     |                 | 22942        | 07/10/19 09:18       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22957        | 07/10/19 21:02       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3550C        |     |                 | 22922        | 07/09/19 10:00       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22915        | 07/10/19 06:26       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3050B        |     |                 | 304620       | 07/02/19 11:41       | JCP     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 304787       | 07/03/19 10:13       | SPP     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 304948       | 07/08/19 09:59       | T1H     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 305018       | 07/08/19 15:23       | T1H     | TAL SEA |

**Client Sample ID: MTA-B07-14-20190626**

**Lab Sample ID: 580-87205-9**

**Date Collected: 06/26/19 11:33**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 304537       | 07/01/19 18:13       | CJ      | TAL SEA |
| Total/NA  | Prep       | 3510C        |     |                 | 22845        | 07/02/19 10:14       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 22857        | 07/03/19 01:03       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Gx     |     | 1               | 304451       | 06/28/19 21:47       | DCV     | TAL SEA |
| Total/NA  | Prep       | 8011         |     |                 | 305135       | 07/09/19 14:57       | K1H     | TAL SEA |
| Total/NA  | Analysis   | 8011         |     | 1               | 305285       | 07/10/19 23:03       | TL1     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

**Client Sample ID: MTA-B07-14-20190626**

**Lab Sample ID: 580-87205-9**

**Date Collected: 06/26/19 11:33**

**Matrix: Water**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 22976        | 07/11/19 10:34       | NMI     | TAL SPK |
| Total/NA  | Analysis   | 8082A        |     | 1               | 22973        | 07/11/19 15:45       | NMI     | TAL SPK |
| Total/NA  | Prep       | 3510C        |     |                 | 22950        | 07/10/19 10:09       | NMI     | TAL SPK |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 22943        | 07/11/19 02:26       | NMI     | TAL SPK |
| Dissolved | Prep       | 3005A        |     |                 | 305019       | 07/08/19 15:52       | ART     | TAL SEA |
| Dissolved | Analysis   | 6020A        |     | 5               | 305308       | 07/10/19 17:35       | RM      | TAL SEA |
| Dissolved | Prep       | 7470A        |     |                 | 304931       | 07/08/19 08:39       | T1H     | TAL SEA |
| Dissolved | Analysis   | 7470A        |     | 1               | 305055       | 07/08/19 17:18       | T1H     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-1

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | EPA Region | Identification Number | Expiration Date |
|--------------------|-----------------------|------------|-----------------------|-----------------|
| Alaska (UST)       | State Program         | 10         | 17-024                | 01-19-20        |
| ANAB               | Dept. of Defense ELAP |            | L2236                 | 01-19-22        |
| ANAB               | DoD                   |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| California         | State Program         | 9          | 2901                  | 11-05-19        |
| Montana (UST)      | State Program         | 8          | N/A                   | 04-30-20        |
| Oregon             | NELAP                 | 10         | WA100007              | 11-05-19        |
| Oregon             | NELAP                 |            | WA100007              | 11-05-19        |
| US Fish & Wildlife | Federal               |            | LE058448-0            | 07-31-19        |
| USDA               | Federal               |            | P330-14-00126         | 02-10-20        |
| Washington         | State Program         | 10         | C553                  | 02-17-20        |

### Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority    | Program       | EPA Region | Identification Number | Expiration Date |
|--------------|---------------|------------|-----------------------|-----------------|
| Alaska (UST) | State Program | 10         | 17-025                | 12-07-19        |
| Oregon       | NELAP         | 10         | 4137                  | 12-07-19        |
| Oregon       | NELAP         |            | 4137                  | 12-07-19        |
| Washington   | State Program | 10         | C569                  | 01-06-20        |



## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

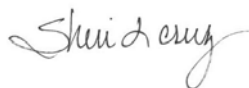
Laboratory Job ID: 580-87205-2

Client Project/Site: MTA Parking Lot, Shelton, WA  
Revision: 1

**For:**

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
8/1/2019 2:50:24 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

**Job ID: 580-87205-2**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-87205-2

#### Comments

7/17/19 client emailed to activate sample 4 for Hexachromium analysis.

7/30/19 revised to fix linking of LCS/LCSD in prep batch : Prep batch 490-607903 and AB 608002

#### Receipt

The samples were received on 6/26/2019 2:14 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 3.3° C.

#### General Chemistry

Method(s) 7196A: The matrix spike soluble / matrix spike insoluble (MSS/MSI) / post digestion spike (PDS) recovery for preparation batch 490-607903 and analytical batch 490-608002 was outside control limits due to sample matrix.

Method(s) 7196A: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure: MTA-B02(0-3)-20190626 (580-87205-4).

Method(s) 7196A: The matrix spike soluble (MSS) / post digestion spike (PDS) recoveries for preparation batch 490-608037 and analytical batch 490-608191 were outside control limits due to sample matrix. The associated laboratory control soluble sample (LCSS), laboratory control insoluble sample (LCSI), and matrix spike insoluble (MSI) recoveries met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description                                            |
|-----------|------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                        |
| F1        | MS and/or MSD Recovery is outside acceptance limits.             |
| H         | Sample was prepped or analyzed beyond the specified holding time |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 580-87205-4   | MTA-B02(0-3)-20190626 | Solid  | 06/26/19 08:45 | 06/26/19 14:14 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/26/2019  
 Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
 Project Location/Event Shelton, WA /drilling  
 Sampler's Name Katie Gaughite  
 Project Contact S. Fees  
 Send Results To D. Jorgensen, S. Fees

## Testing Parameters

87205

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

Sample I.D.

Date

Time

Matrix

No. of  
Containers

|    |                           |         |      |      |    |
|----|---------------------------|---------|------|------|----|
| 1  | Trip Blank 1 - 20190626   | 6/26/19 | 820  | Soil | 3  |
|    | Trip Blank 2 - 20190626   |         |      | Aq   | 6  |
| -3 | MTA-B06(0-3)-20190626     | 6/26/19 | 820  | Soil | 5  |
|    | MTA-B02(0-3)-20190626     |         | 845  | Soil | 5  |
| -5 | MTA-B02(5.5-6.5)-20190626 |         | 930  | Soil | 5  |
|    | MTA-B02-14-20190626       |         | 940  | Aq   | 15 |
| -7 | MTA-B09-20190626          |         | 945  | Aq   | 15 |
|    | MTA-B07(6.5-7.5)-20190626 |         | 1055 | Soil | 5  |
| -9 | MTA-B07-14-20190626       |         | 1133 | Aq   | 15 |
|    | MTA-IDW-20190626          | 6/26/19 | 1115 | Soil | 2  |

*RCRA 8 Metals 6010C 7414  
 Hex. Chromium 7196A 1500A  
 BTEX, EDC, MTBE 8200C 4L  
 TPH-G NWT PH-GX  
 TPH-D, TPH-O, NWT PH-DX  
 PAH 8270  
 PCBs 8082A  
 EDB 8260C 4L  
 EDB 8011  
 TUP Metals \**

## Observations/Comments

Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐

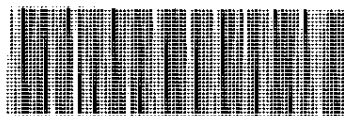
- Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered  
0.45um filter

Other

\* Hex. chromium soil samples  
 are on hold pending  
 results of RCRA 8 analysis

\* TUP Metals on hold  
 pending RCRA 8 metals  
 results



580-87205 Chain of Custody

Therm. ID: A2 Cor: 0.9C Unc: 1.2C  
 Cooler Dsc: Ly Blue  
 Packing: Bubble FedEx: \_\_\_\_\_  
 Cust. Seal: Yes No X UPS: \_\_\_\_\_  
 Blue Ice, Yes Dry, None Lab Cour: \_\_\_\_\_  
 Other: clean

Therm. ID: A2 Cor: 3.3C Unc: 3.6C  
 Cooler Dsc: Ly Blue  
 Packing: bubble FedEx: \_\_\_\_\_  
 Cust. Seal: Yes No X UPS: \_\_\_\_\_  
 Blue Ice, Yes Dry, None Lab Cour: \_\_\_\_\_  
 Other: clean

## Relinquished by

Signature Katie Gaughite  
 Printed Name Katie Gaughite  
 Company Landau Associates  
 Date 6/26/19 Time 14:15

## Received by

Signature Terrence Harris  
 Printed Name Terrence Harris  
 Company T.A.  
 Date 6/26/19 Time 14:14

## Relinquished by

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

## Received by

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_





# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/26/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA /drilling  
Sampler's Name Katie Gauglitz  
Project Contact S. Fees  
Send Results To D Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:  
Shipment Method:  
Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

| Sample I.D.               | Date    | Time | Matrix | No. of Containers | RCRA Metals | Hex. Chromium | BTEX, EDC, MTBE | TPH-G | TPH-D | TPH-O | CPAH | PCBS | EDB | EDS | TCLP Metals |
|---------------------------|---------|------|--------|-------------------|-------------|---------------|-----------------|-------|-------|-------|------|------|-----|-----|-------------|
| Trip Blank 1 - 20190626   | 6/26/19 |      | Soil   | 3                 |             |               |                 |       |       |       |      |      |     |     |             |
| Trip Blank 2 - 20190626   |         |      | Aq     | 6                 |             |               |                 |       |       |       |      |      |     |     |             |
| MTA-B06(0-3)-20190626     | 6/26/19 | 820  | Soil   | 5                 | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B02(0-3)-20190626     |         | 845  | Soil   | 5                 | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B02(5.5-6.5)-20190626 |         | 930  | Soil   | 5                 | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B02-14-20190626       |         | 940  | Aq     | 15                | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B09-20190626          |         | 945  | Aq     | 15                | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B07(6.5-7.5)-20190626 |         | 1055 | Soil   | 5                 | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-B07-14-20190626       |         | 1133 | Aq     | 15                | X           | X             | X               | X     | X     | X     | X    | X    | X   | X   |             |
| MTA-IDW-20190626          | 6/26/19 | 1115 | Soil   | 2                 |             |               |                 |       |       |       |      |      |     |     | X           |

Allow water samples to settle, collect aliquot from clear portion ☐  
NWTPH-Dx - Acid wash cleanup ☐  
Silica gel cleanup ☐  
X Dissolved metal samples were field filtered 0.45um filter  
Other \_\_\_\_\_  
\* Hex. chromium soil samples are on hold pending results of RCRA 8 analysis  
\* TCLP Metals on hold pending RCRA 8 metals results

Relinquished by  
Signature Katie M. Gauglitz  
Printed Name Katie Gauglitz  
Company Landau Associates  
Date 6/26/19 Time 14:15

Received by  
Signature [Signature]  
Printed Name Terrence Harris  
Company T.A.  
Date 6/26/19 Time 14:14

Relinquished by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_



## COOLER RECEIPT FORM



Cooler Received/Opened On 07-26-2019 @ 09:20

Time Samples Removed From Cooler 1014 Time Samples Placed In Storage 1016 (2 Hour Window)

1. Tracking # 3426 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 14740456 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 2.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 1 (left)

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) GH

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # GH

I certify that I unloaded the cooler and answered questions 7-14 (initial) GH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) GH

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) GH

I certify that I attached a label with the unique LIMS number to each container (initial) GH

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO NA

**580-87205**



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|----------------------------|----------------------------|
| Client Information (Sub Contract Lab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Sampler:                                 |               | Lab PM:                                                                                                                                                                                                                                                                                                                       |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Phone:                                   |               | Cruz, Sheri L                                                                                                                                                                                                                                                                                                                 |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Company:<br>TestAmerica Laboratories, Inc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | E-Mail:<br>sheri.cruz@testamericainc.com |               | State of Origin:<br>Washington                                                                                                                                                                                                                                                                                                |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Address:<br>2960 Foster Creighton Drive,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Due Date Requested:<br>7/30/2019         |               | Page:<br>Page 1 of 1                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| City:<br>Nashville                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | TAT Requested (days):                    |               | Job #:<br>580-87205-2                                                                                                                                                                                                                                                                                                         |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| State, Zip:<br>TN, 37204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                          |               | Preservation Codes:                                                                                                                                                                                                                                                                                                           |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Phone:<br>615-726-0177(Tel) 615-726-3404(Fax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | PO #:                                    |               | A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNaO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2O3<br>G - Amchlor S - H2SO4<br>H - Ascorbic Acid T - TSP Dodecahydrate<br>I - Ice U - Acetone<br>J - DI Water V - MCAA<br>K - EDTA W - pH 4-5<br>L - EDA Z - other (specify) |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | WO #:                                    |               | Other:                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Project Name:<br>MTA Parking Lot, Shelton, WA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Project #:<br>58013965                   |               |                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | SSOW#:                                   |               |                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Sample Identification - Client ID (Lab ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Sample Date                              | Sample Time   | Sample Type<br>(C=comp,<br>G=grab)<br><small>BT=Tissue, A=Air</small>                                                                                                                                                                                                                                                         | Matrix<br>(W=water,<br>S=solid,<br>O=waste/oil,<br>BT=Tissue, A=Air) | Field Filtered Sample (Yes or No)                                                                                                    | Return MS/MSD (Yes or No) | Retention MS/MSD (Yes or No) | Total Number of Containers | Special Instructions/Note: |
| MTA-B02(0-3)-20190626 (580-87205-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 6/26/19                                  | 08:45 Pacific |                                                                                                                                                                                                                                                                                                                               | Solid                                                                | X                                                                                                                                    |                           |                              | 1                          | Loc: 580<br>87205          |
| Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc. |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                                                                                                      |                           |                              |                            |                            |
| Possible Hazard Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)                                                 |                           |                              |                            |                            |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                           |                              |                            |                            |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      | Primary Deliverable Rank: 2                                                                                                          |                           |                              |                            |                            |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                          |               |                                                                                                                                                                                                                                                                                                                               |                                                                      | Special Instructions/QC Requirements:                                                                                                |                           |                              |                            |                            |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Date/Time:                               | Company       | Received by:                                                                                                                                                                                                                                                                                                                  | Date/Time:                                                           | Company                                                                                                                              |                           |                              |                            |                            |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Date/Time:                               | Company       | Received by:                                                                                                                                                                                                                                                                                                                  | Date/Time:                                                           | Company                                                                                                                              |                           |                              |                            |                            |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Date/Time:                               | Company       | Received by:                                                                                                                                                                                                                                                                                                                  | Date/Time:                                                           | Company                                                                                                                              |                           |                              |                            |                            |
| Custody Seals Intact:<br>Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Custody Seal No.:                        |               | Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                                                                                                                                   |                                                                      |                                                                                                                                      |                           |                              |                            |                            |

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87205-2

**Login Number: 87205**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

## General Chemistry

Client Sample ID: MTA-B02(0-3)-20190626

Date Collected: 06/26/19 08:45

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-4

Matrix: Solid

Percent Solids: 83.5

| Analyte       | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium, hex | ND     | F1        | 5.9 | 5.9 | mg/Kg | ☼ | 07/26/19 10:32 | 07/26/19 16:30 | 1       |
| Chromium, hex | ND     | H F1      | 6.0 | 6.0 | mg/Kg | ☼ | 07/28/19 15:57 | 07/30/19 13:30 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

## Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 490-607903/1-A

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium, hex | ND        |              | 5.0 | 5.0 | mg/Kg |   | 07/26/19 10:32 | 07/26/19 16:30 | 1       |

Lab Sample ID: LCS1 490-607903/3-A

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | Spike Added | LCS1 Result | LCS1 Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|-------------|-------------|----------------|-------|---|------|--------------|
| Chromium, hex | 63.9        | 50.5        | *              | mg/Kg |   | 79   | 80 - 120     |

Lab Sample ID: LCSS 490-607903/2-A

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | Spike Added | LCSS Result | LCSS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|-------------|-------------|----------------|-------|---|------|--------------|
| Chromium, hex | 39.5        | 33.8        |                | mg/Kg |   | 85   | 80 - 120     |

Lab Sample ID: 580-87205-4 MSI

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | Sample Result | Sample Qualifier | Spike Added | MSI Result | MSI Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|
| Chromium, hex | ND            | F1               | 76.7        | 57.1       | F1            | mg/Kg | ✱ | 74   | 75 - 125     |

Lab Sample ID: 580-87205-4 MSS

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | Sample Result | Sample Qualifier | Spike Added | MSS Result | MSS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|
| Chromium, hex | ND            | F1               | 47.2        | 31.6       | F1            | mg/Kg | ✱ | 67   | 75 - 125     |

Lab Sample ID: 580-87205-4 DU

Matrix: Solid

Analysis Batch: 608002

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 607903

| Analyte       | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | RPD Limit |
|---------------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Chromium, hex | ND            | F1               | ND        |              | mg/Kg | ✱ | NC  | 20        |

Lab Sample ID: MB 490-608037/1-A

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Chromium, hex | ND        |              | 5.0 | 5.0 | mg/Kg |   | 07/28/19 15:57 | 07/30/19 13:30 | 1       |

Lab Sample ID: LCS1 490-608037/3-A

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | Spike Added | LCS1 Result | LCS1 Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|-------------|-------------|----------------|-------|---|------|--------------|
| Chromium, hex | 64.7        | 53.3        |                | mg/Kg |   | 82   | 80 - 120     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

## Method: 7196A - Chromium, Hexavalent

Lab Sample ID: LCSS 490-608037/2-A

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | Spike Added | LCSS Result | LCSS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|-------------|-------------|----------------|-------|---|------|--------------|
| Chromium, hex | 39.6        | 31.7        |                | mg/Kg |   | 80   | 80 - 120     |

Lab Sample ID: 580-87205-4 MSI

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | Sample Result | Sample Qualifier | Spike Added | MSI Result | MSI Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|
| Chromium, hex | ND            | H F1             | 76.2        | 64.2       |               | mg/Kg | ✱ | 84   | 75 - 125     |

Lab Sample ID: 580-87205-4 MSS

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | Sample Result | Sample Qualifier | Spike Added | MSS Result | MSS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|
| Chromium, hex | ND            | H F1             | 46.9        | 33.6       | F1            | mg/Kg | ✱ | 71   | 75 - 125     |

Lab Sample ID: 580-87205-4 DU

Matrix: Solid

Analysis Batch: 608191

Client Sample ID: MTA-B02(0-3)-20190626

Prep Type: Total/NA

Prep Batch: 608037

| Analyte       | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | Limit |
|---------------|---------------|------------------|-----------|--------------|-------|---|-----|-------|
| Chromium, hex | ND            | H F1             | ND        |              | mg/Kg | ✱ | NC  | 20    |



# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

**Client Sample ID: MTA-B02(0-3)-20190626**

**Lab Sample ID: 580-87205-4**

**Date Collected: 06/26/19 08:45**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

**Percent Solids: 83.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3060A        |     |                 | 607903       | 07/26/19 10:32       | BMC     | TAL NSH |
| Total/NA  | Analysis   | 7196A        |     | 1               | 608002       | 07/26/19 16:30       | BMC     | TAL NSH |
| Total/NA  | Prep       | 3060A        |     |                 | 608037       | 07/28/19 15:57       | MSP     | TAL NSH |
| Total/NA  | Analysis   | 7196A        |     | 1               | 608191       | 07/30/19 13:30       | BMC     | TAL NSH |

## Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

## Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | EPA Region | Identification Number | Expiration Date |
|--------------------|-----------------------|------------|-----------------------|-----------------|
| Alaska (UST)       | State Program         | 10         | 17-024                | 01-19-20        |
| ANAB               | Dept. of Defense ELAP |            | L2236                 | 01-19-22        |
| ANAB               | DoD                   |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| California         | State                 |            | 2901                  | 11-05-19        |
| California         | State Program         | 9          | 2901                  | 11-05-19        |
| Montana (UST)      | State Program         | 8          | N/A                   | 04-30-20        |
| Oregon             | NELAP                 | 10         | WA100007              | 11-05-19        |
| Oregon             | NELAP                 |            | WA100007              | 11-05-19        |
| US Fish & Wildlife | Federal               |            | LE058448-0            | 07-31-19        |
| USDA               | Federal               |            | P330-14-00126         | 02-10-20        |
| USDA               | US Federal Programs   |            | P330-17-00039         | 02-10-20        |
| Washington         | State                 |            | C553                  | 02-17-20        |
| Washington         | State Program         | 10         | C553                  | 02-17-20        |

## Laboratory: Eurofins TestAmerica, Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program       | EPA Region | Identification Number    | Expiration Date |
|------------------------|---------------|------------|--------------------------|-----------------|
| A2LA                   | ISO/IEC 17025 |            | 0453.07                  | 12-31-19        |
| A2LA                   | ISO/IEC 17025 |            | 0453.07                  | 12-31-19        |
| Alaska (UST)           | State Program | 10         | UST-087                  | 09-30-19        |
| Arizona                | State Program | 9          | AZ0473                   | 05-05-20        |
| Arkansas DEQ           | State Program | 6          | 88-0737                  | 04-25-20        |
| California             | State Program | 9          | 2938                     | 06-30-20        |
| Connecticut            | State Program | 1          | PH-0220                  | 12-31-19        |
| Florida                | NELAP         | 4          | E87358                   | 06-30-20        |
| Georgia                | State Program | 4          | E87358(FL)/453.07(A2L A) | 06-30-20        |
| Illinois               | NELAP         | 5          | 200010                   | 12-09-19        |
| Iowa                   | State Program | 7          | 131                      | 04-01-20        |
| Kansas                 | NELAP         | 7          | E-10229                  | 10-31-19        |
| Kentucky (UST)         | State Program | 4          | 19                       | 06-30-20        |
| Kentucky (WW)          | State Program | 4          | 90038                    | 12-31-19        |
| Louisiana              | NELAP         | 6          | 30613                    | 06-30-20        |
| Maine                  | State Program | 1          | TN00032                  | 11-03-19        |
| Maryland               | State Program | 3          | 316                      | 03-31-20        |
| Massachusetts          | State Program | 1          | M-TN032                  | 06-30-20        |
| Minnesota              | NELAP         | 5          | 047-999-345              | 12-31-19        |
| Mississippi            | State Program | 4          | N/A                      | 06-30-20        |
| Nevada                 | State Program | 9          | TN00032                  | 08-31-19 *      |
| New Hampshire          | NELAP         | 1          | 2963                     | 10-09-19        |
| New Jersey             | NELAP         | 2          | TN965                    | 06-30-20        |
| New York               | NELAP         | 2          | 11342                    | 03-31-20        |
| North Carolina (WW/SW) | State Program | 4          | 387                      | 12-31-19        |
| North Dakota           | State Program | 8          | R-146                    | 06-30-20        |
| Oklahoma               | State Program | 6          | 9412                     | 08-31-19 *      |
| Oregon                 | NELAP         | 10         | TN200001                 | 04-26-20        |
| Pennsylvania           | NELAP         | 3          | 68-00585                 | 07-31-19 *      |
| Rhode Island           | State Program | 1          | LAO00268                 | 12-30-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Seattle

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-2

### Laboratory: Eurofins TestAmerica, Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority         | Program       | EPA Region | Identification Number | Expiration Date |
|-------------------|---------------|------------|-----------------------|-----------------|
| South Carolina    | State Program | 4          | 84009 (001)           | 02-28-20        |
| Tennessee         | State Program | 4          | 2008                  | 02-23-20        |
| Texas             | NELAP         | 6          | T104704077            | 08-31-19        |
| USDA              | Federal       |            | P330-13-00306         | 04-10-20        |
| Utah              | NELAP         | 8          | TN00032               | 07-31-19        |
| Virginia          | NELAP         | 3          | 460152                | 06-14-20        |
| Washington        | State Program | 10         | C789                  | 07-19-19 *      |
| West Virginia DEP | State Program | 3          | 219                   | 02-28-20        |
| Wisconsin         | State Program | 5          | 998020430             | 08-31-19 *      |
| Wyoming (UST)     | A2LA          | 8          | 453.07                | 12-31-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Seattle

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

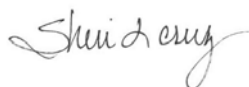
Laboratory Job ID: 580-87205-4

Client Project/Site: MTA Parking Lot, Shelton, WA

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
8/15/2019 4:13:32 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

**Job ID: 580-87205-4**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-87205-4

#### Comments

Client emailed updated COC on 8/7/19 to activate TCLP lead on sample 580-87205 sample 3 (MTA-B06(0-3)-20190626)

#### Receipt

The samples were received on 6/26/2019 2:14 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 3.3° C.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |



## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 580-87205-3   | MTA-B06(0-3)-20190626 | Solid  | 06/26/19 08:20 | 06/26/19 14:14 |          |

1

2

3

4

5

6

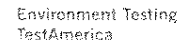
7

8

9

10

11

[illegible]Ver: 01/16/2019 8/15/2019



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 6/26/2019  
Page 1 of 1

Turnaround Time:  
☒ Standard  
☐ Accelerated

Project Name Mason Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA /drilling  
Sampler's Name Katie Gauglitz  
Project Contact S. Fees  
Send Results To D Jorgensen, S. Fees

## Testing Parameters

Special Handling Requirements:  
Shipment Method:  
Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

| Sample I.D.               | Date    | Time | Matrix | No. of Containers | PCRA 8 Metals | Hex. Chromium | EDC | MTBE | TPH-G | TPH-D | TPH-O | PCAS | EDB | EDB-G | TCLP Metals |
|---------------------------|---------|------|--------|-------------------|---------------|---------------|-----|------|-------|-------|-------|------|-----|-------|-------------|
| Trip Blank 1 - 20190626   | 6/26/19 | 820  | Soil   | 3                 | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| Trip Blank 2 - 20190626   | 6/26/19 | 845  | Ag     | 6                 | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B06(0-3)-20190626     | 6/26/19 | 845  | Soil   | 5                 | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B02(0-3)-20190626     | 6/26/19 | 930  | Soil   | 5                 | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B02(5.5-6.5)-20190626 | 6/26/19 | 940  | Soil   | 5                 | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B02-14-20190626       | 6/26/19 | 945  | Ag     | 15                | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B07(6.5-7.5)-20190626 | 6/26/19 | 1055 | Ag     | 15                | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-B07-14-20190626       | 6/26/19 | 1133 | Soil   | 15                | X             | X             | X   | X    | X     | X     | X     | X    | X   | X     | X           |
| MTA-IDW-20190626          | 6/26/19 | 1115 | Soil   | 2                 |               |               |     |      |       |       |       |      |     |       | X           |

Allow water samples to settle, collect aliquot from clear portion ☐  
NWTPH-Dx - Acid wash cleanup ☐  
Silica gel cleanup ☐  
X Dissolved metal samples were field filtered 0.45um filter  
Other  
\* Hex. chromium soil samples are on hold pending results of PCRA 8 analysis  
\* TCLP Metals on hold pending PCRA 8 metals results

Relinquished by  
Signature Katie M. Gauglitz  
Printed Name Katie Gauglitz  
Company Landau Associates  
Date 6/26/19 Time 14:15

Received by  
Signature Terrence Harris  
Printed Name Terrence Harris  
Company T.A.  
Date 6/26/19 Time 14:14

Relinquished by  
Signature  
Printed Name  
Company  
Date Time

Received by  
Signature  
Printed Name  
Company  
Date Time

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2018

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-87205-4

**Login Number: 87205**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

## Method: 6010C - Metals (ICP) - TCLP

Client Sample ID: MTA-B06(0-3)-20190626

Date Collected: 06/26/19 08:20

Date Received: 06/26/19 14:14

Lab Sample ID: 580-87205-3

Matrix: Solid

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.033  |           | 0.030 | 0.0027 | mg/L |   | 08/13/19 14:54 | 08/14/19 18:28 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-308120/1-C

Matrix: Solid

Analysis Batch: 308421

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 308234

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|--------|------|---|----------------|----------------|---------|
| Lead    | ND           |                 | 0.030 | 0.0027 | mg/L |   | 08/13/19 14:54 | 08/14/19 17:29 | 1       |

Lab Sample ID: LCS 580-308120/2-C

Matrix: Solid

Analysis Batch: 308421

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 308234

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Lead    | 1.00           | 0.993         |                  | mg/L |   | 99   | 80 - 120        |

Lab Sample ID: LCSD 580-308120/3-C

Matrix: Solid

Analysis Batch: 308421

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 308234

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|------|---|------|-----------------|-----|--------------|
| Lead    | 1.00           | 1.01           |                   | mg/L |   | 101  | 80 - 120        | 2   | 20           |



# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

**Client Sample ID: MTA-B06(0-3)-20190626**

**Lab Sample ID: 580-87205-3**

**Date Collected: 06/26/19 08:20**

**Matrix: Solid**

**Date Received: 06/26/19 14:14**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| TCLP      | Leach      | 1311         |     |                 | 308120       | 08/12/19 12:56       | ART     | TAL SEA |
| TCLP      | Prep       | 3010A        |     |                 | 308234       | 08/13/19 14:54       | T1H     | TAL SEA |
| TCLP      | Analysis   | 6010C        |     | 1               | 308421       | 08/14/19 18:28       | T1H     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA Parking Lot, Shelton, WA

Job ID: 580-87205-4

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | EPA Region | Identification Number | Expiration Date |
|--------------------|-----------------------|------------|-----------------------|-----------------|
| Alaska (UST)       | State                 |            | 17-024                | 01-19-22        |
| Alaska (UST)       | State Program         | 10         | 17-024                | 01-19-20        |
| ANAB               | Dept. of Defense ELAP |            | L2236                 | 01-19-22        |
| ANAB               | DoD                   |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         |            | L2236                 | 01-19-22        |
| California         | State                 |            | 2901                  | 11-05-19        |
| California         | State Program         | 9          | 2901                  | 11-05-19        |
| Montana (UST)      | State Program         | 8          | N/A                   | 04-30-20        |
| Oregon             | NELAP                 | 10         | WA100007              | 11-05-19        |
| Oregon             | NELAP                 |            | WA100007              | 11-05-19        |
| US Fish & Wildlife | Federal               |            | LE058448-0            | 07-31-20        |
| US Fish & Wildlife | US Federal Programs   |            | 058448                | 07-31-20        |
| USDA               | Federal               |            | P330-14-00126         | 02-10-20        |
| USDA               | US Federal Programs   |            | P330-17-00039         | 02-10-20        |
| Washington         | State                 |            | C553                  | 02-17-20        |
| Washington         | State Program         | 10         | C553                  | 02-17-20        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

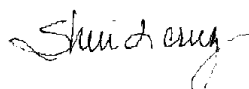
Laboratory Job ID: 580-93490-1

Client Project/Site: MTA T-CC Parking Lot

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
3/19/2020 12:54:54 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

**Job ID: 580-93490-1**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-93490-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/16/2020 4:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

#### GC/MS Semi VOA

Method 8270D SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-324979 and analytical batch 580-325022 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                          |
|-----------|----------------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.                 |
| F2        | MS/MSD RPD exceeds control limits                              |
| F7        | MS/MSD RPD exceeds control limits. Sample size differs by <10% |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-93490-1   | MTA-B09(1-3)     | Solid  | 03/16/20 13:10 | 03/16/20 16:37 |          |
| 580-93490-2   | MTA-B10(1-3)     | Solid  | 03/16/20 13:25 | 03/16/20 16:37 |          |
| 580-93490-3   | MTA-B11(1-3)     | Solid  | 03/16/20 13:40 | 03/16/20 16:37 |          |
| 580-93490-4   | MTA-B12(1-3)     | Solid  | 03/16/20 15:03 | 03/16/20 16:37 |          |
| 580-93490-5   | MTA-SP-COMP      | Solid  | 03/16/20 12:35 | 03/16/20 16:37 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 3/16/20  
Page 1 of 1

Turnaround Time:  
Standard 3-5 Day  
Accelerated 3-Day

Project Name MTA Project No. 1817001.010.011

Project Location/Event MTA T-CC Parking Lot

Sampler's Name SEF/KMG

Project Contact Sarah Fees

Send Results To djorgenson@landauinc.com

sfees@landauinc.com

Sample I.D. Date Time Matrix No. of Containers

| Sample I.D.     | Date    | Time | Matrix | No. of Containers |
|-----------------|---------|------|--------|-------------------|
| -1 MTA-B09(1-3) | 3/16/20 | 1310 | Soil   | 1                 |
| -3 MTA-B09(1-3) | 3/16/20 | 1325 | ↓      | 1                 |
| MTA-B11(1-3)    | 3/16/20 | 1340 | ↓      | 1                 |
| MTA-B12(1-3)    | 3/16/20 | 1303 | ↓      | 1                 |
| -5 MTA-SP-COMP  | 3/16/20 | 1235 | ↓      | 1                 |
| MTA-SP-A        | 3/16/20 | 1509 | ↓      | 1                 |
| -7 MTA-SP-B     | 3/16/20 | 1513 | ↓      | 1                 |
| MTA-SP-C        | 3/16/20 | 1518 | ↓      | 1                 |
| -9 MTA-SP-D     | 3/16/20 | 1523 | ↓      | 1                 |
| MTA-SP-E        | 3/16/20 | 1527 | Soil   | 1                 |

## Testing Parameters

93490

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

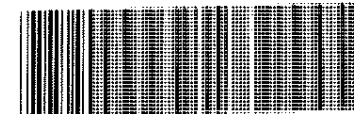
Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-DX - Acid wash cleanup ☐

- Silica gel cleanup ☐

Dissolved metal samples were field filtered

Other



580-93490 Chain of Custody

Therm. ID: R6 Cor: 1.6 ° Unc: 1.2 °

Cooler Desc: Sm Blue

Packing: Ice

FedEx:

Cust. Seal: Yes ☒ No ☒

UPS:

Blue Ice: Wet Dry, None

Lab Cour:

Other: clicko

### Relinquished by

Signature Kathleen Gangl

Printed Name Kathleen Gangl

Company Landau Associates

Date 3/16/20 Time 16:37

### Received by

Signature Tom Blankinship

Printed Name Blankinship

Company TA-SEA

Date 3/16/20 Time 16:37

### Relinquished by

Signature

Printed Name

Company

Date Time

### Received by

Signature

Printed Name

Company

Date Time



## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-93490-1

**Login Number: 93490**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B09(1-3)

Date Collected: 03/16/20 13:10

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-1

Matrix: Solid

Percent Solids: 79.3

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 16     |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Chrysene               | 28     |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Benzo[a]pyrene         | 9.0    |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Indeno[1,2,3-cd]pyrene | 27     |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Benzo[b]fluoranthene   | 43     |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |
| Benzo[k]fluoranthene   | 9.4    |           | 6.2 | 6.2 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 22:51 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 98        |           | 57 - 120 | 03/17/20 09:27 | 03/17/20 22:51 | 1       |

Client Sample ID: MTA-B10(1-3)

Date Collected: 03/16/20 13:25

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-2

Matrix: Solid

Percent Solids: 79.3

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Chrysene               | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Benzo[a]pyrene         | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 6.1 | 6.1 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:17 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 99        |           | 57 - 120 | 03/17/20 09:27 | 03/17/20 23:17 | 1       |

Client Sample ID: MTA-B11(1-3)

Date Collected: 03/16/20 13:40

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-3

Matrix: Solid

Percent Solids: 80.3

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 7.9    |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Chrysene               | 13     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Indeno[1,2,3-cd]pyrene | 11     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Benzo[b]fluoranthene   | 17     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/17/20 23:43 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 103       |           | 57 - 120 | 03/17/20 09:27 | 03/17/20 23:43 | 1       |

Client Sample ID: MTA-B12(1-3)

Date Collected: 03/16/20 15:03

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-4

Matrix: Solid

Percent Solids: 79.6

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 52     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |
| Chrysene               | 63     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |
| Benzo[a]pyrene         | 44     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |
| Indeno[1,2,3-cd]pyrene | 59     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |
| Dibenz(a,h)anthracene  | 11     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |
| Benzo[b]fluoranthene   | 120    |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: MTA-B12(1-3)

Date Collected: 03/16/20 15:03

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-4

Matrix: Solid

Percent Solids: 79.6

| Analyte              | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[k]fluoranthene | 26     |           | 5.9 | 5.9 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:09 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 105       |           | 57 - 120 | 03/17/20 09:27 | 03/18/20 00:09 | 1       |

Client Sample ID: MTA-SP-COMP

Date Collected: 03/16/20 12:35

Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-5

Matrix: Solid

Percent Solids: 88.7

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 15     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Chrysene               | 37     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Benzo[a]pyrene         | 14     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Indeno[1,2,3-cd]pyrene | 20     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Dibenz(a,h)anthracene  | ND     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Benzo[b]fluoranthene   | 47     | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |
| Benzo[k]fluoranthene   | 9.2    | F2 F1     | 5.3 | 5.3 | ug/Kg | ☼ | 03/17/20 09:27 | 03/18/20 00:35 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 88        |           | 57 - 120 | 03/17/20 09:27 | 03/18/20 00:35 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-324979/1-A

Matrix: Solid

Analysis Batch: 325022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324979

| Analyte                | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Chrysene               | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 03/17/20 09:27 | 03/17/20 18:54 | 1       |

| Surrogate     | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|--------------|--------------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 107          |              | 57 - 120 | 03/17/20 09:27 | 03/17/20 18:54 | 1       |

Lab Sample ID: LCS 580-324979/2-A

Matrix: Solid

Analysis Batch: 325022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 324979

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Benzo[a]anthracene     | 1000        | 923        |               | ug/Kg |   | 92   | 66 - 120 |
| Chrysene               | 1000        | 854        |               | ug/Kg |   | 85   | 63 - 120 |
| Benzo[a]pyrene         | 1000        | 987        |               | ug/Kg |   | 99   | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | 1000        | 934        |               | ug/Kg |   | 93   | 65 - 132 |
| Dibenz(a,h)anthracene  | 1000        | 973        |               | ug/Kg |   | 97   | 70 - 133 |
| Benzo[b]fluoranthene   | 1000        | 857        |               | ug/Kg |   | 86   | 63 - 132 |
| Benzo[k]fluoranthene   | 1000        | 1010       |               | ug/Kg |   | 101  | 63 - 131 |

| Surrogate     | LCS %Recovery | LCS Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 108           |               | 57 - 120 |

Lab Sample ID: 580-93490-5 MS

Matrix: Solid

Analysis Batch: 325022

Client Sample ID: MTA-SP-COMP

Prep Type: Total/NA

Prep Batch: 324979

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzo[a]anthracene     | 15            | F2 F1            | 1100        | 614       | F1           | ug/Kg | ☼ | 54   | 66 - 120 |
| Chrysene               | 37            | F2 F1            | 1100        | 569       | F1           | ug/Kg | ☼ | 48   | 63 - 120 |
| Benzo[a]pyrene         | 14            | F2 F1            | 1100        | 466       | F1           | ug/Kg | ☼ | 41   | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | 20            | F2 F1            | 1100        | 458       | F1           | ug/Kg | ☼ | 40   | 65 - 132 |
| Dibenz(a,h)anthracene  | ND            | F2 F1            | 1100        | 372       | F1           | ug/Kg | ☼ | 34   | 70 - 133 |
| Benzo[b]fluoranthene   | 47            | F2 F1            | 1100        | 626       | F1           | ug/Kg | ☼ | 53   | 63 - 132 |
| Benzo[k]fluoranthene   | 9.2           | F2 F1            | 1100        | 442       | F1           | ug/Kg | ☼ | 39   | 63 - 131 |

| Surrogate     | MS %Recovery | MS Qualifier | Limits   |
|---------------|--------------|--------------|----------|
| Terphenyl-d14 | 86           |              | 57 - 120 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 580-93490-5 MSD

Matrix: Solid

Analysis Batch: 325022

Client Sample ID: MTA-SP-COMP

Prep Type: Total/NA

Prep Batch: 324979

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzo[a]anthracene     | 15            | F2 F1            | 1080        | 390        | F7 F1         | ug/Kg | ✱ | 35   | 66 - 120     | 45  | 14        |
| Chrysene               | 37            | F2 F1            | 1080        | 359        | F7 F1         | ug/Kg | ✱ | 30   | 63 - 120     | 45  | 10        |
| Benzo[a]pyrene         | 14            | F2 F1            | 1080        | 332        | F7 F1         | ug/Kg | ✱ | 29   | 72 - 124     | 34  | 19        |
| Indeno[1,2,3-cd]pyrene | 20            | F2 F1            | 1080        | 317        | F7 F1         | ug/Kg | ✱ | 28   | 65 - 132     | 36  | 15        |
| Dibenz(a,h)anthracene  | ND            | F2 F1            | 1080        | 273        | F7 F1         | ug/Kg | ✱ | 25   | 70 - 133     | 31  | 13        |
| Benzo[b]fluoranthene   | 47            | F2 F1            | 1080        | 479        | F7 F1         | ug/Kg | ✱ | 40   | 63 - 132     | 27  | 25        |
| Benzo[k]fluoranthene   | 9.2           | F2 F1            | 1080        | 312        | F7 F1         | ug/Kg | ✱ | 28   | 63 - 131     | 35  | 15        |

| Surrogate     | MSD %Recovery | MSD Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 71            |               | 57 - 120 |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

**Client Sample ID: MTA-B09(1-3)**

**Date Collected: 03/16/20 13:10**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-1**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 325012       | 03/17/20 12:01       | HBP     | TAL SEA |

**Client Sample ID: MTA-B09(1-3)**

**Date Collected: 03/16/20 13:10**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-1**

**Matrix: Solid**

**Percent Solids: 79.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 324979       | 03/17/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 325022       | 03/17/20 22:51       | W1T     | TAL SEA |

**Client Sample ID: MTA-B10(1-3)**

**Date Collected: 03/16/20 13:25**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-2**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 325012       | 03/17/20 12:01       | HBP     | TAL SEA |

**Client Sample ID: MTA-B10(1-3)**

**Date Collected: 03/16/20 13:25**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-2**

**Matrix: Solid**

**Percent Solids: 79.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 324979       | 03/17/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 325022       | 03/17/20 23:17       | W1T     | TAL SEA |

**Client Sample ID: MTA-B11(1-3)**

**Date Collected: 03/16/20 13:40**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-3**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 325012       | 03/17/20 12:01       | HBP     | TAL SEA |

**Client Sample ID: MTA-B11(1-3)**

**Date Collected: 03/16/20 13:40**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-3**

**Matrix: Solid**

**Percent Solids: 80.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 324979       | 03/17/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 325022       | 03/17/20 23:43       | W1T     | TAL SEA |

**Client Sample ID: MTA-B12(1-3)**

**Date Collected: 03/16/20 15:03**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-4**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 325012       | 03/17/20 12:01       | HBP     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

**Client Sample ID: MTA-B12(1-3)**

**Lab Sample ID: 580-93490-4**

**Date Collected: 03/16/20 15:03**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

**Percent Solids: 79.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 324979       | 03/17/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 325022       | 03/18/20 00:09       | W1T     | TAL SEA |

**Client Sample ID: MTA-SP-COMP**

**Lab Sample ID: 580-93490-5**

**Date Collected: 03/16/20 12:35**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 325012       | 03/17/20 12:01       | HBP     | TAL SEA |

**Client Sample ID: MTA-SP-COMP**

**Lab Sample ID: 580-93490-5**

**Date Collected: 03/16/20 12:35**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

**Percent Solids: 88.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 324979       | 03/17/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 325022       | 03/18/20 00:35       | W1T     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-1

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

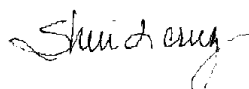
Laboratory Job ID: 580-93490-2

Client Project/Site: MTA T-CC Parking Lot

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
4/6/2020 12:42:41 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

## Job ID: 580-93490-2

Laboratory: Eurofins TestAmerica, Seattle

### Narrative

#### Job Narrative 580-93490-2

#### Comments

04/01/2020 client activated samples 6-10 that were on hold previously for cPAHs after hold times had expired: MTA-SP-A (580-93490-6), MTA-SP-B (580-93490-7), MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10).

#### Receipt

The samples were received on 3/16/2020 4:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

#### Receipt Exceptions

The following sample(s) was activated by the client on 4/1/2020. Client wants to proceed with activating past hold times. MTA-SP-A (580-93490-6), MTA-SP-B (580-93490-7), MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10).

#### GC/MS Semi VOA

Method 8270D SIM: The following samples were prepared outside of preparation holding time due to the client activating these samples for analysis outside of holding time : MTA-SP-A (580-93490-6), MTA-SP-B (580-93490-7), MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10).

Method 8270D SIM: Surrogate recovery for the following samples were outside control limits: MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time due to the client activating these samples for analysis out of hold : MTA-SP-A (580-93490-6), MTA-SP-B (580-93490-7), MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                            |
|-----------|------------------------------------------------------------------|
| H         | Sample was prepped or analyzed beyond the specified holding time |
| X         | Surrogate recovery exceeds control limits                        |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-93490-6   | MTA-SP-A         | Solid  | 03/16/20 15:09 | 03/16/20 16:37 |          |
| 580-93490-7   | MTA-SP-B         | Solid  | 03/16/20 15:13 | 03/16/20 16:37 |          |
| 580-93490-8   | MTA-SP-C         | Solid  | 03/16/20 15:18 | 03/16/20 16:37 |          |
| 580-93490-9   | MTA-SP-D         | Solid  | 03/16/20 15:23 | 03/16/20 16:37 |          |
| 580-93490-10  | MTA-SP-E         | Solid  | 03/16/20 15:27 | 03/16/20 16:37 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907  
☒ Tacoma (253) 926-2493  
☐ Spokane (509) 327-9737  
☐ Portland (503) 542-1080

Date 3/16/20  
 Page 1 of 1

Turnaround Time:  
 Standard 3-5 Day  
 Accelerated 3-Day

Project Name MTA Project No. 1817001.010.011

Project Location/Event MTA T-CC Parking Lot

Sampler's Name SEF/KMG

Project Contact Sarah Fees

Send Results To djorgenson@landauinc.com

sfees@landauinc.com

Sample I.D. Date Time Matrix No. of Containers

| Sample I.D.     | Date    | Time | Matrix | No. of Containers |
|-----------------|---------|------|--------|-------------------|
| -1 MTA-B09(1-3) | 3/16/20 | 1310 | Soil   | 1                 |
| MTA-B09(1-3)    | 3/16/20 | 1325 | ↓      | 1                 |
| -3 MTA-B11(1-3) | 3/16/20 | 1340 | ↓      | 1                 |
| MTA-B12(1-3)    | 3/16/20 | 1303 | ↓      | 1                 |
| -5 MTA-SP-COMP  | 3/16/20 | 1235 | ↓      | 1                 |
| MTA-SP-A        | 3/16/20 | 1509 | ↓      | 1                 |
| -7 MTA-SP-B     | 3/16/20 | 1513 | ↓      | 1                 |
| MTA-SP-C        | 3/16/20 | 1518 | ↓      | 1                 |
| -9 MTA-SP-D     | 3/16/20 | 1523 | ↓      | 1                 |
| MTA-SP-E        | 3/16/20 | 1527 | Soil   | 1                 |

CPAH - 8270 SIA  
Hold

## Testing Parameters

93490

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

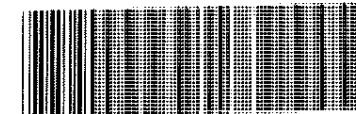
Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-DX - Acid wash cleanup ☐

- Silica gel cleanup ☐

Dissolved metal samples were field filtered

Other



580-93490 Chain of Custody

Therm. ID: R6 Cor: 1.6 ° Unc: 1.2 °

Cooler Desc: Sm Blue

Packing: buc

Cust. Seal: Yes ☒ No ☐

Blue Ice: Wet, Dry, None

FedEx:

UPS:

Lab Cour:

Other: clicko

### Relinquished by

Signature Katrin Ganglitz

Printed Name Katrin Ganglitz

Company Landau Associates

Date 3/16/2020 Time 16:37

### Received by

Signature Tom Blankinship

Printed Name Blankinship

Company TA-SEA

Date 3/16/20 Time 1637

### Relinquished by

Signature

Printed Name

Company

Date Time

### Received by

Signature

Printed Name

Company

Date Time



## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-93490-2

**Login Number: 93490**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-SP-A  
Date Collected: 03/16/20 15:09  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-6  
Matrix: Solid  
Percent Solids: 92.4

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 40     | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Chrysene               | 70     | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Benzo[a]pyrene         | 48     | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Indeno[1,2,3-cd]pyrene | 43     | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Dibenz(a,h)anthracene  | 6.4    | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Benzo[b]fluoranthene   | 110    | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |
| Benzo[k]fluoranthene   | ND     | H         | 5.2 | 5.2 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:13 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 80        |           | 57 - 120 | 04/02/20 12:07 | 04/04/20 15:13 | 1       |

Client Sample ID: MTA-SP-B  
Date Collected: 03/16/20 15:13  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-7  
Matrix: Solid  
Percent Solids: 92.3

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 100    | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Chrysene               | 150    | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Benzo[a]pyrene         | 120    | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Indeno[1,2,3-cd]pyrene | 110    | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Dibenz(a,h)anthracene  | 28     | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Benzo[b]fluoranthene   | 310    | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |
| Benzo[k]fluoranthene   | ND     | H         | 5.1 | 5.1 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 15:39 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 85        |           | 57 - 120 | 04/02/20 12:07 | 04/04/20 15:39 | 1       |

Client Sample ID: MTA-SP-C  
Date Collected: 03/16/20 15:18  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-8  
Matrix: Solid  
Percent Solids: 88.5

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 14     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Chrysene               | 31     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Benzo[a]pyrene         | 16     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Indeno[1,2,3-cd]pyrene | 15     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Dibenz(a,h)anthracene  | ND     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Benzo[b]fluoranthene   | 46     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |
| Benzo[k]fluoranthene   | ND     | H         | 5.4 | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:05 | 1       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 49        | X         | 57 - 120 | 04/02/20 12:07 | 04/04/20 16:05 | 1       |

Client Sample ID: MTA-SP-D  
Date Collected: 03/16/20 15:23  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-9  
Matrix: Solid  
Percent Solids: 84.7

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Chrysene               | 7.7    | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Benzo[a]pyrene         | ND     | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Dibenz(a,h)anthracene  | ND     | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Benzo[b]fluoranthene   | ND     | H         | 5.7 | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: MTA-SP-D  
Date Collected: 03/16/20 15:23  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-9  
Matrix: Solid  
Percent Solids: 84.7

| Analyte              | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[k]fluoranthene | ND        | H         | 5.7      | 5.7 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:32 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14        | 10        | X         | 57 - 120 |     |       |   | 04/02/20 12:07 | 04/04/20 16:32 | 1       |

Client Sample ID: MTA-SP-E  
Date Collected: 03/16/20 15:27  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-10  
Matrix: Solid  
Percent Solids: 86.8

| Analyte                | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Chrysene               | 10        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Benzo[a]pyrene         | ND        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Dibenz(a,h)anthracene  | ND        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Benzo[b]fluoranthene   | 12        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Benzo[k]fluoranthene   | ND        | H         | 5.4      | 5.4 | ug/Kg | ☼ | 04/02/20 12:07 | 04/04/20 16:58 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 14        | X         | 57 - 120 |     |       |   | 04/02/20 12:07 | 04/04/20 16:58 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-326053/1-A

Matrix: Solid

Analysis Batch: 326147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 326053

| Analyte                | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Chrysene               | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 04/02/20 12:07 | 04/04/20 10:51 | 1       |

| Surrogate     | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|--------------|--------------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 87           |              | 57 - 120 | 04/02/20 12:07 | 04/04/20 10:51 | 1       |

Lab Sample ID: LCS 580-326053/2-A

Matrix: Solid

Analysis Batch: 326147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 326053

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Benzo[a]anthracene     | 1000        | 839        |               | ug/Kg |   | 84   | 66 - 120 |
| Chrysene               | 1000        | 892        |               | ug/Kg |   | 89   | 63 - 120 |
| Benzo[a]pyrene         | 1000        | 942        |               | ug/Kg |   | 94   | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | 1000        | 1240       |               | ug/Kg |   | 124  | 65 - 132 |
| Dibenz(a,h)anthracene  | 1000        | 894        |               | ug/Kg |   | 89   | 70 - 133 |
| Benzo[b]fluoranthene   | 1000        | 904        |               | ug/Kg |   | 90   | 63 - 132 |
| Benzo[k]fluoranthene   | 1000        | 944        |               | ug/Kg |   | 94   | 63 - 131 |

| Surrogate     | LCS %Recovery | LCS Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 79            |               | 57 - 120 |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

**Client Sample ID: MTA-SP-A**

**Date Collected: 03/16/20 15:09**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-6**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 326036       | 04/02/20 09:46       | HBP     | TAL SEA |

**Client Sample ID: MTA-SP-A**

**Date Collected: 03/16/20 15:09**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-6**

**Matrix: Solid**

**Percent Solids: 92.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 326053       | 04/02/20 12:07       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 326147       | 04/04/20 15:13       | APR     | TAL SEA |

**Client Sample ID: MTA-SP-B**

**Date Collected: 03/16/20 15:13**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-7**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 326036       | 04/02/20 09:46       | HBP     | TAL SEA |

**Client Sample ID: MTA-SP-B**

**Date Collected: 03/16/20 15:13**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-7**

**Matrix: Solid**

**Percent Solids: 92.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 326053       | 04/02/20 12:07       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 326147       | 04/04/20 15:39       | APR     | TAL SEA |

**Client Sample ID: MTA-SP-C**

**Date Collected: 03/16/20 15:18**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-8**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 326036       | 04/02/20 09:46       | HBP     | TAL SEA |

**Client Sample ID: MTA-SP-C**

**Date Collected: 03/16/20 15:18**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-8**

**Matrix: Solid**

**Percent Solids: 88.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 326053       | 04/02/20 12:07       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 326147       | 04/04/20 16:05       | APR     | TAL SEA |

**Client Sample ID: MTA-SP-D**

**Date Collected: 03/16/20 15:23**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-9**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 326036       | 04/02/20 09:46       | HBP     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

**Client Sample ID: MTA-SP-D**

**Lab Sample ID: 580-93490-9**

**Date Collected: 03/16/20 15:23**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

**Percent Solids: 84.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 326053       | 04/02/20 12:07       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 326147       | 04/04/20 16:32       | APR     | TAL SEA |

**Client Sample ID: MTA-SP-E**

**Lab Sample ID: 580-93490-10**

**Date Collected: 03/16/20 15:27**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 326036       | 04/02/20 09:46       | HBP     | TAL SEA |

**Client Sample ID: MTA-SP-E**

**Lab Sample ID: 580-93490-10**

**Date Collected: 03/16/20 15:27**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

**Percent Solids: 86.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 326053       | 04/02/20 12:07       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 326147       | 04/04/20 16:58       | APR     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-2

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |



## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

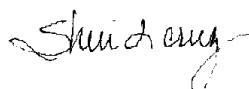
Laboratory Job ID: 580-93490-3

Client Project/Site: MTA T-CC Parking Lot

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
4/10/2020 1:03:38 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

**Job ID: 580-93490-3**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-93490-3

## Comments

4/7/2020 samples 6-10 activated for RCRA 8 metals by client on email.

## Receipt

The samples were received on 3/16/2020 4:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

## Receipt Exceptions

The following sample(s) was activated by the client on 4//7/2020 for RCRA 8 metals: MTA-SP-A (580-93490-6), MTA-SP-B (580-93490-7), MTA-SP-C (580-93490-8), MTA-SP-D (580-93490-9) and MTA-SP-E (580-93490-10).

## Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Qualifiers

### Metals

| Qualifier | Qualifier Description                          |
|-----------|------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-93490-6   | MTA-SP-A         | Solid  | 03/16/20 15:09 | 03/16/20 16:37 |          |
| 580-93490-7   | MTA-SP-B         | Solid  | 03/16/20 15:13 | 03/16/20 16:37 |          |
| 580-93490-8   | MTA-SP-C         | Solid  | 03/16/20 15:18 | 03/16/20 16:37 |          |
| 580-93490-9   | MTA-SP-D         | Solid  | 03/16/20 15:23 | 03/16/20 16:37 |          |
| 580-93490-10  | MTA-SP-E         | Solid  | 03/16/20 15:27 | 03/16/20 16:37 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907  
☒ Tacoma (253) 926-2493  
☐ Spokane (509) 327-9737  
☐ Portland (503) 542-1080

Date 3/16/20  
 Page 1 of 1

Turnaround Time:  
 Standard 3-5 Day  
 Accelerated 3-Day

Project Name MTA Project No. 1817001.010.011

Project Location/Event MTA T-CC Parking Lot

Sampler's Name SEF/KMG

Project Contact Sarah Fees

Send Results To djorgenson@landauinc.com

sfees@landauinc.com

Sample I.D. Date Time Matrix No. of Containers

| Sample I.D.     | Date    | Time | Matrix | No. of Containers |
|-----------------|---------|------|--------|-------------------|
| -1 MTA-B09(1-3) | 3/16/20 | 1310 | Soil   | 1                 |
| MTA-B09(1-3)    | 3/16/20 | 1325 | ↓      | 1                 |
| -3 MTA-B11(1-3) | 3/16/20 | 1340 | ↓      | 1                 |
| MTA-B12(1-3)    | 3/16/20 | 1303 | ↓      | 1                 |
| -5 MTA-SP-COMP  | 3/16/20 | 1235 | ↓      | 1                 |
| MTA-SP-A        | 3/16/20 | 1509 | ↓      | 1                 |
| -7 MTA-SP-B     | 3/16/20 | 1513 | ↓      | 1                 |
| MTA-SP-C        | 3/16/20 | 1518 | ↓      | 1                 |
| -9 MTA-SP-D     | 3/16/20 | 1523 | ↓      | 1                 |
| MTA-SP-E        | 3/16/20 | 1527 | Soil   | 1                 |

CPAH - 8270 SIA  
Hold

## Testing Parameters

93490

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

## Observations/Comments

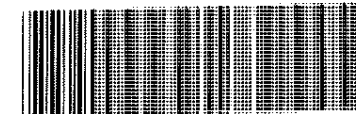
Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-DX - Acid wash cleanup ☐

- Silica gel cleanup ☐

Dissolved metal samples were field filtered

Other



580-93490 Chain of Custody

Therm. ID: R6 Cor: 1.6 ° Unc: 1.2 °

Cooler Desc: Sm Blue

Packing: buc

Cust. Seal: Yes ☒ No ☐

Blue Ice: Wet Dry, None

FedEx:

UPS:

Lab Cour:

Other: clicko

### Relinquished by

Signature Katrin Ganglitz

Printed Name Katrin Ganglitz

Company Landau Associates

Date 3/16/20 Time 16:37

### Received by

Signature Tom Blankinship

Printed Name Blankinship

Company TA-SEA

Date 3/16/20 Time 16:37

### Relinquished by

Signature

Printed Name

Company

Date Time

### Received by

Signature

Printed Name

Company

Date Time

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-93490-3

**Login Number: 93490**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Method: 6010C - Metals (ICP)

**Client Sample ID: MTA-SP-A**  
**Date Collected: 03/16/20 15:09**  
**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-6**  
**Matrix: Solid**  
**Percent Solids: 92.4**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 3.0    |           | 2.5  | 2.5  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Barium   | 65     |           | 0.42 | 0.42 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Cadmium  | ND     |           | 0.85 | 0.85 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Chromium | 42     |           | 1.1  | 1.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Lead     | 160    |           | 1.3  | 1.3  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Selenium | ND     |           | 4.2  | 4.2  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |
| Silver   | ND     |           | 2.1  | 2.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:55 | 1       |

**Client Sample ID: MTA-SP-B**  
**Date Collected: 03/16/20 15:13**  
**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-7**  
**Matrix: Solid**  
**Percent Solids: 92.3**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 2.8    |           | 2.0  | 2.0  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Barium   | 49     |           | 0.34 | 0.34 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Cadmium  | ND     |           | 0.68 | 0.68 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Chromium | 39     |           | 0.89 | 0.89 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Lead     | 120    |           | 1.0  | 1.0  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Selenium | ND     |           | 3.4  | 3.4  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |
| Silver   | ND     |           | 1.7  | 1.7  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 00:58 | 1       |

**Client Sample ID: MTA-SP-C**  
**Date Collected: 03/16/20 15:18**  
**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-8**  
**Matrix: Solid**  
**Percent Solids: 88.5**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 2.7    |           | 2.5  | 2.5  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Barium   | 64     |           | 0.41 | 0.41 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Cadmium  | ND     |           | 0.82 | 0.82 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Chromium | 46     |           | 1.1  | 1.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Lead     | 230    |           | 1.2  | 1.2  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:01 | 1       |

**Client Sample ID: MTA-SP-D**  
**Date Collected: 03/16/20 15:23**  
**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-9**  
**Matrix: Solid**  
**Percent Solids: 84.7**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 3.8    |           | 2.4  | 2.4  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Barium   | 110    |           | 0.41 | 0.41 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Cadmium  | 1.1    |           | 0.81 | 0.81 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Chromium | 77     |           | 1.1  | 1.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Lead     | 250    |           | 1.2  | 1.2  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:04 | 1       |

**Client Sample ID: MTA-SP-E**  
**Date Collected: 03/16/20 15:27**  
**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-10**  
**Matrix: Solid**  
**Percent Solids: 86.8**

| Analyte | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic | 3.6    |           | 3.0  | 3.0  | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |
| Barium  | 90     |           | 0.49 | 0.49 | mg/Kg | ☼ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: MTA-SP-E  
Date Collected: 03/16/20 15:27  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-10  
Matrix: Solid  
Percent Solids: 86.8

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cadmium  | ND     |           | 0.99 | 0.99 | mg/Kg | ⚠ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |
| Chromium | 54     |           | 1.3  | 1.3  | mg/Kg | ⚠ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |
| Lead     | 260    |           | 1.5  | 1.5  | mg/Kg | ⚠ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |
| Selenium | ND     |           | 4.9  | 4.9  | mg/Kg | ⚠ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |
| Silver   | ND     |           | 2.5  | 2.5  | mg/Kg | ⚠ | 04/07/20 13:50 | 04/09/20 01:08 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Method: 7471A - Mercury (CVAA)

Client Sample ID: MTA-SP-A  
Date Collected: 03/16/20 15:09  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-6  
Matrix: Solid  
Percent Solids: 92.4

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.051  |           | 0.024 | 0.024 | mg/Kg | ☼ | 04/07/20 15:23 | 04/08/20 16:33 | 1       |

Client Sample ID: MTA-SP-B  
Date Collected: 03/16/20 15:13  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-7  
Matrix: Solid  
Percent Solids: 92.3

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.040  |           | 0.022 | 0.022 | mg/Kg | ☼ | 04/07/20 15:23 | 04/08/20 16:31 | 1       |

Client Sample ID: MTA-SP-C  
Date Collected: 03/16/20 15:18  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-8  
Matrix: Solid  
Percent Solids: 88.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.047  |           | 0.028 | 0.028 | mg/Kg | ☼ | 04/07/20 15:23 | 04/08/20 16:29 | 1       |

Client Sample ID: MTA-SP-D  
Date Collected: 03/16/20 15:23  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-9  
Matrix: Solid  
Percent Solids: 84.7

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.063  |           | 0.022 | 0.022 | mg/Kg | ☼ | 04/07/20 15:23 | 04/08/20 16:22 | 1       |

Client Sample ID: MTA-SP-E  
Date Collected: 03/16/20 15:27  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-10  
Matrix: Solid  
Percent Solids: 86.8

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.064  | F1        | 0.029 | 0.029 | mg/Kg | ☼ | 04/07/20 15:23 | 04/08/20 16:13 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-326307/13-A  
Matrix: Solid  
Analysis Batch: 326466

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 326307

| Analyte  | MB Result | MB Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 3.0  | 3.0  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Barium   | ND        |              | 0.50 | 0.50 | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Cadmium  | ND        |              | 1.0  | 1.0  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Chromium | ND        |              | 1.3  | 1.3  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Lead     | ND        |              | 1.5  | 1.5  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Selenium | ND        |              | 5.0  | 5.0  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |
| Silver   | ND        |              | 2.5  | 2.5  | mg/Kg |   | 04/07/20 13:50 | 04/09/20 00:05 | 1       |

Lab Sample ID: LCS 580-326307/14-A  
Matrix: Solid  
Analysis Batch: 326466

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 326307

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic  | 50.0        | 47.6       |               | mg/Kg |   | 95   | 80 - 120     |
| Barium   | 50.0        | 43.3       |               | mg/Kg |   | 87   | 80 - 120     |
| Cadmium  | 50.0        | 46.8       |               | mg/Kg |   | 94   | 80 - 120     |
| Chromium | 50.0        | 48.7       |               | mg/Kg |   | 97   | 80 - 120     |
| Lead     | 50.0        | 47.4       |               | mg/Kg |   | 95   | 80 - 120     |
| Selenium | 50.0        | 48.8       |               | mg/Kg |   | 98   | 80 - 120     |
| Silver   | 50.0        | 46.2       |               | mg/Kg |   | 92   | 80 - 120     |

Lab Sample ID: LCSD 580-326307/15-A  
Matrix: Solid  
Analysis Batch: 326466

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 326307

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 50.0        | 48.7        |                | mg/Kg |   | 97   | 80 - 120     | 2   | 20        |
| Barium   | 50.0        | 43.7        |                | mg/Kg |   | 87   | 80 - 120     | 1   | 20        |
| Cadmium  | 50.0        | 47.5        |                | mg/Kg |   | 95   | 80 - 120     | 1   | 20        |
| Chromium | 50.0        | 49.0        |                | mg/Kg |   | 98   | 80 - 120     | 1   | 20        |
| Lead     | 50.0        | 48.2        |                | mg/Kg |   | 96   | 80 - 120     | 2   | 20        |
| Selenium | 50.0        | 49.8        |                | mg/Kg |   | 100  | 80 - 120     | 2   | 20        |
| Silver   | 50.0        | 46.2        |                | mg/Kg |   | 92   | 80 - 120     | 0   | 20        |

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-326319/12-A  
Matrix: Solid  
Analysis Batch: 326368

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 326319

| Analyte | MB Result | MB Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.030 | 0.030 | mg/Kg |   | 04/07/20 15:23 | 04/08/20 16:06 | 1       |

Lab Sample ID: LCS 580-326319/13-A  
Matrix: Solid  
Analysis Batch: 326368

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 326319

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Mercury | 0.167       | 0.150      |               | mg/Kg |   | 90   | 80 - 120     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

## Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-326319/14-A

Matrix: Solid

Analysis Batch: 326368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 326319

| Analyte |  |  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|--|--|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Mercury |  |  | 0.167       | 0.149       |                | mg/Kg |   | 90   | 80 - 120     | 1   | 20        |

Lab Sample ID: 580-93490-10 MS

Matrix: Solid

Analysis Batch: 326368

Client Sample ID: MTA-SP-E

Prep Type: Total/NA

Prep Batch: 326319

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.064         | F1               | 0.163       | 0.255     |              | mg/Kg | ✱ | 117  | 80 - 120     |     |           |

Lab Sample ID: 580-93490-10 MSD

Matrix: Solid

Analysis Batch: 326368

Client Sample ID: MTA-SP-E

Prep Type: Total/NA

Prep Batch: 326319

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.064         | F1               | 0.164       | 0.264      | F1            | mg/Kg | ✱ | 122  | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-93490-10 DU

Matrix: Solid

Analysis Batch: 326368

Client Sample ID: MTA-SP-E

Prep Type: Total/NA

Prep Batch: 326319

| Analyte | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit  | D |  |  | RPD | RPD Limit |
|---------|---------------|------------------|--|-----------|--------------|-------|---|--|--|-----|-----------|
| Mercury | 0.064         | F1               |  | 0.0744    |              | mg/Kg | ✱ |  |  | 15  | 20        |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

**Client Sample ID: MTA-SP-A**

**Date Collected: 03/16/20 15:09**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-6**

**Matrix: Solid**

**Percent Solids: 92.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 326307       | 04/07/20 13:50       | ART     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 326466       | 04/09/20 00:55       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 326319       | 04/07/20 15:23       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 326368       | 04/08/20 16:33       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-B**

**Date Collected: 03/16/20 15:13**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-7**

**Matrix: Solid**

**Percent Solids: 92.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 326307       | 04/07/20 13:50       | ART     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 326466       | 04/09/20 00:58       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 326319       | 04/07/20 15:23       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 326368       | 04/08/20 16:31       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-C**

**Date Collected: 03/16/20 15:18**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-8**

**Matrix: Solid**

**Percent Solids: 88.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 326307       | 04/07/20 13:50       | ART     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 326466       | 04/09/20 01:01       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 326319       | 04/07/20 15:23       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 326368       | 04/08/20 16:29       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-D**

**Date Collected: 03/16/20 15:23**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-9**

**Matrix: Solid**

**Percent Solids: 84.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 326307       | 04/07/20 13:50       | ART     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 326466       | 04/09/20 01:04       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 326319       | 04/07/20 15:23       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 326368       | 04/08/20 16:22       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-E**

**Date Collected: 03/16/20 15:27**

**Date Received: 03/16/20 16:37**

**Lab Sample ID: 580-93490-10**

**Matrix: Solid**

**Percent Solids: 86.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3050B        |     |                 | 326307       | 04/07/20 13:50       | ART     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 326466       | 04/09/20 01:08       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 326319       | 04/07/20 15:23       | ART     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 326368       | 04/08/20 16:13       | A1B     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-3

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

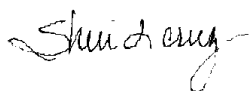
Laboratory Job ID: 580-93490-4

Client Project/Site: MTA T-CC Parking Lot

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
4/17/2020 10:10:59 AM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

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results through  
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[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

**Job ID: 580-93490-4**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

**Job Narrative**  
**580-93490-4**

## Comments

No additional comments.

## Receipt

The samples were received on 3/16/2020 4:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

## Receipt Exceptions

The following sample was activated by the client on 4/13/2020 for TCLP lead only: MTA-SP-E (580-93490-10).

## Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-93490-10  | MTA-SP-E         | Solid  | 03/16/20 15:27 | 03/16/20 16:37 |          |

1

2

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11



Date 3/14/20

Page 1 of 1

Turnaround Time:  
Standard ~~3-4 Days~~  
Accelerated 3-Day

| Sample I.D.         | Date | Time | Matrix | No. of Containers |
|---------------------|------|------|--------|-------------------|
| Stees@landauinc.com |      |      |        |                   |

### Testing Parameters

23490

Special Handling Requirements:

Shipment Method:

Stored on ice: ☒ Yes / ☐ No

| Observations/Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|    |                 |         |      |      |   |
|----|-----------------|---------|------|------|---|
| -1 | MTA - B09 (1-3) | 3/16/20 | 1310 | Soil | 1 |
|    | MTA - B09 (1-3) | 3/16/20 | 1325 | ↓    | 1 |
| -3 | MTA - B11 (1-3) | 3/16/20 | 1340 |      | 1 |
|    | MTA - B12 (1-3) | 3/16/20 | 1303 |      | 1 |
| -5 | MTA - SP - COMP | 3/16/20 | 1235 | ↓    | 1 |
|    | MTA - SP - A    | 3/16/20 | 1509 | ↓    | 1 |
| -7 | MTA - SP - B    | 3/16/20 | 1513 | ↓    | 1 |
|    | MTA - SP - C    | 3/16/20 | 1518 | ↓    | 1 |
| -9 | MTA - SP - D    | 3/16/20 | 1523 | ↓    | 1 |
|    | MTA - SP - E    | 3/16/20 | 1527 | Soil | 1 |

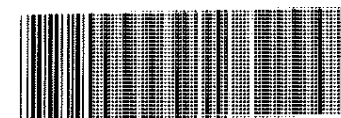
.... Allow water samples to settle, collect aliquot from clear portion ☐

..... NWTPH-Dx - Acid wash cleanup ☐

- Silica gel cleanup ☐

... Dissolved metal samples were field filtered

Other



580-93490 Chain of Custody

Therm. ID: RG Cor: 1.6 ° Unc: 1.2 °

Cooler Desc: Sea Blue

Packing: luc

**FedEx:**

Cust. Seal: Yes No ☒

— UPS:

Blue Ice, Wet, Dry, None

**Lab Cour:**

## Relinquished by

Signature Kalvin J. Gault

Printed Name Kathleen Gaughran

Company Landan Associates

Date 3/16/2020 Time 16:37

Received by

Signature 

Printed Name Blankinship

Company TA-Sea

Date 3/16/20 Time 763 P

## Relinquished by

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

**Company**

Date \_\_\_\_\_ Time \_\_\_\_\_

Received by

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Company

Date \_\_\_\_\_ Time \_\_\_\_\_



## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-93490-4

**Login Number: 93490**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

## Method: 6010D - Metals (ICP) - TCLP

Client Sample ID: MTA-SP-E  
Date Collected: 03/16/20 15:27  
Date Received: 03/16/20 16:37

Lab Sample ID: 580-93490-10  
Matrix: Solid

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.13   |           | 0.030 | 0.0027 | mg/L |   | 04/14/20 15:19 | 04/15/20 20:36 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-326702/10-A  
Matrix: Solid  
Analysis Batch: 326865

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 326702

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Lead    | ND        |              | 0.030 | 0.0027 | mg/L |   | 04/14/20 15:19 | 04/15/20 19:56 | 1       |

Lab Sample ID: LCS 580-326702/11-A  
Matrix: Solid  
Analysis Batch: 326865

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 326702

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Lead    | 1.00        | 0.962      |               | mg/L |   | 96   | 80 - 120     |

Lab Sample ID: LCSD 580-326702/12-A  
Matrix: Solid  
Analysis Batch: 326865

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 326702

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Lead    | 1.00        | 0.963       |                | mg/L |   | 96   | 80 - 120     | 0   | 20        |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

**Client Sample ID: MTA-SP-E**

**Lab Sample ID: 580-93490-10**

**Date Collected: 03/16/20 15:27**

**Matrix: Solid**

**Date Received: 03/16/20 16:37**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| TCLP      | Leach      | 1311         |     |                 | 326607       | 04/13/20 13:46       | TMH     | TAL SEA |
| TCLP      | Prep       | 3010A        |     |                 | 326702       | 04/14/20 15:19       | ART     | TAL SEA |
| TCLP      | Analysis   | 6010D        |     | 1               | 326865       | 04/15/20 20:36       | TMH     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: MTA T-CC Parking Lot

Job ID: 580-93490-4

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

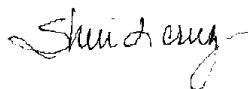
Laboratory Job ID: 580-94618-1

Client Project/Site: Mason Transit Authority

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sarah Fees



Authorized for release by:  
5/14/2020 11:39:11 AM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

**Job ID: 580-94618-1**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-94618-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/11/2020 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

#### GC/MS Semi VOA

Method 8270D SIM: Surrogate recovery for the following samples were outside control limits: MTA-SP-H (580-94618-6) and MTA-SP-I (580-94618-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-328086 and analytical batch 580-328200 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method 8082A: The following samples required a TBA clean-up to reduce matrix interferences caused by sulfur: MTA-B13 (1) (580-94618-1), MTA-B14 (1) (580-94618-2), MTA-B15 (1) (580-94618-3), (580-94618-A-3-F MS) and (580-94618-A-3-G MSD).

Method 8082A: The following continuing calibration verification (CCV) associated with analytical batch 580-328173 recovered outside acceptance criteria on the confirmation column for PCB-1232. The associated sample results for those analytes were reported from the primary column which met acceptance criteria. The following samples are impacted: MTA-B13 (1) (580-94618-1), MTA-B14 (1) (580-94618-2), MTA-B15 (1) (580-94618-3) and (CCV 580-328173/3)

Method NWTPH-Dx: (CCV 580-328185/14) recovered outside drift criteria for o-Terphenyl surrogate. This surrogate recovered within control limits in the associated QC and client samples; therefore, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description                          |
|-----------|------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits. |
| X         | Surrogate recovery exceeds control limits      |

### Metals

| Qualifier | Qualifier Description                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.                |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                                                                           |
| F2        | MS/MSD RPD exceeds control limits                                                                                                                                        |
| F5        | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| SQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-94618-1   | MTA-B13 (1)      | Solid  | 05/11/20 10:55 | 05/11/20 14:15 |          |
| 580-94618-2   | MTA-B14 (1)      | Solid  | 05/11/20 11:12 | 05/11/20 14:15 |          |
| 580-94618-3   | MTA-B15 (1)      | Solid  | 05/11/20 11:20 | 05/11/20 14:15 |          |
| 580-94618-4   | MTA-SP-F         | Solid  | 05/11/20 12:20 | 05/11/20 14:15 |          |
| 580-94618-5   | MTA-SP-G         | Solid  | 05/11/20 12:30 | 05/11/20 14:15 |          |
| 580-94618-6   | MTA-SP-H         | Solid  | 05/11/20 12:43 | 05/11/20 14:15 |          |
| 580-94618-7   | MTA-SP-I         | Solid  | 05/11/20 12:50 | 05/11/20 14:15 |          |
| 580-94618-8   | MTA-SP-J         | Solid  | 05/11/20 12:58 | 05/11/20 14:15 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 5/11/2020  
Page 1 of 1

Turnaround Time:  
Standard \_\_\_\_\_  
Accelerated 72 hr

Project Name Mason Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA / confirmation sampling  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To S. Fees, D. Jorgensen

## Testing Parameters

94618  
Special Handling Requirements:  
Shipment Method drop off  
Stored on ice: Yes / No

|    | Sample I.D. | Date    | Time  | Matrix | No. of Containers | CPAH 8270D SIM | PCBs 8032A | PERA 8 Metals 60204 | NWTPH-Dx | Observations/Comments                                                                      |
|----|-------------|---------|-------|--------|-------------------|----------------|------------|---------------------|----------|--------------------------------------------------------------------------------------------|
| -1 | MTA-B13(1)  | 5/11/20 | 1055  | Soil   | 1                 | X              | X          | X                   | X        | Allow water samples to settle, collect aliquot from clear portion <input type="checkbox"/> |
|    | MTA-B14(1)  |         | 11:12 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
| -3 | MTA-B15(1)  |         | 11:20 |        | 1                 | X              | X          | X                   | X        | NWTPH-Dx - Acid wash cleanup <input type="checkbox"/>                                      |
|    | MTA-B16(1)  |         |       |        | 1                 | X              | X          | X                   | X        | - Silica gel cleanup <input type="checkbox"/>                                              |
|    | MTA-SP-F    |         | 12:20 |        | 1                 | X              | X          | X                   | X        | Dissolved metal samples were field filtered                                                |
| -5 | MTA-SP-G    |         | 12:30 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
|    | MTA-SP-H    |         | 12:43 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
| -7 | MTA-SP-I    |         | 12:50 |        | 1                 | X              | X          | X                   | X        | Other _____                                                                                |
|    | MTA-SP-J    |         | 12:58 |        | 1                 | X              | X          | X                   | X        |                                                                                            |



580-94618 Chain of Custody

Therm. ID: A1 Cpr: 3.6° Unc: 3.8°  
Cooler Desc: Med blue  
Packing: two FedEx: \_\_\_\_\_  
Cust. Seal: Yes No \* UPS: \_\_\_\_\_  
Blue Ice: Yes Dry, None Lab Cour: \_\_\_\_\_  
Other: Chloro

Relinquished by  
Signature Katie Gauglitz  
Printed Name Katie Gauglitz  
Company Landau Associates  
Date 5/11/2020 Time 14:15

Received by  
Signature Tom Blankinship  
Printed Name Blankinship  
Company TA-Sea  
Date 5/11/20 Time 1415

Relinquished by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-94618-1

**Login Number: 94618**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B13 (1)

Date Collected: 05/11/20 10:55

Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-1

Matrix: Solid

Percent Solids: 87.8

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 95     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Chrysene               | 120    |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Benzo[a]pyrene         | 82     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Indeno[1,2,3-cd]pyrene | 59     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Dibenz(a,h)anthracene  | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Benzo[b]fluoranthene   | 110    |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |
| Benzo[k]fluoranthene   | 33     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 11:58 | 5       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 98        |           | 57 - 120 | 05/11/20 18:25 | 05/13/20 11:58 | 5       |

Client Sample ID: MTA-B14 (1)

Date Collected: 05/11/20 11:12

Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-2

Matrix: Solid

Percent Solids: 86.2

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Chrysene               | 30     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Benzo[a]pyrene         | ND     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Dibenz(a,h)anthracene  | ND     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Benzo[b]fluoranthene   | 28     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |
| Benzo[k]fluoranthene   | ND     |           | 28 | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:27 | 5       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 118       |           | 57 - 120 | 05/11/20 18:25 | 05/13/20 12:27 | 5       |

Client Sample ID: MTA-B15 (1)

Date Collected: 05/11/20 11:20

Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-3

Matrix: Solid

Percent Solids: 83.6

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Chrysene               | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Benzo[a]pyrene         | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Dibenz(a,h)anthracene  | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Benzo[b]fluoranthene   | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |
| Benzo[k]fluoranthene   | ND     |           | 27 | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 12:52 | 5       |

| Surrogate     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|-----------|-----------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 89        |           | 57 - 120 | 05/11/20 18:25 | 05/13/20 12:52 | 5       |

Client Sample ID: MTA-SP-F

Date Collected: 05/11/20 12:20

Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-4

Matrix: Solid

Percent Solids: 89.3

| Analyte                | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 88     |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Chrysene               | 130    |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Benzo[a]pyrene         | 77     |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Indeno[1,2,3-cd]pyrene | 72     |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Dibenz(a,h)anthracene  | ND     |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Benzo[b]fluoranthene   | 160    |           | 26 | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: MTA-SP-F  
Date Collected: 05/11/20 12:20  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-4  
Matrix: Solid  
Percent Solids: 89.3

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[k]fluoranthene | 44        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:16 | 5       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14        | 102       |           | 57 - 120 |    |       |   | 05/11/20 18:25 | 05/13/20 13:16 | 5       |

Client Sample ID: MTA-SP-G  
Date Collected: 05/11/20 12:30  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-5  
Matrix: Solid  
Percent Solids: 89.1

| Analyte                | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 26        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Chrysene               | 60        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Benzo[a]pyrene         | ND        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Indeno[1,2,3-cd]pyrene | 28        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Benzo[b]fluoranthene   | 64        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 26       | 26 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 13:41 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 99        |           | 57 - 120 |    |       |   | 05/11/20 18:25 | 05/13/20 13:41 | 5       |

Client Sample ID: MTA-SP-H  
Date Collected: 05/11/20 12:43  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-6  
Matrix: Solid  
Percent Solids: 90.1

| Analyte                | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 66        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Chrysene               | 94        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Benzo[a]pyrene         | 31        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Benzo[b]fluoranthene   | 92        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:05 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 50        | X         | 57 - 120 |    |       |   | 05/11/20 18:25 | 05/13/20 14:05 | 5       |

Client Sample ID: MTA-SP-I  
Date Collected: 05/11/20 12:50  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-7  
Matrix: Solid  
Percent Solids: 89.2

| Analyte                | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Chrysene               | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Benzo[a]pyrene         | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Benzo[b]fluoranthene   | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 28       | 28 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:30 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 35        | X         | 57 - 120 |    |       |   | 05/11/20 18:25 | 05/13/20 14:30 | 5       |

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-SP-J  
Date Collected: 05/11/20 12:58  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-8  
Matrix: Solid  
Percent Solids: 89.9

| Analyte                     | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene          | ND        | F1        | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| <b>Chrysene</b>             | <b>28</b> | <b>F1</b> | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| Benzo[a]pyrene              | ND        | F1        | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| Indeno[1,2,3-cd]pyrene      | ND        | F1        | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| Dibenz(a,h)anthracene       | ND        | F1        | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| <b>Benzo[b]fluoranthene</b> | <b>32</b> | <b>F1</b> | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| Benzo[k]fluoranthene        | ND        | F1        | 27       | 27 | ug/Kg | ☼ | 05/11/20 18:25 | 05/13/20 14:55 | 5       |
| Surrogate                   | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14               | 65        |           | 57 - 120 |    |       |   | 05/11/20 18:25 | 05/13/20 14:55 | 5       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MTA-B13 (1)  
Date Collected: 05/11/20 10:55  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-1  
Matrix: Solid  
Percent Solids: 87.8

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.021    | 0.0079 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1221               | ND        |           | 0.021    | 0.0045 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1232               | ND        |           | 0.021    | 0.0052 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1242               | ND        |           | 0.021    | 0.0037 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1248               | ND        |           | 0.021    | 0.0031 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1254               | ND        |           | 0.021    | 0.0039 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| PCB-1260               | ND        |           | 0.021    | 0.0079 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 103       |           | 39 - 142 |        |       |   | 05/12/20 09:48 | 05/13/20 00:48 | 1       |
| Tetrachloro-m-xylene   | 92        |           | 35 - 129 |        |       |   | 05/12/20 09:48 | 05/13/20 00:48 | 1       |

Client Sample ID: MTA-B14 (1)  
Date Collected: 05/11/20 11:12  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-2  
Matrix: Solid  
Percent Solids: 86.2

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.022    | 0.0082 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1221               | ND        |           | 0.022    | 0.0047 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1232               | ND        |           | 0.022    | 0.0055 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1242               | ND        |           | 0.022    | 0.0039 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1248               | ND        |           | 0.022    | 0.0032 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1254               | ND        |           | 0.022    | 0.0041 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| PCB-1260               | ND        |           | 0.022    | 0.0082 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 82        |           | 39 - 142 |        |       |   | 05/12/20 09:48 | 05/13/20 01:06 | 1       |
| Tetrachloro-m-xylene   | 85        |           | 35 - 129 |        |       |   | 05/12/20 09:48 | 05/13/20 01:06 | 1       |

Client Sample ID: MTA-B15 (1)  
Date Collected: 05/11/20 11:20  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-3  
Matrix: Solid  
Percent Solids: 83.6

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.023    | 0.0085 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1221               | ND        |           | 0.023    | 0.0048 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1232               | ND        |           | 0.023    | 0.0056 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1242               | ND        |           | 0.023    | 0.0040 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1248               | ND        |           | 0.023    | 0.0033 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1254               | ND        |           | 0.023    | 0.0042 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| PCB-1260               | ND        |           | 0.023    | 0.0085 | mg/Kg | ☼ | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 85        |           | 39 - 142 |        |       |   | 05/12/20 09:48 | 05/13/20 01:24 | 1       |
| Tetrachloro-m-xylene   | 77        |           | 35 - 129 |        |       |   | 05/12/20 09:48 | 05/13/20 01:24 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Client Sample ID: MTA-B13 (1)  
Date Collected: 05/11/20 10:55  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-1  
Matrix: Solid  
Percent Solids: 87.8

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 53       | 53 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 20:12 | 1       |
| Motor Oil (>C24-C36) | 170       |           | 53       | 53 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 20:12 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl          | 72        |           | 50 - 150 |    |       |   | 05/11/20 18:06 | 05/12/20 20:12 | 1       |

Client Sample ID: MTA-B14 (1)  
Date Collected: 05/11/20 11:12  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-2  
Matrix: Solid  
Percent Solids: 86.2

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 56       | 56 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 20:52 | 1       |
| Motor Oil (>C24-C36) | 220       |           | 56       | 56 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 20:52 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl          | 70        |           | 50 - 150 |    |       |   | 05/11/20 18:06 | 05/12/20 20:52 | 1       |

Client Sample ID: MTA-B15 (1)  
Date Collected: 05/11/20 11:20  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-3  
Matrix: Solid  
Percent Solids: 83.6

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 58       | 58 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 21:13 | 1       |
| Motor Oil (>C24-C36) | 120       |           | 58       | 58 | mg/Kg | ☼ | 05/11/20 18:06 | 05/12/20 21:13 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl          | 74        |           | 50 - 150 |    |       |   | 05/11/20 18:06 | 05/12/20 21:13 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 6010C - Metals (ICP)

**Client Sample ID: MTA-B13 (1)**  
**Date Collected: 05/11/20 10:55**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-1**  
**Matrix: Solid**  
**Percent Solids: 87.8**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 7.3    |           | 2.1  | 2.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Barium   | 86     | F1        | 0.35 | 0.35 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Cadmium  | ND     |           | 0.70 | 0.70 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Chromium | 69     |           | 0.92 | 0.92 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Lead     | 140    |           | 1.1  | 1.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Selenium | ND     |           | 3.5  | 3.5  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |
| Silver   | ND     |           | 1.8  | 1.8  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 12:35 | 1       |

**Client Sample ID: MTA-B14 (1)**  
**Date Collected: 05/11/20 11:12**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-2**  
**Matrix: Solid**  
**Percent Solids: 86.2**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 3.4    |           | 2.4  | 2.4  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Barium   | 93     |           | 0.40 | 0.40 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Cadmium  | ND     |           | 0.80 | 0.80 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Chromium | 94     |           | 1.0  | 1.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Lead     | 170    |           | 1.2  | 1.2  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Selenium | ND     |           | 4.0  | 4.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:09 | 1       |

**Client Sample ID: MTA-B15 (1)**  
**Date Collected: 05/11/20 11:20**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-3**  
**Matrix: Solid**  
**Percent Solids: 83.6**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 3.1    |           | 2.4  | 2.4  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Barium   | 95     |           | 0.41 | 0.41 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Cadmium  | ND     |           | 0.81 | 0.81 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Chromium | 95     |           | 1.1  | 1.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Lead     | 62     |           | 1.2  | 1.2  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Selenium | ND     |           | 4.1  | 4.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |
| Silver   | ND     |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:13 | 1       |

**Client Sample ID: MTA-SP-F**  
**Date Collected: 05/11/20 12:20**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-4**  
**Matrix: Solid**  
**Percent Solids: 89.3**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 3.2    |           | 2.3  | 2.3  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Barium   | 55     |           | 0.38 | 0.38 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Cadmium  | ND     |           | 0.75 | 0.75 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Chromium | 52     |           | 0.98 | 0.98 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Lead     | 150    |           | 1.1  | 1.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Selenium | ND     |           | 3.8  | 3.8  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |
| Silver   | ND     |           | 1.9  | 1.9  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:17 | 1       |

**Client Sample ID: MTA-SP-G**  
**Date Collected: 05/11/20 12:30**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-5**  
**Matrix: Solid**  
**Percent Solids: 89.1**

| Analyte | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic | 5.0    |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |
| Barium  | 69     |           | 0.33 | 0.33 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 6010C - Metals (ICP) (Continued)

**Client Sample ID: MTA-SP-G**  
**Date Collected: 05/11/20 12:30**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-5**  
**Matrix: Solid**  
**Percent Solids: 89.1**

| Analyte         | Result     | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cadmium         | ND         |           | 0.65 | 0.65 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |
| <b>Chromium</b> | <b>53</b>  |           | 0.85 | 0.85 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |
| <b>Lead</b>     | <b>300</b> |           | 0.98 | 0.98 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |
| Selenium        | ND         |           | 3.3  | 3.3  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |
| Silver          | ND         |           | 1.6  | 1.6  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:21 | 1       |

**Client Sample ID: MTA-SP-H**  
**Date Collected: 05/11/20 12:43**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-6**  
**Matrix: Solid**  
**Percent Solids: 90.1**

| Analyte         | Result     | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>3.9</b> |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| <b>Barium</b>   | <b>62</b>  |           | 0.34 | 0.34 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| Cadmium         | ND         |           | 0.67 | 0.67 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| <b>Chromium</b> | <b>38</b>  |           | 0.87 | 0.87 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| <b>Lead</b>     | <b>130</b> |           | 1.0  | 1.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| Selenium        | ND         |           | 3.4  | 3.4  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |
| Silver          | ND         |           | 1.7  | 1.7  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:24 | 1       |

**Client Sample ID: MTA-SP-I**  
**Date Collected: 05/11/20 12:50**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-7**  
**Matrix: Solid**  
**Percent Solids: 89.2**

| Analyte         | Result     | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>3.7</b> |           | 2.1  | 2.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| <b>Barium</b>   | <b>75</b>  |           | 0.34 | 0.34 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| Cadmium         | ND         |           | 0.69 | 0.69 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| <b>Chromium</b> | <b>44</b>  |           | 0.90 | 0.90 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| <b>Lead</b>     | <b>210</b> |           | 1.0  | 1.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| Selenium        | ND         |           | 3.4  | 3.4  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |
| Silver          | ND         |           | 1.7  | 1.7  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:28 | 1       |

**Client Sample ID: MTA-SP-J**  
**Date Collected: 05/11/20 12:58**  
**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-8**  
**Matrix: Solid**  
**Percent Solids: 89.9**

| Analyte         | Result     | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| <b>Arsenic</b>  | <b>3.2</b> |           | 2.1  | 2.1  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| <b>Barium</b>   | <b>56</b>  |           | 0.34 | 0.34 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| Cadmium         | ND         |           | 0.68 | 0.68 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| <b>Chromium</b> | <b>41</b>  |           | 0.89 | 0.89 | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| <b>Lead</b>     | <b>110</b> |           | 1.0  | 1.0  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| Selenium        | ND         |           | 3.4  | 3.4  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |
| Silver          | ND         |           | 1.7  | 1.7  | mg/Kg | ☼ | 05/12/20 08:44 | 05/13/20 13:31 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: MTA-B13 (1)  
Date Collected: 05/11/20 10:55  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-1  
Matrix: Solid  
Percent Solids: 87.8

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.10   | F1 F2     | 0.027 | 0.027 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 11:57 | 1       |

Client Sample ID: MTA-B14 (1)  
Date Collected: 05/11/20 11:12  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-2  
Matrix: Solid  
Percent Solids: 86.2

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.039  |           | 0.027 | 0.027 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:11 | 1       |

Client Sample ID: MTA-B15 (1)  
Date Collected: 05/11/20 11:20  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-3  
Matrix: Solid  
Percent Solids: 83.6

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.039  |           | 0.026 | 0.026 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:13 | 1       |

Client Sample ID: MTA-SP-F  
Date Collected: 05/11/20 12:20  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-4  
Matrix: Solid  
Percent Solids: 89.3

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.074  |           | 0.028 | 0.028 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:15 | 1       |

Client Sample ID: MTA-SP-G  
Date Collected: 05/11/20 12:30  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-5  
Matrix: Solid  
Percent Solids: 89.1

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.089  |           | 0.025 | 0.025 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:18 | 1       |

Client Sample ID: MTA-SP-H  
Date Collected: 05/11/20 12:43  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-6  
Matrix: Solid  
Percent Solids: 90.1

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.056  |           | 0.026 | 0.026 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:20 | 1       |

Client Sample ID: MTA-SP-I  
Date Collected: 05/11/20 12:50  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-7  
Matrix: Solid  
Percent Solids: 89.2

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.070  |           | 0.025 | 0.025 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:22 | 1       |

Client Sample ID: MTA-SP-J  
Date Collected: 05/11/20 12:58  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-8  
Matrix: Solid  
Percent Solids: 89.9

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.040  |           | 0.021 | 0.021 | mg/Kg | ☼ | 05/12/20 07:38 | 05/12/20 12:24 | 1       |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-328086/1-A

Matrix: Solid

Analysis Batch: 328200

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328086

| Analyte                | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Chrysene               | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/11/20 18:25 | 05/13/20 11:08 | 1       |

| Surrogate     | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|--------------|--------------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 110          |              | 57 - 120 | 05/11/20 18:25 | 05/13/20 11:08 | 1       |

Lab Sample ID: LCS 580-328086/2-A

Matrix: Solid

Analysis Batch: 328200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328086

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Benzo[a]anthracene     | 1000        | 873        |               | ug/Kg |   | 87   | 66 - 120 |
| Chrysene               | 1000        | 826        |               | ug/Kg |   | 83   | 63 - 120 |
| Benzo[a]pyrene         | 1000        | 873        |               | ug/Kg |   | 87   | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | 1000        | 899        |               | ug/Kg |   | 90   | 65 - 132 |
| Dibenz(a,h)anthracene  | 1000        | 902        |               | ug/Kg |   | 90   | 70 - 133 |
| Benzo[b]fluoranthene   | 1000        | 869        |               | ug/Kg |   | 87   | 63 - 132 |
| Benzo[k]fluoranthene   | 1000        | 879        |               | ug/Kg |   | 88   | 63 - 131 |

| Surrogate     | LCS %Recovery | LCS Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 105           |               | 57 - 120 |

Lab Sample ID: 580-94618-8 MS

Matrix: Solid

Analysis Batch: 328200

Client Sample ID: MTA-SP-J

Prep Type: Total/NA

Prep Batch: 328086

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzo[a]anthracene     | ND            | F1               | 1050        | 577       | F1           | ug/Kg | ☼ | 55   | 66 - 120 |
| Chrysene               | 28            | F1               | 1050        | 600       | F1           | ug/Kg | ☼ | 54   | 63 - 120 |
| Benzo[a]pyrene         | ND            | F1               | 1050        | 494       | F1           | ug/Kg | ☼ | 47   | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | ND            | F1               | 1050        | 454       | F1           | ug/Kg | ☼ | 43   | 65 - 132 |
| Dibenz(a,h)anthracene  | ND            | F1               | 1050        | 415       | F1           | ug/Kg | ☼ | 39   | 70 - 133 |
| Benzo[b]fluoranthene   | 32            | F1               | 1050        | 663       | F1           | ug/Kg | ☼ | 60   | 63 - 132 |
| Benzo[k]fluoranthene   | ND            | F1               | 1050        | 488       | F1           | ug/Kg | ☼ | 46   | 63 - 131 |

| Surrogate     | MS %Recovery | MS Qualifier | Limits   |
|---------------|--------------|--------------|----------|
| Terphenyl-d14 | 84           |              | 57 - 120 |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 580-94618-8 MSD

Matrix: Solid

Analysis Batch: 328200

Client Sample ID: MTA-SP-J

Prep Type: Total/NA

Prep Batch: 328086

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzo[a]anthracene     | ND            | F1               | 1030        | 529        | F1            | ug/Kg | ☼ | 51   | 66 - 120     | 9   | 14        |
| Chrysene               | 28            | F1               | 1030        | 541        | F1            | ug/Kg | ☼ | 50   | 63 - 120     | 10  | 10        |
| Benzo[a]pyrene         | ND            | F1               | 1030        | 482        | F1            | ug/Kg | ☼ | 47   | 72 - 124     | 2   | 19        |
| Indeno[1,2,3-cd]pyrene | ND            | F1               | 1030        | 459        | F1            | ug/Kg | ☼ | 45   | 65 - 132     | 1   | 15        |
| Dibenz(a,h)anthracene  | ND            | F1               | 1030        | 411        | F1            | ug/Kg | ☼ | 40   | 70 - 133     | 1   | 13        |
| Benzo[b]fluoranthene   | 32            | F1               | 1030        | 623        | F1            | ug/Kg | ☼ | 57   | 63 - 132     | 6   | 25        |
| Benzo[k]fluoranthene   | ND            | F1               | 1030        | 501        | F1            | ug/Kg | ☼ | 49   | 63 - 131     | 3   | 15        |

| Surrogate     | MSD %Recovery | MSD Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 80            |               | 57 - 120 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-328124/1-A

Matrix: Solid

Analysis Batch: 328173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328124

| Analyte  | MB Result | MB Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND        |              | 0.020 | 0.0074 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1221 | ND        |              | 0.020 | 0.0042 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1232 | ND        |              | 0.020 | 0.0049 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1242 | ND        |              | 0.020 | 0.0035 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1248 | ND        |              | 0.020 | 0.0029 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1254 | ND        |              | 0.020 | 0.0037 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| PCB-1260 | ND        |              | 0.020 | 0.0074 | mg/Kg |   | 05/12/20 09:48 | 05/13/20 00:13 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 107          |              | 39 - 142 | 05/12/20 09:48 | 05/13/20 00:13 | 1       |
| Tetrachloro-m-xylene   | 100          |              | 35 - 129 | 05/12/20 09:48 | 05/13/20 00:13 | 1       |

Lab Sample ID: LCS 580-328124/2-A

Matrix: Solid

Analysis Batch: 328173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328124

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| PCB-1016 | 0.100       | 0.101      |               | mg/Kg |   | 101  | 41 - 138     |
| PCB-1260 | 0.100       | 0.0931     |               | mg/Kg |   | 93   | 47 - 142     |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| DCB Decachlorobiphenyl | 106           |               | 39 - 142 |
| Tetrachloro-m-xylene   | 95            |               | 35 - 129 |

Lab Sample ID: 580-94618-3 MS

Matrix: Solid

Analysis Batch: 328173

Client Sample ID: MTA-B15 (1)

Prep Type: Total/NA

Prep Batch: 328124

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| PCB-1016 | ND            |                  | 0.116       | 0.0963    |              | mg/Kg | ☼ | 83   | 41 - 138     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 580-94618-3 MS

Matrix: Solid

Analysis Batch: 328173

Client Sample ID: MTA-B15 (1)

Prep Type: Total/NA

Prep Batch: 328124

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| PCB-1260               | ND            |                  | 0.116       | 0.0960    |              | mg/Kg | ☼ | 83   | 47 - 142     |
| Surrogate              | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| DCB Decachlorobiphenyl | 90            |                  | 39 - 142    |           |              |       |   |      |              |
| Tetrachloro-m-xylene   | 85            |                  | 35 - 129    |           |              |       |   |      |              |

Lab Sample ID: 580-94618-3 MSD

Matrix: Solid

Analysis Batch: 328173

Client Sample ID: MTA-B15 (1)

Prep Type: Total/NA

Prep Batch: 328124

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| PCB-1016               | ND            |                  | 0.109       | 0.0861     |               | mg/Kg | ☼ | 79   | 41 - 138     | 11  | 21    |
| PCB-1260               | ND            |                  | 0.109       | 0.0794     |               | mg/Kg | ☼ | 73   | 47 - 142     | 10  | 19    |
| Surrogate              | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| DCB Decachlorobiphenyl | 78            |                  | 39 - 142    |            |               |       |   |      |              |     |       |
| Tetrachloro-m-xylene   | 76            |                  | 35 - 129    |            |               |       |   |      |              |     |       |

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-328085/1-A

Matrix: Solid

Analysis Batch: 328185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328085

| Analyte              | MB Result    | MB Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------------|--------------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND           |              | 50       | 50 | mg/Kg |   | 05/11/20 18:06 | 05/12/20 19:12 | 1       |
| Motor Oil (>C24-C36) | ND           |              | 50       | 50 | mg/Kg |   | 05/11/20 18:06 | 05/12/20 19:12 | 1       |
| Surrogate            | MB %Recovery | MB Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl          | 64           |              | 50 - 150 |    |       |   | 05/11/20 18:06 | 05/12/20 19:12 | 1       |

Lab Sample ID: LCS 580-328085/2-A

Matrix: Solid

Analysis Batch: 328185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328085

| Analyte              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------------|---------------|---------------|---------------|-------|---|------|--------------|
| DRO C10-C24          | 500           | 492           |               | mg/Kg |   | 98   | 70 - 125     |
| Motor Oil (>C24-C36) | 500           | 471           |               | mg/Kg |   | 94   | 70 - 129     |
| Surrogate            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| o-Terphenyl          | 79            |               | 50 - 150      |       |   |      |              |

Lab Sample ID: LCSD 580-328085/3-A

Matrix: Solid

Analysis Batch: 328185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328085

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| DRO C10-C24 | 500         | 487         |                | mg/Kg |   | 97   | 70 - 125     | 1   | 16    |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-328085/3-A

Matrix: Solid

Analysis Batch: 328185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328085

| Analyte              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Motor Oil (>C24-C36) | 500            | 473            |                | mg/Kg |   | 95   | 70 - 129     | 0   | 16        |
| Surrogate            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| o-Terphenyl          | 77             |                | 50 - 150       |       |   |      |              |     |           |

Lab Sample ID: 580-94618-1 DU

Matrix: Solid

Analysis Batch: 328185

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328085

| Analyte              | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| DRO C10-C24          | ND            |                  | ND        |              | mg/Kg | ✱ | NC  | 35        |
| Motor Oil (>C24-C36) | 170           |                  | 159       |              | mg/Kg | ✱ | 8   | 35        |
| Surrogate            | DU %Recovery  | DU Qualifier     | Limits    |              |       |   |     |           |
| o-Terphenyl          | 79            |                  | 50 - 150  |              |       |   |     |           |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-328112/13-A

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | MB Result | MB Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 3.0  | 3.0  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Barium   | ND        |              | 0.50 | 0.50 | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Cadmium  | ND        |              | 1.0  | 1.0  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Chromium | ND        |              | 1.3  | 1.3  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Lead     | ND        |              | 1.5  | 1.5  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Selenium | ND        |              | 5.0  | 5.0  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |
| Silver   | ND        |              | 2.5  | 2.5  | mg/Kg |   | 05/12/20 08:44 | 05/13/20 12:26 | 1       |

Lab Sample ID: LCS 580-328112/14-A

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic  | 50.0        | 48.5       |               | mg/Kg |   | 97   | 80 - 120     |
| Barium   | 50.0        | 43.5       |               | mg/Kg |   | 87   | 80 - 120     |
| Cadmium  | 50.0        | 50.1       |               | mg/Kg |   | 100  | 80 - 120     |
| Chromium | 50.0        | 49.2       |               | mg/Kg |   | 98   | 80 - 120     |
| Lead     | 50.0        | 50.7       |               | mg/Kg |   | 101  | 80 - 120     |
| Selenium | 50.0        | 48.9       |               | mg/Kg |   | 98   | 80 - 120     |
| Silver   | 50.0        | 49.6       |               | mg/Kg |   | 99   | 80 - 120     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-328112/15-A

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 50.0        | 48.7        |                | mg/Kg |   | 97   | 80 - 120     | 0   | 20        |
| Barium   | 50.0        | 43.7        |                | mg/Kg |   | 87   | 80 - 120     | 1   | 20        |
| Cadmium  | 50.0        | 50.2        |                | mg/Kg |   | 100  | 80 - 120     | 0   | 20        |
| Chromium | 50.0        | 49.5        |                | mg/Kg |   | 99   | 80 - 120     | 1   | 20        |
| Lead     | 50.0        | 50.9        |                | mg/Kg |   | 102  | 80 - 120     | 0   | 20        |
| Selenium | 50.0        | 49.3        |                | mg/Kg |   | 99   | 80 - 120     | 1   | 20        |
| Silver   | 50.0        | 49.3        |                | mg/Kg |   | 99   | 80 - 120     | 1   | 20        |

Lab Sample ID: 580-94618-1 MS

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 7.3           |                  | 31.3        | 36.9      |              | mg/Kg | ⚠ | 95   | 80 - 120     |     |           |
| Barium   | 86            | F1               | 31.3        | 98.1      | F1           | mg/Kg | ⚠ | 40   | 80 - 120     |     |           |
| Cadmium  | ND            |                  | 31.3        | 32.3      |              | mg/Kg | ⚠ | 103  | 80 - 120     |     |           |
| Chromium | 69            |                  | 31.3        | 96.5      |              | mg/Kg | ⚠ | 89   | 80 - 120     |     |           |
| Lead     | 140           |                  | 31.3        | 158       | 4            | mg/Kg | ⚠ | 72   | 80 - 120     |     |           |
| Selenium | ND            |                  | 31.3        | 28.6      |              | mg/Kg | ⚠ | 91   | 80 - 120     |     |           |
| Silver   | ND            |                  | 31.3        | 30.5      |              | mg/Kg | ⚠ | 98   | 80 - 120     |     |           |

Lab Sample ID: 580-94618-1 MSD

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 7.3           |                  | 30.9        | 35.9       |               | mg/Kg | ⚠ | 93   | 80 - 120     | 3   | 20        |
| Barium   | 86            | F1               | 30.9        | 100        | F1            | mg/Kg | ⚠ | 48   | 80 - 120     | 2   | 20        |
| Cadmium  | ND            |                  | 30.9        | 31.4       |               | mg/Kg | ⚠ | 101  | 80 - 120     | 3   | 20        |
| Chromium | 69            |                  | 30.9        | 98.4       |               | mg/Kg | ⚠ | 96   | 80 - 120     | 2   | 20        |
| Lead     | 140           |                  | 30.9        | 183        | 4             | mg/Kg | ⚠ | 153  | 80 - 120     | 15  | 20        |
| Selenium | ND            |                  | 30.9        | 27.0       |               | mg/Kg | ⚠ | 87   | 80 - 120     | 6   | 20        |
| Silver   | ND            |                  | 30.9        | 29.4       |               | mg/Kg | ⚠ | 95   | 80 - 120     | 4   | 20        |

Lab Sample ID: 580-94618-1 DU

Matrix: Solid

Analysis Batch: 328298

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328112

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD  | RPD Limit |
|----------|---------------|------------------|-----------|--------------|-------|---|------|-----------|
| Arsenic  | 7.3           |                  | 8.66      |              | mg/Kg | ⚠ | 18   | 20        |
| Barium   | 86            | F1               | 85.6      |              | mg/Kg | ⚠ | 0.06 | 20        |
| Cadmium  | ND            |                  | ND        |              | mg/Kg | ⚠ | NC   | 20        |
| Chromium | 69            |                  | 72.7      |              | mg/Kg | ⚠ | 6    | 20        |
| Lead     | 140           |                  | 154       |              | mg/Kg | ⚠ | 13   | 20        |
| Selenium | ND            |                  | ND        |              | mg/Kg | ⚠ | NC   | 20        |
| Silver   | ND            |                  | ND        |              | mg/Kg | ⚠ | NC   | 20        |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-328109/17-A

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | MB Result | MB Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND        |              | 0.030 | 0.030 | mg/Kg |   | 05/12/20 07:38 | 05/12/20 11:50 | 1       |

Lab Sample ID: LCS 580-328109/18-A

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Mercury | 0.167       | 0.198      |               | mg/Kg |   | 119  | 80 - 120     |

Lab Sample ID: LCSD 580-328109/19-A

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.167       | 0.193       |                | mg/Kg |   | 116  | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-94618-1 MS

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Mercury | 0.10          | F1 F2            | 0.145       | 0.268     |              | mg/Kg | ☼ | 114  | 80 - 120     |

Lab Sample ID: 580-94618-1 MSD

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Mercury | 0.10          | F1 F2            | 0.156       | 0.218      | F1 F2         | mg/Kg | ☼ | 74   | 80 - 120     | 21  | 20        |

Lab Sample ID: 580-94618-1 DU

Matrix: Solid

Analysis Batch: 328143

Client Sample ID: MTA-B13 (1)

Prep Type: Total/NA

Prep Batch: 328109

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Mercury | 0.10          | F1 F2            | 0.0779    | F5           | mg/Kg | ☼ | 27  | 20        |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

**Client Sample ID: MTA-B13 (1)**

**Date Collected: 05/11/20 10:55**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-1**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

**Client Sample ID: MTA-B13 (1)**

**Date Collected: 05/11/20 10:55**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-1**

**Matrix: Solid**

**Percent Solids: 87.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 11:58       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328124       | 05/12/20 09:48       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328173       | 05/13/20 00:48       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328085       | 05/11/20 18:06       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328185       | 05/12/20 20:12       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 12:35       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 11:57       | A1B     | TAL SEA |

**Client Sample ID: MTA-B14 (1)**

**Date Collected: 05/11/20 11:12**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-2**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

**Client Sample ID: MTA-B14 (1)**

**Date Collected: 05/11/20 11:12**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-2**

**Matrix: Solid**

**Percent Solids: 86.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 12:27       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328124       | 05/12/20 09:48       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328173       | 05/13/20 01:06       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328085       | 05/11/20 18:06       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328185       | 05/12/20 20:52       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:09       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:11       | A1B     | TAL SEA |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

**Client Sample ID: MTA-B15 (1)**

**Date Collected: 05/11/20 11:20**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-3**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

**Client Sample ID: MTA-B15 (1)**

**Date Collected: 05/11/20 11:20**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-3**

**Matrix: Solid**

**Percent Solids: 83.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 12:52       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328124       | 05/12/20 09:48       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328173       | 05/13/20 01:24       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328085       | 05/11/20 18:06       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328185       | 05/12/20 21:13       | T1W     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:13       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:13       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-F**

**Date Collected: 05/11/20 12:20**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-4**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

**Client Sample ID: MTA-SP-F**

**Date Collected: 05/11/20 12:20**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-4**

**Matrix: Solid**

**Percent Solids: 89.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 13:16       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:17       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:15       | A1B     | TAL SEA |

**Client Sample ID: MTA-SP-G**

**Date Collected: 05/11/20 12:30**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-5**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

Eurofins TestAmerica, Seattle



# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

## Client Sample ID: MTA-SP-G

Date Collected: 05/11/20 12:30

Date Received: 05/11/20 14:15

## Lab Sample ID: 580-94618-5

Matrix: Solid

Percent Solids: 89.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 13:41       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:21       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:18       | A1B     | TAL SEA |

## Client Sample ID: MTA-SP-H

Date Collected: 05/11/20 12:43

Date Received: 05/11/20 14:15

## Lab Sample ID: 580-94618-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

## Client Sample ID: MTA-SP-H

Date Collected: 05/11/20 12:43

Date Received: 05/11/20 14:15

## Lab Sample ID: 580-94618-6

Matrix: Solid

Percent Solids: 90.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 14:05       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:24       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:20       | A1B     | TAL SEA |

## Client Sample ID: MTA-SP-I

Date Collected: 05/11/20 12:50

Date Received: 05/11/20 14:15

## Lab Sample ID: 580-94618-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

## Client Sample ID: MTA-SP-I

Date Collected: 05/11/20 12:50

Date Received: 05/11/20 14:15

## Lab Sample ID: 580-94618-7

Matrix: Solid

Percent Solids: 89.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 14:30       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:28       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:22       | A1B     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

**Client Sample ID: MTA-SP-J**

**Date Collected: 05/11/20 12:58**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-8**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328084       | 05/11/20 16:58       | JCM     | TAL SEA |

**Client Sample ID: MTA-SP-J**

**Date Collected: 05/11/20 12:58**

**Date Received: 05/11/20 14:15**

**Lab Sample ID: 580-94618-8**

**Matrix: Solid**

**Percent Solids: 89.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328086       | 05/11/20 18:25       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328200       | 05/13/20 14:55       | JCM     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328112       | 05/12/20 08:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010C        |     | 1               | 328298       | 05/13/20 13:31       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328109       | 05/12/20 07:38       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328143       | 05/12/20 12:24       | A1B     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-1

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

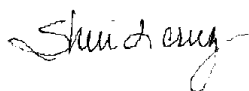
Laboratory Job ID: 580-94618-2

Client Project/Site: Mason Transit Authority

For:

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sarah Fees



Authorized for release by:  
7/2/2020 12:17:47 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

**Job ID: 580-94618-2**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

**Job Narrative**  
**580-94618-2**

## Comments

No additional comments.

## Receipt

The samples were received on 5/11/2020 2:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

## Receipt Exceptions

The following sample was activated for TCLP Pb only by 6010D analysis by the client on 6/30/2020: MTA-SP-G (580-94618-5). This analysis was not originally requested on the chain-of-custody (COC).

## Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |



## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-94618-5   | MTA-SP-G         | Solid  | 05/11/20 12:30 | 05/11/20 14:15 |          |

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# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 5/11/2020  
Page 1 of 1

Turnaround Time:  
Standard \_\_\_\_\_  
Accelerated 72 hr

Project Name Mason Transit Authority Project No. 1817001.010.012  
Project Location/Event Shelton, WA / confirmation sampling  
Sampler's Name Katie Gauglitz  
Project Contact Sarah Fees  
Send Results To S. Fees, D. Jorgensen

## Testing Parameters

94618  
Special Handling Requirements:  
Shipment Method drop off  
Stored on ice: Yes / No

|    | Sample I.D. | Date    | Time  | Matrix | No. of Containers | CPAH 8270D SIM | PCBs 8032A | PERA 8 Metals 6020J | NWTPH-Dx | Observations/Comments                                                                      |
|----|-------------|---------|-------|--------|-------------------|----------------|------------|---------------------|----------|--------------------------------------------------------------------------------------------|
| -1 | MTA-B13(1)  | 5/11/20 | 1055  | Soil   | 1                 | X              | X          | X                   | X        | Allow water samples to settle, collect aliquot from clear portion <input type="checkbox"/> |
|    | MTA-B14(1)  |         | 11:12 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
| -3 | MTA-B15(1)  |         | 11:20 |        | 1                 | X              | X          | X                   | X        | NWTPH-Dx - Acid wash cleanup <input type="checkbox"/>                                      |
|    | MTA-B16(1)  |         |       |        | 1                 | X              | X          | X                   | X        | - Silica gel cleanup <input type="checkbox"/>                                              |
|    | MTA-SP-F    |         | 12:20 |        | 1                 | X              | X          | X                   | X        | Dissolved metal samples were field filtered                                                |
| -5 | MTA-SP-G    |         | 12:30 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
|    | MTA-SP-H    |         | 12:43 |        | 1                 | X              | X          | X                   | X        |                                                                                            |
| -7 | MTA-SP-I    |         | 12:50 |        | 1                 | X              | X          | X                   | X        | Other _____                                                                                |
|    | MTA-SP-J    |         | 12:58 |        | 1                 | X              | X          | X                   | X        |                                                                                            |



580-94618 Chain of Custody

Therm. ID: A1 Cpr: 3.6° Unc: 3.8°  
Cooler Desc: Med blue  
Packing: two FedEx: \_\_\_\_\_  
Cust. Seal: Yes No \* UPS: \_\_\_\_\_  
Blue Ice: Yes Dry, None Other: Chloro

Relinquished by  
Signature Katie Gauglitz  
Printed Name Katie Gauglitz  
Company Landau Associates  
Date 5/11/2020 Time 14:15

Received by  
Signature Tom Blankinship  
Printed Name Blankinship  
Company TA-Sea  
Date 5/11/20 Time 1415

Relinquished by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Company \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-94618-2

**Login Number: 94618**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

## Method: 6010D - Metals (ICP) - TCLP

Client Sample ID: MTA-SP-G  
Date Collected: 05/11/20 12:30  
Date Received: 05/11/20 14:15

Lab Sample ID: 580-94618-5  
Matrix: Solid

| Analyte | Result | Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Lead    | 1.2    |           | 0.030 | 0.030 | mg/L |   | 07/01/20 08:10 | 07/01/20 22:41 | 1       |

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-331980/1-B

Matrix: Solid

Analysis Batch: 332162

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 332015

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|-------|------|---|----------------|----------------|---------|
| Lead    | ND           |                 | 0.030 | 0.030 | mg/L |   | 07/01/20 08:10 | 07/01/20 22:15 | 1       |

Lab Sample ID: LCS 580-331980/2-B

Matrix: Solid

Analysis Batch: 332162

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 332015

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Lead    | 1.00           | 1.11          |                  | mg/L |   | 111  | 80 - 120        |

Lab Sample ID: LCSD 580-331980/3-B

Matrix: Solid

Analysis Batch: 332162

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 332015

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|---------|----------------|----------------|-------------------|------|---|------|-----------------|-----|--------------|
| Lead    | 1.00           | 0.973          |                   | mg/L |   | 97   | 80 - 120        | 14  | 20           |

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

**Client Sample ID: MTA-SP-G**

**Lab Sample ID: 580-94618-5**

**Date Collected: 05/11/20 12:30**

**Matrix: Solid**

**Date Received: 05/11/20 14:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| TCLP      | Leach      | 1311         |     |                 | 331949       | 06/30/20 12:44       | ART     | TAL SEA |
| TCLP      | Prep       | 3010A        |     |                 | 332015       | 07/01/20 08:10       | ART     | TAL SEA |
| TCLP      | Analysis   | 6010D        |     | 1               | 332162       | 07/01/20 22:41       | TMH     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94618-2

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |



## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

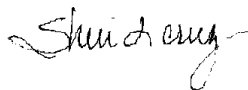
Laboratory Job ID: 580-94853-1

Client Project/Site: Mason Transit Authority  
Revision: 1

**For:**

Landau & Associates, Inc.  
2107 South C Street  
Tacoma, Washington 98402

Attn: Sierra Mott



Authorized for release by:  
5/27/2020 3:55:01 PM

Sheri Cruz, Project Manager I  
(253)922-2310  
[sheri.cruz@testamericainc.com](mailto:sheri.cruz@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

**Job ID: 580-94853-1**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### Job Narrative 580-94853-1

#### Comments

Revised to report 6010D to RL only on 5/27/2020.

#### Receipt

The samples were received on 5/21/2020 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

#### GC/MS Semi VOA

Method 8270D SIM: The following sample was diluted due to the nature of the sample matrix: MTA-B17 (3) (580-94853-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method 8082A: The following samples required a TBA clean-up to reduce matrix interferences caused by sulfur: MTA-B16 (1) (580-94853-1), MTA-B17 (3) (580-94853-2), MTA-B18 (3) (580-94853-3), MTA-B19 (3) (580-94853-4), MTA-B20 (3) (580-94853-5), MTA-B21 (3) (580-94853-6), (580-94853-A-6-D MS) and (580-94853-A-6-E MSD).

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MTA-B17 (3) (580-94853-2), MTA-B18 (3) (580-94853-3), MTA-B19 (3) (580-94853-4), MTA-B20 (3) (580-94853-5), MTA-B21 (3) (580-94853-6) and (580-94853-A-4-B DU).

Method NWTPH-Dx: The %D of surrogate (o-Terphenyl) for CCV associated with batch 580-328955 was outside the lower control limits. All associated sample surrogate fell within acceptance criteria; therefore, the data have been reported. (CCV 580-328955/14) and (CCVRT 580-328955/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Qualifiers

### Metals

| Qualifier | Qualifier Description                          |
|-----------|------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits. |
| F2        | MS/MSD RPD exceeds control limits              |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

## Sample Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 580-94853-1   | MTA-B16 (1)      | Solid  | 05/21/20 14:20 | 05/21/20 16:40 |          |
| 580-94853-2   | MTA-B17 (3)      | Solid  | 05/21/20 14:31 | 05/21/20 16:40 |          |
| 580-94853-3   | MTA-B18 (3)      | Solid  | 05/21/20 14:45 | 05/21/20 16:40 |          |
| 580-94853-4   | MTA-B19 (3)      | Solid  | 05/21/20 14:55 | 05/21/20 16:40 |          |
| 580-94853-5   | MTA-B20 (3)      | Solid  | 05/21/20 15:16 | 05/21/20 16:40 |          |
| 580-94853-6   | MTA-B21 (3)      | Solid  | 05/21/20 15:05 | 05/21/20 16:40 |          |



# Chain-of-Custody Record

☐ Seattle/Edmonds (425) 778-0907 ☐ Spokane (509) 327-9737  
☒ Tacoma (253) 926-2493 ☐ Portland (503) 542-1080

Date 5/21/2020  
 Page 1 of 1

Turnaround Time:  
 Standard \_\_\_\_\_  
 Accelerated 72 hr

Project Name Mason Transit Authority Project No. 1817001.010.012

Project Location/Event Shelton, WA

Sampler's Name Heather Rogers

Project Contact Sarah Fees

Send Results To S. Fees, D. Jorgensen

## Testing Parameters

94853

Special Handling Requirements:

Shipment Method: drop off

Stored on ice: ☒ Yes ☐ No

| Sample I.D.   | Date    | Time | Matrix | No. of Containers |
|---------------|---------|------|--------|-------------------|
| MTA - B16 (1) | 5/21/20 | 1420 | Soil   | 1                 |
| MTA - B17 (3) |         | 1431 |        | 1                 |
| MTA - B18 (3) |         | 1445 |        | 1                 |
| MTA - B19 (3) |         | 1455 |        | 1                 |
| MTA - B20 (3) |         | 1516 |        | 1                 |
| MTA - B21 (3) |         | 1505 |        | 1                 |

CPAH 82700 SIM  
 PCBs 8082 A  
 RCRA 8 Metals 6010  
 NWTPH - Dx

## Observations/Comments

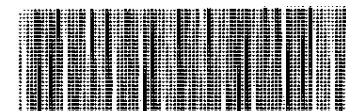
Allow water samples to settle, collect aliquot from clear portion ☐

NWTPH-Dx - Acid wash cleanup ☐

- Silica gel cleanup ☐

Dissolved metal samples were field filtered

Other \_\_\_\_\_



530-94853 Chain of Custody

Therm. ID: IR-7 Cor: 4.5 Unc: 4.3  
 Cooler Desc: Stra Blue FedEx: \_\_\_\_\_  
 Packing: box UPS: \_\_\_\_\_  
 Cust. Seal: Yes ☒ No ☐ Lab Cour: \_\_\_\_\_  
 Blue Ice: ☒ Wet ☐ Dry ☐ None Other: Clida

## Relinquished by

Signature [Signature]  
 Printed Name Heather Rogers  
 Company Landau Associates Inc  
 Date 5/21/2020 Time 1640

## Received by

Signature [Signature]  
 Printed Name Blankinship  
 Company TA-Sea  
 Date 5/21/20 Time 1640

## Relinquished by

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

## Received by

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 580-94853-1

**Login Number: 94853**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |



# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: MTA-B16 (1)  
Date Collected: 05/21/20 14:20  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-1  
Matrix: Solid  
Percent Solids: 94.3

| Analyte                | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Chrysene               | 6.7       |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Benzo[a]pyrene         | ND        |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Dibenz(a,h)anthracene  | ND        |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Benzo[b]fluoranthene   | 9.6       |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Benzo[k]fluoranthene   | ND        |           | 4.9      | 4.9 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 15:48 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 100       |           | 57 - 120 |     |       |   | 05/22/20 09:27 | 05/23/20 15:48 | 1       |

Client Sample ID: MTA-B17 (3)  
Date Collected: 05/21/20 14:31  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-2  
Matrix: Solid  
Percent Solids: 92.1

| Analyte                | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Chrysene               | 40        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Benzo[a]pyrene         | ND        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Indeno[1,2,3-cd]pyrene | ND        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Dibenz(a,h)anthracene  | ND        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Benzo[b]fluoranthene   | 42        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Benzo[k]fluoranthene   | ND        |           | 25       | 25 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:03 | 5       |
| Surrogate              | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 103       |           | 57 - 120 |    |       |   | 05/22/20 09:27 | 05/23/20 17:03 | 5       |

Client Sample ID: MTA-B18 (3)  
Date Collected: 05/21/20 14:45  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-3  
Matrix: Solid  
Percent Solids: 92.5

| Analyte                | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 34        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Chrysene               | 43        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Benzo[a]pyrene         | 27        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Indeno[1,2,3-cd]pyrene | 25        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Dibenz(a,h)anthracene  | 5.9       |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Benzo[b]fluoranthene   | 43        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Benzo[k]fluoranthene   | 16        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:28 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 98        |           | 57 - 120 |     |       |   | 05/22/20 09:27 | 05/23/20 17:28 | 1       |

Client Sample ID: MTA-B19 (3)  
Date Collected: 05/21/20 14:55  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-4  
Matrix: Solid  
Percent Solids: 91.2

| Analyte                | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 49     |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Chrysene               | 72     |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Benzo[a]pyrene         | 37     |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Indeno[1,2,3-cd]pyrene | 36     |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Dibenz(a,h)anthracene  | 8.3    |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Benzo[b]fluoranthene   | 76     |           | 5.2 | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: MTA-B19 (3)  
Date Collected: 05/21/20 14:55  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-4  
Matrix: Solid  
Percent Solids: 91.2

| Analyte              | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[k]fluoranthene | 22        |           | 5.2      | 5.2 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 17:53 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14        | 103       |           | 57 - 120 |     |       |   | 05/22/20 09:27 | 05/23/20 17:53 | 1       |

Client Sample ID: MTA-B20 (3)  
Date Collected: 05/21/20 15:16  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-5  
Matrix: Solid  
Percent Solids: 91.0

| Analyte                | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 26        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Chrysene               | 33        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Benzo[a]pyrene         | 17        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Indeno[1,2,3-cd]pyrene | 16        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Dibenz(a,h)anthracene  | ND        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Benzo[b]fluoranthene   | 38        |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Benzo[k]fluoranthene   | 7.7       |           | 5.1      | 5.1 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:18 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 100       |           | 57 - 120 |     |       |   | 05/22/20 09:27 | 05/23/20 18:18 | 1       |

Client Sample ID: MTA-B21 (3)  
Date Collected: 05/21/20 15:05  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-6  
Matrix: Solid  
Percent Solids: 90.5

| Analyte                | Result    | Qualifier | RL       | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | 11        |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Chrysene               | 19        |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Benzo[a]pyrene         | 7.6       |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Indeno[1,2,3-cd]pyrene | 8.8       |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Dibenz(a,h)anthracene  | ND        |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Benzo[b]fluoranthene   | 18        |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Benzo[k]fluoranthene   | 5.4       |           | 5.3      | 5.3 | ug/Kg | ☼ | 05/22/20 09:27 | 05/23/20 18:43 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| Terphenyl-d14          | 97        |           | 57 - 120 |     |       |   | 05/22/20 09:27 | 05/23/20 18:43 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MTA-B16 (1)  
Date Collected: 05/21/20 14:20  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-1  
Matrix: Solid  
Percent Solids: 94.3

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.020    | 0.0075 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1221               | ND        |           | 0.020    | 0.0043 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1232               | ND        |           | 0.020    | 0.0050 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1242               | ND        |           | 0.020    | 0.0036 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1248               | ND        |           | 0.020    | 0.0030 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1254               | ND        |           | 0.020    | 0.0038 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| PCB-1260               | ND        |           | 0.020    | 0.0075 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 114       |           | 39 - 142 |        |       |   | 05/22/20 09:17 | 05/23/20 14:48 | 1       |
| Tetrachloro-m-xylene   | 94        |           | 35 - 129 |        |       |   | 05/22/20 09:17 | 05/23/20 14:48 | 1       |

Client Sample ID: MTA-B17 (3)  
Date Collected: 05/21/20 14:31  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-2  
Matrix: Solid  
Percent Solids: 92.1

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.021    | 0.0079 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1221               | ND        |           | 0.021    | 0.0045 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1232               | ND        |           | 0.021    | 0.0053 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1242               | ND        |           | 0.021    | 0.0038 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1248               | ND        |           | 0.021    | 0.0031 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1254               | ND        |           | 0.021    | 0.0040 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| PCB-1260               | ND        |           | 0.021    | 0.0079 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 105       |           | 39 - 142 |        |       |   | 05/22/20 09:17 | 05/23/20 15:06 | 1       |
| Tetrachloro-m-xylene   | 93        |           | 35 - 129 |        |       |   | 05/22/20 09:17 | 05/23/20 15:06 | 1       |

Client Sample ID: MTA-B18 (3)  
Date Collected: 05/21/20 14:45  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-3  
Matrix: Solid  
Percent Solids: 92.5

| Analyte                | Result    | Qualifier | RL       | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| PCB-1016               | ND        |           | 0.022    | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1221               | ND        |           | 0.022    | 0.0045 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1232               | ND        |           | 0.022    | 0.0053 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1242               | ND        |           | 0.022    | 0.0038 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1248               | ND        |           | 0.022    | 0.0031 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1254               | ND        |           | 0.022    | 0.0040 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| PCB-1260               | ND        |           | 0.022    | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| Surrogate              | %Recovery | Qualifier | Limits   |        |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl | 114       |           | 39 - 142 |        |       |   | 05/22/20 09:17 | 05/23/20 15:24 | 1       |
| Tetrachloro-m-xylene   | 96        |           | 35 - 129 |        |       |   | 05/22/20 09:17 | 05/23/20 15:24 | 1       |

Client Sample ID: MTA-B19 (3)  
Date Collected: 05/21/20 14:55  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-4  
Matrix: Solid  
Percent Solids: 91.2

| Analyte  | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.022 | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| PCB-1221 | ND     |           | 0.022 | 0.0046 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| PCB-1232 | ND     |           | 0.022 | 0.0053 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: MTA-B19 (3)

Date Collected: 05/21/20 14:55

Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-4

Matrix: Solid

Percent Solids: 91.2

| Analyte  | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1242 | ND     |           | 0.022 | 0.0038 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| PCB-1248 | ND     |           | 0.022 | 0.0031 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| PCB-1254 | ND     |           | 0.022 | 0.0040 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| PCB-1260 | ND     |           | 0.022 | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:41 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 111       |           | 39 - 142 | 05/22/20 09:17 | 05/23/20 15:41 | 1       |
| Tetrachloro-m-xylene   | 95        |           | 35 - 129 | 05/22/20 09:17 | 05/23/20 15:41 | 1       |

Client Sample ID: MTA-B20 (3)

Date Collected: 05/21/20 15:16

Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-5

Matrix: Solid

Percent Solids: 91.0

| Analyte  | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.022 | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1221 | ND     |           | 0.022 | 0.0045 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1232 | ND     |           | 0.022 | 0.0053 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1242 | ND     |           | 0.022 | 0.0038 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1248 | ND     |           | 0.022 | 0.0031 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1254 | ND     |           | 0.022 | 0.0040 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| PCB-1260 | ND     |           | 0.022 | 0.0080 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 15:59 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 110       |           | 39 - 142 | 05/22/20 09:17 | 05/23/20 15:59 | 1       |
| Tetrachloro-m-xylene   | 95        |           | 35 - 129 | 05/22/20 09:17 | 05/23/20 15:59 | 1       |

Client Sample ID: MTA-B21 (3)

Date Collected: 05/21/20 15:05

Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-6

Matrix: Solid

Percent Solids: 90.5

| Analyte  | Result | Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND     |           | 0.021 | 0.0079 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1221 | ND     |           | 0.021 | 0.0045 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1232 | ND     |           | 0.021 | 0.0052 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1242 | ND     |           | 0.021 | 0.0037 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1248 | ND     |           | 0.021 | 0.0031 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1254 | ND     |           | 0.021 | 0.0039 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| PCB-1260 | ND     |           | 0.021 | 0.0079 | mg/Kg | ☼ | 05/22/20 09:17 | 05/23/20 16:17 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 111       |           | 39 - 142 | 05/22/20 09:17 | 05/23/20 16:17 | 1       |
| Tetrachloro-m-xylene   | 96        |           | 35 - 129 | 05/22/20 09:17 | 05/23/20 16:17 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: MTA-B16 (1)**  
**Date Collected: 05/21/20 14:20**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-1**  
**Matrix: Solid**  
**Percent Solids: 94.3**

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 52       | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:04 | 1       |
| Motor Oil (>C24-C36) | ND        |           | 52       | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:04 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl  | 79        |           | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 22:04 | 1       |

**Client Sample ID: MTA-B17 (3)**  
**Date Collected: 05/21/20 14:31**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-2**  
**Matrix: Solid**  
**Percent Solids: 92.1**

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 51       | 51 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:25 | 1       |
| Motor Oil (>C24-C36) | 140       |           | 51       | 51 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:25 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl  | 75        |           | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 22:25 | 1       |

**Client Sample ID: MTA-B18 (3)**  
**Date Collected: 05/21/20 14:45**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-3**  
**Matrix: Solid**  
**Percent Solids: 92.5**

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 49       | 49 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:45 | 1       |
| Motor Oil (>C24-C36) | 54        |           | 49       | 49 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 22:45 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl  | 82        |           | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 22:45 | 1       |

**Client Sample ID: MTA-B19 (3)**  
**Date Collected: 05/21/20 14:55**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-4**  
**Matrix: Solid**  
**Percent Solids: 91.2**

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 52       | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 23:05 | 1       |
| Motor Oil (>C24-C36) | 170       |           | 52       | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 23:05 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl  | 77        |           | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 23:05 | 1       |

**Client Sample ID: MTA-B20 (3)**  
**Date Collected: 05/21/20 15:16**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-5**  
**Matrix: Solid**  
**Percent Solids: 91.0**

| Analyte              | Result    | Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND        |           | 51       | 51 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 23:45 | 1       |
| Motor Oil (>C24-C36) | 110       |           | 51       | 51 | mg/Kg | ☼ | 05/22/20 08:56 | 05/22/20 23:45 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o</i> -Terphenyl  | 82        |           | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 23:45 | 1       |

**Client Sample ID: MTA-B21 (3)**  
**Date Collected: 05/21/20 15:05**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-6**  
**Matrix: Solid**  
**Percent Solids: 90.5**

| Analyte              | Result | Qualifier | RL | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND     |           | 52 | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/23/20 00:05 | 1       |
| Motor Oil (>C24-C36) | 97     |           | 52 | 52 | mg/Kg | ☼ | 05/22/20 08:56 | 05/23/20 00:05 | 1       |

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

| <i>Surrogate</i>   | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i>   | <i>Prepared</i>       | <i>Analyzed</i>       | <i>Dil Fac</i> |
|--------------------|------------------|------------------|-----------------|-----------------------|-----------------------|----------------|
| <i>o-Terphenyl</i> | <i>81</i>        |                  | <i>50 - 150</i> | <i>05/22/20 08:56</i> | <i>05/23/20 00:05</i> | <i>1</i>       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 6010D - Metals (ICP)

**Client Sample ID: MTA-B16 (1)**  
**Date Collected: 05/21/20 14:20**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-1**  
**Matrix: Solid**  
**Percent Solids: 94.3**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 4.7  | 4.7  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Barium   | 47     |           | 0.78 | 0.78 | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Cadmium  | ND     |           | 1.6  | 1.6  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Chromium | 52     |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Lead     | 14     | F2 F1     | 2.3  | 2.3  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Selenium | ND     |           | 7.8  | 7.8  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |
| Silver   | ND     |           | 3.9  | 3.9  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:25 | 1       |

**Client Sample ID: MTA-B17 (3)**  
**Date Collected: 05/21/20 14:31**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-2**  
**Matrix: Solid**  
**Percent Solids: 92.1**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 4.7  | 4.7  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Barium   | 73     |           | 0.78 | 0.78 | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Cadmium  | ND     |           | 1.6  | 1.6  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Chromium | 93     |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Lead     | 63     |           | 2.4  | 2.4  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Selenium | ND     |           | 7.8  | 7.8  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |
| Silver   | ND     |           | 3.9  | 3.9  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:50 | 1       |

**Client Sample ID: MTA-B18 (3)**  
**Date Collected: 05/21/20 14:45**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-3**  
**Matrix: Solid**  
**Percent Solids: 92.5**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 4.3  | 4.3  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Barium   | 54     |           | 0.71 | 0.71 | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Cadmium  | ND     |           | 1.4  | 1.4  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Chromium | 70     |           | 1.9  | 1.9  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Lead     | 26     |           | 2.1  | 2.1  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Selenium | ND     |           | 7.1  | 7.1  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |
| Silver   | ND     |           | 3.6  | 3.6  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:53 | 1       |

**Client Sample ID: MTA-B19 (3)**  
**Date Collected: 05/21/20 14:55**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-4**  
**Matrix: Solid**  
**Percent Solids: 91.2**

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | 5.1    |           | 4.7  | 4.7  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Barium   | 80     |           | 0.78 | 0.78 | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Cadmium  | ND     |           | 1.6  | 1.6  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Chromium | 82     |           | 2.0  | 2.0  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Lead     | 56     |           | 2.4  | 2.4  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Selenium | ND     |           | 7.8  | 7.8  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |
| Silver   | ND     |           | 3.9  | 3.9  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:56 | 1       |

**Client Sample ID: MTA-B20 (3)**  
**Date Collected: 05/21/20 15:16**  
**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-5**  
**Matrix: Solid**  
**Percent Solids: 91.0**

| Analyte | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic | ND     |           | 4.7  | 4.7  | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |
| Barium  | 78     |           | 0.78 | 0.78 | mg/Kg | ☼ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |

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# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 6010D - Metals (ICP) (Continued)

Client Sample ID: MTA-B20 (3)  
Date Collected: 05/21/20 15:16  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-5  
Matrix: Solid  
Percent Solids: 91.0

| Analyte  | Result | Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Cadmium  | ND     |           | 1.6 | 1.6 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |
| Chromium | 94     |           | 2.0 | 2.0 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |
| Lead     | 43     |           | 2.3 | 2.3 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |
| Selenium | ND     |           | 7.8 | 7.8 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |
| Silver   | ND     |           | 3.9 | 3.9 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 16:59 | 1       |

Client Sample ID: MTA-B21 (3)  
Date Collected: 05/21/20 15:05  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-6  
Matrix: Solid  
Percent Solids: 90.5

| Analyte  | Result | Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND     |           | 4.6  | 4.6  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Barium   | 77     |           | 0.76 | 0.76 | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Cadmium  | ND     |           | 1.5  | 1.5  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Chromium | 83     |           | 2.0  | 2.0  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Lead     | 35     |           | 2.3  | 2.3  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Selenium | ND     |           | 7.6  | 7.6  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |
| Silver   | ND     |           | 3.8  | 3.8  | mg/Kg | ⚠ | 05/22/20 09:39 | 05/26/20 17:02 | 1       |

# Client Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: MTA-B16 (1)  
Date Collected: 05/21/20 14:20  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-1  
Matrix: Solid  
Percent Solids: 94.3

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.025 | 0.025 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:31 | 1       |

Client Sample ID: MTA-B17 (3)  
Date Collected: 05/21/20 14:31  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-2  
Matrix: Solid  
Percent Solids: 92.1

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.027 | 0.027 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:40 | 1       |

Client Sample ID: MTA-B18 (3)  
Date Collected: 05/21/20 14:45  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-3  
Matrix: Solid  
Percent Solids: 92.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.026  |           | 0.025 | 0.025 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:47 | 1       |

Client Sample ID: MTA-B19 (3)  
Date Collected: 05/21/20 14:55  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-4  
Matrix: Solid  
Percent Solids: 91.2

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.033  |           | 0.025 | 0.025 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:50 | 1       |

Client Sample ID: MTA-B20 (3)  
Date Collected: 05/21/20 15:16  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-5  
Matrix: Solid  
Percent Solids: 91.0

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.029  |           | 0.026 | 0.026 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:52 | 1       |

Client Sample ID: MTA-B21 (3)  
Date Collected: 05/21/20 15:05  
Date Received: 05/21/20 16:40

Lab Sample ID: 580-94853-6  
Matrix: Solid  
Percent Solids: 90.5

| Analyte | Result | Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND     |           | 0.029 | 0.029 | mg/Kg | ☼ | 05/22/20 09:44 | 05/22/20 12:54 | 1       |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-328885/1-A

Matrix: Solid

Analysis Batch: 328957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328885

| Analyte                | MB Result | MB Qualifier | RL  | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Benzo[a]anthracene     | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Chrysene               | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 5.0 | ug/Kg |   | 05/22/20 09:27 | 05/23/20 14:58 | 1       |

| Surrogate     | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------|--------------|--------------|----------|----------------|----------------|---------|
| Terphenyl-d14 | 105          |              | 57 - 120 | 05/22/20 09:27 | 05/23/20 14:58 | 1       |

Lab Sample ID: LCS 580-328885/2-A

Matrix: Solid

Analysis Batch: 328957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328885

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Benzo[a]anthracene     | 1000        | 987        |               | ug/Kg |   | 99   | 66 - 120 |
| Chrysene               | 1000        | 985        |               | ug/Kg |   | 99   | 63 - 120 |
| Benzo[a]pyrene         | 1000        | 1010       |               | ug/Kg |   | 101  | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | 1000        | 1030       |               | ug/Kg |   | 103  | 65 - 132 |
| Dibenz(a,h)anthracene  | 1000        | 1100       |               | ug/Kg |   | 110  | 70 - 133 |
| Benzo[b]fluoranthene   | 1000        | 1030       |               | ug/Kg |   | 103  | 63 - 132 |
| Benzo[k]fluoranthene   | 1000        | 983        |               | ug/Kg |   | 98   | 63 - 131 |

| Surrogate     | LCS %Recovery | LCS Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 99            |               | 57 - 120 |

Lab Sample ID: 580-94853-1 MS

Matrix: Solid

Analysis Batch: 328957

Client Sample ID: MTA-B16 (1)

Prep Type: Total/NA

Prep Batch: 328885

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzo[a]anthracene     | ND            |                  | 973         | 965       |              | ug/Kg | ☼ | 99   | 66 - 120 |
| Chrysene               | 6.7           |                  | 973         | 962       |              | ug/Kg | ☼ | 98   | 63 - 120 |
| Benzo[a]pyrene         | ND            |                  | 973         | 976       |              | ug/Kg | ☼ | 100  | 72 - 124 |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 973         | 1010      |              | ug/Kg | ☼ | 104  | 65 - 132 |
| Dibenz(a,h)anthracene  | ND            |                  | 973         | 1070      |              | ug/Kg | ☼ | 110  | 70 - 133 |
| Benzo[b]fluoranthene   | 9.6           |                  | 973         | 1020      |              | ug/Kg | ☼ | 104  | 63 - 132 |
| Benzo[k]fluoranthene   | ND            |                  | 973         | 944       |              | ug/Kg | ☼ | 97   | 63 - 131 |

| Surrogate     | MS %Recovery | MS Qualifier | Limits   |
|---------------|--------------|--------------|----------|
| Terphenyl-d14 | 97           |              | 57 - 120 |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 580-94853-1 MSD

Matrix: Solid

Analysis Batch: 328957

Client Sample ID: MTA-B16 (1)

Prep Type: Total/NA

Prep Batch: 328885

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzo[a]anthracene     | ND            |                  | 989         | 1030       |               | ug/Kg | ☼ | 104  | 66 - 120     | 7   | 14        |
| Chrysene               | 6.7           |                  | 989         | 1000       |               | ug/Kg | ☼ | 101  | 63 - 120     | 4   | 10        |
| Benzo[a]pyrene         | ND            |                  | 989         | 1010       |               | ug/Kg | ☼ | 102  | 72 - 124     | 3   | 19        |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 989         | 1020       |               | ug/Kg | ☼ | 103  | 65 - 132     | 1   | 15        |
| Dibenz(a,h)anthracene  | ND            |                  | 989         | 1080       |               | ug/Kg | ☼ | 109  | 70 - 133     | 0   | 13        |
| Benzo[b]fluoranthene   | 9.6           |                  | 989         | 1030       |               | ug/Kg | ☼ | 104  | 63 - 132     | 2   | 25        |
| Benzo[k]fluoranthene   | ND            |                  | 989         | 960        |               | ug/Kg | ☼ | 97   | 63 - 131     | 2   | 15        |

| Surrogate     | MSD %Recovery | MSD Qualifier | Limits   |
|---------------|---------------|---------------|----------|
| Terphenyl-d14 | 97            |               | 57 - 120 |

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-328883/1-A

Matrix: Solid

Analysis Batch: 328968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328883

| Analyte  | MB Result | MB Qualifier | RL    | MDL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-------|--------|-------|---|----------------|----------------|---------|
| PCB-1016 | ND        |              | 0.020 | 0.0074 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1221 | ND        |              | 0.020 | 0.0042 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1232 | ND        |              | 0.020 | 0.0049 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1242 | ND        |              | 0.020 | 0.0035 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1248 | ND        |              | 0.020 | 0.0029 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1254 | ND        |              | 0.020 | 0.0037 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| PCB-1260 | ND        |              | 0.020 | 0.0074 | mg/Kg |   | 05/22/20 09:17 | 05/23/20 14:13 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 116          |              | 39 - 142 | 05/22/20 09:17 | 05/23/20 14:13 | 1       |
| Tetrachloro-m-xylene   | 94           |              | 35 - 129 | 05/22/20 09:17 | 05/23/20 14:13 | 1       |

Lab Sample ID: LCS 580-328883/2-A

Matrix: Solid

Analysis Batch: 328968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328883

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| PCB-1016 | 0.100       | 0.105      |               | mg/Kg |   | 105  | 41 - 138     |
| PCB-1260 | 0.100       | 0.107      |               | mg/Kg |   | 107  | 47 - 142     |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| DCB Decachlorobiphenyl | 118           |               | 39 - 142 |
| Tetrachloro-m-xylene   | 95            |               | 35 - 129 |

Lab Sample ID: 580-94853-6 MS

Matrix: Solid

Analysis Batch: 328968

Client Sample ID: MTA-B21 (3)

Prep Type: Total/NA

Prep Batch: 328883

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| PCB-1016 | ND            |                  | 0.110       | 0.108     |              | mg/Kg | ☼ | 99   | 41 - 138     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 580-94853-6 MS

Matrix: Solid

Analysis Batch: 328968

Client Sample ID: MTA-B21 (3)

Prep Type: Total/NA

Prep Batch: 328883

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| PCB-1260               | ND            |                  | 0.110       | 0.115     |              | mg/Kg | ☼ | 105  | 47 - 142     |
| Surrogate              | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| DCB Decachlorobiphenyl | 110           |                  | 39 - 142    |           |              |       |   |      |              |
| Tetrachloro-m-xylene   | 96            |                  | 35 - 129    |           |              |       |   |      |              |

Lab Sample ID: 580-94853-6 MSD

Matrix: Solid

Analysis Batch: 328968

Client Sample ID: MTA-B21 (3)

Prep Type: Total/NA

Prep Batch: 328883

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| PCB-1016               | ND            |                  | 0.106       | 0.109      |               | mg/Kg | ☼ | 103  | 41 - 138     | 1   | 21    |
| PCB-1260               | ND            |                  | 0.106       | 0.112      |               | mg/Kg | ☼ | 106  | 47 - 142     | 2   | 19    |
| Surrogate              | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| DCB Decachlorobiphenyl | 111           |                  | 39 - 142    |            |               |       |   |      |              |     |       |
| Tetrachloro-m-xylene   | 96            |                  | 35 - 129    |            |               |       |   |      |              |     |       |

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-328880/1-A

Matrix: Solid

Analysis Batch: 328955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328880

| Analyte              | MB Result    | MB Qualifier | RL       | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------|--------------|--------------|----------|----|-------|---|----------------|----------------|---------|
| DRO C10-C24          | ND           |              | 50       | 50 | mg/Kg |   | 05/22/20 08:56 | 05/22/20 21:04 | 1       |
| Motor Oil (>C24-C36) | ND           |              | 50       | 50 | mg/Kg |   | 05/22/20 08:56 | 05/22/20 21:04 | 1       |
| Surrogate            | MB %Recovery | MB Qualifier | Limits   |    |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl          | 80           |              | 50 - 150 |    |       |   | 05/22/20 08:56 | 05/22/20 21:04 | 1       |

Lab Sample ID: LCS 580-328880/2-A

Matrix: Solid

Analysis Batch: 328955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328880

| Analyte              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------------|---------------|---------------|---------------|-------|---|------|--------------|
| DRO C10-C24          | 500           | 539           |               | mg/Kg |   | 108  | 70 - 125     |
| Motor Oil (>C24-C36) | 500           | 534           |               | mg/Kg |   | 107  | 70 - 129     |
| Surrogate            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| o-Terphenyl          | 83            |               | 50 - 150      |       |   |      |              |

Lab Sample ID: LCSD 580-328880/3-A

Matrix: Solid

Analysis Batch: 328955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328880

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| DRO C10-C24 | 500         | 550         |                | mg/Kg |   | 110  | 70 - 125     | 2   | 16    |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-328880/3-A

Matrix: Solid

Analysis Batch: 328955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328880

| Analyte              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Motor Oil (>C24-C36) | 500            | 553            |                | mg/Kg |   | 111  | 70 - 129     | 3   | 16        |
| Surrogate            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| o-Terphenyl          | 81             |                | 50 - 150       |       |   |      |              |     |           |

Lab Sample ID: 580-94853-4 DU

Matrix: Solid

Analysis Batch: 328955

Client Sample ID: MTA-B19 (3)

Prep Type: Total/NA

Prep Batch: 328880

| Analyte              | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| DRO C10-C24          | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 35        |
| Motor Oil (>C24-C36) | 170           |                  | 130       |              | mg/Kg | ☼ | 24  | 35        |
| Surrogate            | DU %Recovery  | DU Qualifier     | Limits    |              |       |   |     |           |
| o-Terphenyl          | 78            |                  | 50 - 150  |              |       |   |     |           |

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-328886/10-A

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | MB Result | MB Qualifier | RL   | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|------|-------|---|----------------|----------------|---------|
| Arsenic  | ND        |              | 3.0  | 3.0  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Barium   | ND        |              | 0.50 | 0.50 | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Cadmium  | ND        |              | 1.0  | 1.0  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Chromium | ND        |              | 1.3  | 1.3  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Lead     | ND        |              | 1.5  | 1.5  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Selenium | ND        |              | 5.0  | 5.0  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |
| Silver   | ND        |              | 2.5  | 2.5  | mg/Kg |   | 05/22/20 09:39 | 05/26/20 16:16 | 1       |

Lab Sample ID: LCS 580-328886/11-A

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Arsenic  | 50.0        | 44.8       |               | mg/Kg |   | 90   | 80 - 120     |
| Barium   | 50.0        | 46.3       |               | mg/Kg |   | 93   | 80 - 120     |
| Cadmium  | 50.0        | 46.0       |               | mg/Kg |   | 92   | 80 - 120     |
| Chromium | 50.0        | 49.2       |               | mg/Kg |   | 98   | 80 - 120     |
| Lead     | 50.0        | 46.9       |               | mg/Kg |   | 94   | 80 - 120     |
| Selenium | 50.0        | 44.6       |               | mg/Kg |   | 89   | 80 - 120     |
| Silver   | 50.0        | 46.9       |               | mg/Kg |   | 94   | 80 - 120     |

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-328886/12-A

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | 50.0        | 46.4        |                | mg/Kg |   | 93   | 80 - 120     | 3   | 20        |
| Barium   | 50.0        | 48.4        |                | mg/Kg |   | 97   | 80 - 120     | 4   | 20        |
| Cadmium  | 50.0        | 47.7        |                | mg/Kg |   | 95   | 80 - 120     | 4   | 20        |
| Chromium | 50.0        | 51.2        |                | mg/Kg |   | 102  | 80 - 120     | 4   | 20        |
| Lead     | 50.0        | 48.5        |                | mg/Kg |   | 97   | 80 - 120     | 3   | 20        |
| Selenium | 50.0        | 46.5        |                | mg/Kg |   | 93   | 80 - 120     | 4   | 20        |
| Silver   | 50.0        | 49.4        |                | mg/Kg |   | 99   | 80 - 120     | 5   | 20        |

Lab Sample ID: 580-94853-1 MS

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: MTA-B16 (1)

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | ND            |                  | 68.7        | 63.5      |              | mg/Kg | ☼ | 92   | 80 - 120     |     |           |
| Barium   | 47            |                  | 68.7        | 127       |              | mg/Kg | ☼ | 116  | 80 - 120     |     |           |
| Cadmium  | ND            |                  | 68.7        | 68.3      |              | mg/Kg | ☼ | 99   | 80 - 120     |     |           |
| Chromium | 52            |                  | 68.7        | 122       |              | mg/Kg | ☼ | 101  | 80 - 120     |     |           |
| Lead     | 14 F2 F1      |                  | 68.7        | 81.5      |              | mg/Kg | ☼ | 98   | 80 - 120     |     |           |
| Selenium | ND            |                  | 68.7        | 63.1      |              | mg/Kg | ☼ | 92   | 80 - 120     |     |           |
| Silver   | ND            |                  | 68.7        | 66.2      |              | mg/Kg | ☼ | 96   | 80 - 120     |     |           |

Lab Sample ID: 580-94853-1 MSD

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: MTA-B16 (1)

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Arsenic  | ND            |                  | 71.6        | 75.8       |               | mg/Kg | ☼ | 106  | 80 - 120     | 18  | 20        |
| Barium   | 47            |                  | 71.6        | 117        |               | mg/Kg | ☼ | 98   | 80 - 120     | 8   | 20        |
| Cadmium  | ND            |                  | 71.6        | 68.7       |               | mg/Kg | ☼ | 96   | 80 - 120     | 1   | 20        |
| Chromium | 52            |                  | 71.6        | 115        |               | mg/Kg | ☼ | 87   | 80 - 120     | 6   | 20        |
| Lead     | 14 F2 F1      |                  | 71.6        | 895 F1 F2  |               | mg/Kg | ☼ | 1231 | 80 - 120     | 167 | 20        |
| Selenium | ND            |                  | 71.6        | 64.1       |               | mg/Kg | ☼ | 90   | 80 - 120     | 2   | 20        |
| Silver   | ND            |                  | 71.6        | 68.2       |               | mg/Kg | ☼ | 95   | 80 - 120     | 3   | 20        |

Lab Sample ID: 580-94853-1 DU

Matrix: Solid

Analysis Batch: 329127

Client Sample ID: MTA-B16 (1)

Prep Type: Total/NA

Prep Batch: 328886

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|-------|---|-----|-----------|
| Arsenic  | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 20        |
| Barium   | 47            |                  | 46.2      |              | mg/Kg | ☼ | 1   | 20        |
| Cadmium  | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 20        |
| Chromium | 52            |                  | 45.3      |              | mg/Kg | ☼ | 15  | 20        |
| Lead     | 14 F2 F1      |                  | 16.4      |              | mg/Kg | ☼ | 13  | 20        |
| Selenium | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 20        |
| Silver   | ND            |                  | ND        |              | mg/Kg | ☼ | NC  | 20        |

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# QC Sample Results

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-328887/17-A  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | MB<br>Result | MB<br>Qualifier | RL    | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|-------|-------|-------|---|----------------|----------------|---------|
| Mercury | ND           |                 | 0.030 | 0.030 | mg/Kg |   | 05/22/20 09:44 | 05/22/20 12:20 | 1       |

Lab Sample ID: LCS 580-328887/18-A  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | Limits   |
|---------|----------------|---------------|------------------|-------|---|------|----------|
| Mercury | 0.167          | 0.156         |                  | mg/Kg |   | 94   | 80 - 120 |

Lab Sample ID: LCSD 580-328887/19-A  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|---------|----------------|----------------|-------------------|-------|---|------|----------|-----|-------|
| Mercury | 0.167          | 0.156          |                   | mg/Kg |   | 93   | 80 - 120 | 0   | 20    |

Lab Sample ID: 580-94853-1 MS  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: MTA-B16 (1)  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | Limits   |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Mercury | ND               |                     | 0.126          | 0.135        |                 | mg/Kg | ☼ | 107  | 80 - 120 |

Lab Sample ID: 580-94853-1 MSD  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: MTA-B16 (1)  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-----|-------|
| Mercury | ND               |                     | 0.149          | 0.150         |                  | mg/Kg | ☼ | 101  | 80 - 120 | 11  | 20    |

Lab Sample ID: 580-94853-1 DU  
Matrix: Solid  
Analysis Batch: 328934

Client Sample ID: MTA-B16 (1)  
Prep Type: Total/NA  
Prep Batch: 328887

| Analyte | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit  | D | RPD | Limit |
|---------|------------------|---------------------|--------------|-----------------|-------|---|-----|-------|
| Mercury | ND               |                     | ND           |                 | mg/Kg | ☼ | NC  | 20    |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

**Client Sample ID: MTA-B16 (1)**

**Date Collected: 05/21/20 14:20**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-1**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B16 (1)**

**Date Collected: 05/21/20 14:20**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-1**

**Matrix: Solid**

**Percent Solids: 94.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 328957       | 05/23/20 15:48       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 14:48       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/22/20 22:04       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 16:25       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:31       | A1B     | TAL SEA |

**Client Sample ID: MTA-B17 (3)**

**Date Collected: 05/21/20 14:31**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-2**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B17 (3)**

**Date Collected: 05/21/20 14:31**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-2**

**Matrix: Solid**

**Percent Solids: 92.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 5               | 328957       | 05/23/20 17:03       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 15:06       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/22/20 22:25       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 16:50       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:40       | A1B     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

**Client Sample ID: MTA-B18 (3)**

**Date Collected: 05/21/20 14:45**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-3**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B18 (3)**

**Date Collected: 05/21/20 14:45**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-3**

**Matrix: Solid**

**Percent Solids: 92.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 328957       | 05/23/20 17:28       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 15:24       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/22/20 22:45       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 16:53       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:47       | A1B     | TAL SEA |

**Client Sample ID: MTA-B19 (3)**

**Date Collected: 05/21/20 14:55**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-4**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B19 (3)**

**Date Collected: 05/21/20 14:55**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-4**

**Matrix: Solid**

**Percent Solids: 91.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 328957       | 05/23/20 17:53       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 15:41       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/22/20 23:05       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 16:56       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:50       | A1B     | TAL SEA |

Eurofins TestAmerica, Seattle

# Lab Chronicle

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

**Client Sample ID: MTA-B20 (3)**

**Date Collected: 05/21/20 15:16**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-5**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B20 (3)**

**Date Collected: 05/21/20 15:16**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-5**

**Matrix: Solid**

**Percent Solids: 91.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 328957       | 05/23/20 18:18       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 15:59       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/22/20 23:45       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 16:59       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:52       | A1B     | TAL SEA |

**Client Sample ID: MTA-B21 (3)**

**Date Collected: 05/21/20 15:05**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-6**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540G        |     | 1               | 328915       | 05/22/20 11:34       | JKM     | TAL SEA |

**Client Sample ID: MTA-B21 (3)**

**Date Collected: 05/21/20 15:05**

**Date Received: 05/21/20 16:40**

**Lab Sample ID: 580-94853-6**

**Matrix: Solid**

**Percent Solids: 90.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 328885       | 05/22/20 09:27       | HBP     | TAL SEA |
| Total/NA  | Analysis   | 8270D SIM    |     | 1               | 328957       | 05/23/20 18:43       | JKM     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328883       | 05/22/20 09:17       | ACV     | TAL SEA |
| Total/NA  | Analysis   | 8082A        |     | 1               | 328968       | 05/23/20 16:17       | TL1     | TAL SEA |
| Total/NA  | Prep       | 3546         |     |                 | 328880       | 05/22/20 08:56       | HBP     | TAL SEA |
| Total/NA  | Analysis   | NWTPH-Dx     |     | 1               | 328955       | 05/23/20 00:05       | W1T     | TAL SEA |
| Total/NA  | Prep       | 3050B        |     |                 | 328886       | 05/22/20 09:39       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 6010D        |     | 1               | 329127       | 05/26/20 17:02       | TMH     | TAL SEA |
| Total/NA  | Prep       | 7471A        |     |                 | 328887       | 05/22/20 09:44       | A1B     | TAL SEA |
| Total/NA  | Analysis   | 7471A        |     | 1               | 328934       | 05/22/20 12:54       | A1B     | TAL SEA |

## Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins TestAmerica, Seattle

## Accreditation/Certification Summary

Client: Landau & Associates, Inc.  
Project/Site: Mason Transit Authority

Job ID: 580-94853-1

### Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-024                | 01-14-22        |
| ANAB               | Dept. of Defense ELAP | L2236                 | 01-19-22        |
| ANAB               | ISO/IEC 17025         | L2236                 | 01-20-23        |
| California         | State                 | 2901                  | 11-05-20        |
| Montana (UST)      | State                 | NA                    | 04-13-21        |
| Oregon             | NELAP                 | WA100007              | 11-06-20        |
| US Fish & Wildlife | US Federal Programs   | 058448                | 07-31-20        |
| USDA               | US Federal Programs   | P330-20-00031         | 02-10-23        |
| Washington         | State                 | C553                  | 02-18-21        |

## **2019 and 2020 Waste Manifests**

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|-------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                      |  | 1. Generator ID Number<br><b>NA</b>    | 2. Page 1 of<br><b>1</b>                                                                                              | 3. Emergency Response Phone<br><b>(800) 337-7455</b> | 4. Waste Tracking Number<br><b>MTA-052120-01</b> |                   |
| 5. Generator's Name and Mailing Address<br><b>Miscan Transit Authority<br/>750 E John's Prairie Rd<br/>Shelton, WA 98584</b>                                                                                                                                                                                                                                             |  |                                        | Generator's Site Address (if different than mailing address)<br><b>535 West Railroad Avenue<br/>Shelton, WA 98584</b> |                                                      |                                                  |                   |
| Generator's Phone:<br><b>(206) 482-5750 Attn: Donette Hannin</b>                                                                                                                                                                                                                                                                                                         |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 6. Transporter 1 Company Name<br><b>OH Environmental, Inc.</b>                                                                                                                                                                                                                                                                                                           |  |                                        | U.S. EPA ID Number<br><b>WAH000047217</b>                                                                             |                                                      |                                                  |                   |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                                        | U.S. EPA ID Number                                                                                                    |                                                      |                                                  |                   |
| 8. Designated Facility Name and Site Address<br><b>Latarge North America<br/>5400 W Marginal Way SW<br/>Seattle, WA 98146</b>                                                                                                                                                                                                                                            |  |                                        | U.S. EPA ID Number<br><b>NA</b>                                                                                       |                                                      |                                                  |                   |
| Facility's Phone:<br><b>(206) 923-5618</b>                                                                                                                                                                                                                                                                                                                               |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers                         |                                                                                                                       | 11. Total Quantity                                   | 12. Unit Wt./Vol.                                |                   |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                                    | Type                                                                                                                  |                                                      |                                                  |                   |
| 1. <b>Material Not Regulated by CDT (non-regulated RCW soil)</b>                                                                                                                                                                                                                                                                                                         |  | <b>01</b>                              | <b>DM</b>                                                                                                             | <b>150</b>                                           | <b>P</b>                                         |                   |
| 2. <b>Material Not Regulated by CDT (non-regulated RCW water)</b>                                                                                                                                                                                                                                                                                                        |  | <b>01</b>                              | <b>DM</b>                                                                                                             | <b>150</b>                                           | <b>P</b>                                         |                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 13. Special Handling Instructions and Additional Information<br><b>182: ONE-ROW Waste - Miscan Transit Authority</b>                                                                                                                                                                                                                                                     |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| Generator's/Offendor's Printed/Typed Name<br><b>On behalf of MTA Leonard J. Warnock</b>                                                                                                                                                                                                                                                                                  |  | Signature<br><i>Leonard J. Warnock</i> |                                                                                                                       | Month<br><b>05</b>                                   | Day<br><b>21</b>                                 | Year<br><b>20</b> |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.                                                                                                                                                                                                                                                            |  | Port of entry/exit:                    |                                                                                                                       | Date leaving U.S.:                                   |                                                  |                   |
| Transporter Signature (for exports only):                                                                                                                                                                                                                                                                                                                                |  | Date leaving U.S.:                     |                                                                                                                       |                                                      |                                                  |                   |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| Transporter 1 Printed/Typed Name<br><b>Leonard J. Warnock</b>                                                                                                                                                                                                                                                                                                            |  | Signature<br><i>Leonard J. Warnock</i> |                                                                                                                       | Month<br><b>05</b>                                   | Day<br><b>21</b>                                 | Year<br><b>20</b> |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  | Signature                              |                                                                                                                       | Month                                                | Day                                              | Year              |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 17b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 17c. Signature of Alternate Facility (or Generator) Month Day Year                                                                                                                                                                                                                                                                                                       |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                                        |                                                                                                                       |                                                      |                                                  |                   |
| Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                       |  | Signature                              |                                                                                                                       | Month                                                | Day                                              | Year              |



# OLYMPIC VIEW TRANSFER ST BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459467  
ACCT: 1361  
BILL TO: WM OVS  
TRJCK: RWS 45  
DATE: 07/09/20  
TIME IN: 01:04 PM  
TIME OUT: 01:11 PM  
OPERATOR: JAF

GR: 110140 TR: 41420 NET: 68720  
ADJUSTED NET LBS: 68720  
TONS: 55.07 TR: 20.71 NET: 34.36

NET WEIGHT 68720 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

|                                                        |      |                                                              |
|--------------------------------------------------------|------|--------------------------------------------------------------|
| X                                                      | CS-2 | Pre-Pack                                                     |
| Generator Name & Address                               |      | Billing Name & Address                                       |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001 |      | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001 |
| Contact: Ryan Burks<br>Phone: (253)797-9661            |      | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661  |
| Acknowledgement of Loading                             |      |                                                              |
| Name (Please Print) <u>Scott Windschell</u>            |      | Company <u>RW Scott</u>                                      |
| Signature <u>[Signature]</u>                           |      | Date <u>7-9-20</u>                                           |

|                                                                                                                          |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Deliver To                                                                                                               | Disposal Facility                                                                                        |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | Columbia Ridge Landfill & R<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030         |
| Transporter Name                                                                                                         | Waste Profile Information (1)                                                                            |
| Transporter Name: <u>Scott Windschell</u>                                                                                | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>45</u>                                                                                                       | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <input type="text"/>                                                                                  | Other: <u>Contaminated Soil</u>                                                                          |
|                                                                                                                          | Expiration Date: <u>7/07/2021</u>                                                                        |

|                                                     |                    |                    |                    |
|-----------------------------------------------------|--------------------|--------------------|--------------------|
| Weight                                              |                    |                    |                    |
| Gross: <u>110140</u>                                | Tare: <u>41420</u> | Net: <u>68720</u>  | Tons: <u>55.07</u> |
| Signature                                           |                    |                    |                    |
| Drivers Name (Please Print) <u>Scott Windschell</u> |                    |                    |                    |
| Drivers Signature <u>[Signature]</u>                |                    | Date <u>7-9-20</u> |                    |

# OLYMPIC VIEW TRANSFER BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

|                            |  |                        |  |
|----------------------------|--|------------------------|--|
| x CS-2                     |  | Pre-Pack               |  |
| Generator Name & Address   |  | Billing Name & Address |  |
|                            |  | VIA WMSALES            |  |
| Contact:                   |  | Contact:               |  |
| Phone:                     |  | Phone:                 |  |
| Acknowledgement of Loading |  |                        |  |
| SCOT WINSHELL              |  | RW SCOTT               |  |
| Name (Please Print)        |  | Company                |  |
| SCOT WINSHELL              |  | 7/9/2020               |  |
| Signature                  |  | Date                   |  |

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459231  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW SCOTT 45  
DATE: 07/09/20  
TIME IN: 08:50 AM  
TIME OUT: 08:58 AM  
OPERATOR: JAF

GR: 108320 TR: 41620 NET: 66700  
ADJUSTED NET LBS: 66700  
TONS: 54.16 TR: 20.81 NET: 33.35

NET WEIGHT 66700 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

|                                                                                                                          |             |                                                                                                                 |             |
|--------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------|-------------|
| Deliver To                                                                                                               |             | Disposal Facility                                                                                               |             |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm |             | Columbia Ridge Landfill & Recycling Center<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |             |
| Transporter Name                                                                                                         |             | Waste Profile Information                                                                                       |             |
| Transporter Name: RW SCOTT                                                                                               |             | Waste Profile #: 115319WA                                                                                       |             |
| Truck #: 45                                                                                                              |             | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW        |             |
| Container #: WMXU-                                                                                                       |             | Other: Contaminated Soil                                                                                        |             |
|                                                                                                                          |             | Expiration Date: N/A                                                                                            |             |
| Weight                                                                                                                   |             |                                                                                                                 |             |
| Gross: 108320                                                                                                            | Tare: 41620 | Net: 66700                                                                                                      | Tons: 33.35 |
| Signature                                                                                                                |             |                                                                                                                 |             |
| SCOT WINSHELL                                                                                                            |             |                                                                                                                 |             |
| Drivers Name (Please Print)                                                                                              |             |                                                                                                                 |             |
| SCOT WINSHELL                                                                                                            |             |                                                                                                                 |             |
| Drivers Signature                                                                                                        |             |                                                                                                                 |             |
| Date 7/9/2020                                                                                                            |             |                                                                                                                 |             |

# OLYMPIC VIEW TRANSFER STATION BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459346  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW 44  
DATE: 07/09/20  
TIME IN: 11:00 AM  
TIME OUT: 11:09 AM  
OPERATOR: JAF  
  
GR: 94200 TR: 41540 NET: 52660  
ADJUSTED NET LBS: 52660  
TONS: 47.10 TR: 20.77 NET: 26.33  
  
NET WEIGHT  
RATE: 52660 @  
/TN OR .0375/LB  
  
CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

|                                                                                                                          |                    |                                                                                                          |                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|--------------------|
| X CS-2                                                                                                                   |                    | Pre-Pack                                                                                                 |                    |
| <b>Generator Name &amp; Address</b>                                                                                      |                    | <b>Billing Name &amp; Address</b>                                                                        |                    |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001                                                                   |                    | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001                                             |                    |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                                              |                    | Contact: Ryan Burks<br>Phone: (253)797-9661                                                              |                    |
| <b>Acknowledgement of Loading</b>                                                                                        |                    |                                                                                                          |                    |
| Name (Please Print) <u>Scott W. Wenschel</u>                                                                             |                    | Company <u>RW Scott</u>                                                                                  |                    |
| Signature <u>[Signature]</u>                                                                                             |                    | Date <u>7-9-20</u>                                                                                       |                    |
| <b>Deliver To</b>                                                                                                        |                    | <b>Disposal Facility</b>                                                                                 |                    |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm |                    | Columbia Ridge Landfill &<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 (1)       |                    |
| <b>Transporter Name</b>                                                                                                  |                    | <b>Waste Profile Information</b>                                                                         |                    |
| Transporter Name: <u>Scott W. Wenschel</u>                                                                               |                    | Waste Profile #: <u>115319WA</u>                                                                         |                    |
| Truck #: <u>45</u>                                                                                                       |                    | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |                    |
| Container #: WMXU- <input type="text"/>                                                                                  |                    | Other: <u>Contaminated Soil</u>                                                                          |                    |
|                                                                                                                          |                    | Expiration Date: <u>7/07/2021</u>                                                                        |                    |
| <b>Weight</b>                                                                                                            |                    |                                                                                                          |                    |
| Gross: <u>94200</u>                                                                                                      | Tare: <u>41540</u> | Net: <u>52660</u>                                                                                        | Tons: <u>47.10</u> |
| <b>Signature</b>                                                                                                         |                    |                                                                                                          |                    |
| Drivers Name (Please Print) <u>Scott W. Wenschel</u>                                                                     |                    |                                                                                                          |                    |
| Drivers Signature <u>[Signature]</u>                                                                                     |                    | Date <u>7-9-20</u>                                                                                       |                    |



# OLYMPIC VIEW TRANSFER S BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

|                                                                                                                          |                    |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|
| X CS-2                                                                                                                   |                    | Pre-Pack                                                                                                 |
| <b>Generator Name &amp; Address</b>                                                                                      |                    | <b>Billing Name &amp; Address</b>                                                                        |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001                                                                   |                    | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001                                             |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                                              |                    | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661                                              |
| <b>Acknowledgement of Loading</b>                                                                                        |                    |                                                                                                          |
| <u>Scott W. Winschell</u><br>Name (Please Print)                                                                         |                    | <u>RW Scott</u><br>Company                                                                               |
| <u>Scott W. Winschell</u><br>Signature                                                                                   |                    | <u>7-10-20</u><br>Date                                                                                   |
| <b>Deliver To</b>                                                                                                        |                    | <b>Disposal Facility</b>                                                                                 |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm |                    | Columbia Ridge Landfill<br>18177 Cedar Springs Lan<br>Arlington, OR 97812<br>(541) 454-2030              |
| <b>Transporter Name</b>                                                                                                  |                    | <b>Waste Profile Information</b>                                                                         |
| Transporter Name: <u>Scott W. Winschell</u>                                                                              |                    | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>45</u>                                                                                                       |                    | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <u>                    </u>                                                                           |                    | Other: <u>Contaminated Soil</u>                                                                          |
|                                                                                                                          |                    | Expiration Date: <u>7/07/2021</u>                                                                        |
| <b>Weight</b>                                                                                                            |                    |                                                                                                          |
| Gross: <u>118880</u>                                                                                                     | Tare: <u>41480</u> | Net: <u>77200</u> Tons: <u>59.44</u>                                                                     |
| <b>Signature</b>                                                                                                         |                    |                                                                                                          |
| <u>Scott W. Winschell</u><br>Drivers Name (Please Print)                                                                 |                    |                                                                                                          |
| <u>Scott W. Winschell</u><br>Drivers Signature                                                                           |                    |                                                                                                          |
| <u>7-10-20</u><br>Date                                                                                                   |                    |                                                                                                          |

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459742  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS 45  
DATE: 07/10/20  
TIME IN: 08:27 AM  
TIME OUT: 08:37 AM  
OPERATOR: JAF

GR: 118880 TR: 41680 NET: 77200  
ADJUSTED NET LBS: 77200  
TONS: 59.44 TR: 20.84 NET: 38.60

NET WEIGHT 77200 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

# OLYMPIC VIEW TRANSFER S BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

|                                          |                        |
|------------------------------------------|------------------------|
| <input checked="" type="checkbox"/> CS-2 | Pre-Pack               |
| Generator Name & Address                 | Billing Name & Address |
|                                          | VIA WM SALES           |
| Contact:                                 | Contact:               |
| Phone:                                   | Phone:                 |

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459234  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW SCOTT 22  
DATE: 07/09/20  
TIME IN: 08:55 AM  
TIME OUT: 09:06 AM  
OPERATOR: JAF

GR: 94900 TR: 41040 NET: 53860  
ADJUSTED NET LBS: 53860  
TONS: 47.45 TR: 20.52 NET: 26.93

NET WEIGHT 53860 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

## Acknowledgement of Loading

|                                           |                            |
|-------------------------------------------|----------------------------|
| <u>Kenny Boyle</u><br>Name (Please Print) | <u>RW Scott</u><br>Company |
| <u>[Signature]</u><br>Signature           | <u>7/9/2020</u><br>Date    |

|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b><br>Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm                                                              | <b>Disposal Facility</b><br>Columbia Ridge Landfill & Recycling Center<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030                                                                                                        |
| <b>Transporter Name</b><br>Transporter Name: <u>RW Scott</u><br>Truck #: <u>22</u><br>Container #: WMXU- <span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px;"></span> | <b>Waste Profile Information</b><br>Waste Profile #: <u>115319WA</u><br>Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW<br>Other: <u>Contaminated Soil</u><br>Expiration Date: <u>N/A</u> |

## Weight

Gross: 94900 Tare: 41040 Net: 53860 Tons: 26.93

## Signature

Kenny Boyle  
Drivers Name (Please Print)  
[Signature]  
Drivers Signature  
Date 7/9/2020



# OLYMPIC VIEW TRANSFER STATION BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459495  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW 22  
DATE: 07/09/20  
TIME IN: 01:25 PM  
TIME OUT: 01:34 PM  
OPERATOR: JAF

GR: 102380 TR: 40820 NET: 61560  
ADJUSTED NET LBS: 61560  
TONS: 51.19 TR: 20.41 NET: 30.78

NET WEIGHT 61560 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

(1)

|                                                        |      |                                                              |
|--------------------------------------------------------|------|--------------------------------------------------------------|
| X                                                      | CS-2 | Pre-Pack                                                     |
| <b>Generator Name &amp; Address</b>                    |      | <b>Billing Name &amp; Address</b>                            |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001 |      | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001 |
| Contact: Ryan Burks<br>Phone: (253)797-9661            |      | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661  |
| <b>Acknowledgement of Loading</b>                      |      |                                                              |
| Name (Please Print) <u>Kenny Boyle</u>                 |      | Company <u>RW Scott</u>                                      |
| Signature <u>[Signature]</u>                           |      | Date <u>7-9-20</u>                                           |

|                                                                                                                          |                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b>                                                                                                        | <b>Disposal Facility</b>                                                                               |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | Columbia Ridge Landfill & Recycli<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |

|                                         |                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Transporter Name</b>                 | <b>Waste Profile Information</b>                                                                         |
| Transporter Name: <u>RW Scott</u>       | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>ZZ</u>                      | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <input type="text"/> | Other: <u>Contaminated Soil</u>                                                                          |
|                                         | Expiration Date: <u>07/07/2021</u>                                                                       |

|                                                |                    |                    |                    |
|------------------------------------------------|--------------------|--------------------|--------------------|
| <b>Weight</b>                                  |                    |                    |                    |
| Gross: <u>102380</u>                           | Tare: <u>40820</u> | Net: <u>61560</u>  | Tons: <u>51.19</u> |
| <b>Signature</b>                               |                    |                    |                    |
| Drivers Name (Please Print) <u>Kenny Boyle</u> |                    |                    |                    |
| Drivers Signature <u>[Signature]</u>           |                    | Date <u>7-9-20</u> |                    |

# OLYMPIC VIEW TRANSFER S<sup>T</sup> BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459373  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW 22  
DATE: 07/09/20  
TIME IN: 11:21 AM  
TIME OUT: 11:31 AM  
OPERATOR: JAF

GR: 100800 TR: 40920 NET: 59880  
ADJUSTED NET LBS: 59880  
TONS: 50.40 TR: 20.46 NET: 29.94

NET WEIGHT 59880 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

|                                                                                               |                                                                                                   |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> CS-2                                                      | Pre-Pack                                                                                          |
| <b>Generator Name &amp; Address</b><br>Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001 | <b>Billing Name &amp; Address</b><br>RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001 |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                   | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661                                       |
| <b>Acknowledgement of Loading</b>                                                             |                                                                                                   |
| <u>Kenny Boyle</u><br>Name (Please Print)                                                     | <u>RW Scott</u><br>Company                                                                        |
| <u>[Signature]</u><br>Signature                                                               | <u>7/9/2020</u><br>Date                                                                           |

|                                                                                                                                               |                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b><br>Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | <b>Disposal Facility</b><br>Columbia Ridge Landfill &<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|

## Transporter Name Waste Profile Information

|                                      |                                                                                                          |
|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| Transporter Name: <u>RW Scott</u>    | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>22</u>                   | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <u>          </u> | Other: <u>Contaminated Soil</u>                                                                          |
|                                      | Expiration Date: <u>07/07/2021</u>                                                                       |

## Weight

Gross: 100800 Tare: 40920 Net: 59880 Tons: 50.40

## Signature

Kenny Boyle  
Drivers Name (Please Print)  
[Signature]  
Drivers Signature

7/9/2020  
Date



# OLYMPIC VIEW TRANSFER STA BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

|                                                                                                                          |                    |                                                                                                          |                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|--------------------|
| X CS-2                                                                                                                   |                    | Pre-Pack                                                                                                 |                    |
| <b>Generator Name &amp; Address</b>                                                                                      |                    | <b>Billing Name &amp; Address</b>                                                                        |                    |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001                                                                   |                    | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001                                             |                    |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                                              |                    | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661                                              |                    |
| <b>Acknowledgement of Loading</b>                                                                                        |                    |                                                                                                          |                    |
| <u>Scott W. Wenschel</u><br>Name (Please Print)<br><u>Scott Wenschel</u><br>Signature                                    |                    | <u>RW Scott</u><br>Company<br><u>7-10-20</u><br>Date                                                     |                    |
| <b>Deliver To</b>                                                                                                        |                    | <b>Disposal Facility</b>                                                                                 |                    |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm |                    | Columbia Ridge Landfill & Rec<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030       |                    |
| <b>Transporter Name</b>                                                                                                  |                    | <b>Waste Profile Information</b>                                                                         |                    |
| Transporter Name: <u>Scott W. Wenschel</u>                                                                               |                    | Waste Profile #: <u>115319WA</u>                                                                         |                    |
| Truck #: <u>45</u>                                                                                                       |                    | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |                    |
| Container #: WMXU- <u>                    </u>                                                                           |                    | Other: <u>Contaminated Soil</u>                                                                          |                    |
|                                                                                                                          |                    | Expiration Date: <u>7/07/2021</u>                                                                        |                    |
| <b>Weight</b>                                                                                                            |                    |                                                                                                          |                    |
| Gross: <u>122 740</u>                                                                                                    | Tare: <u>41520</u> | Net: <u>81220</u>                                                                                        | Tons: <u>61.37</u> |
| <b>Signature</b>                                                                                                         |                    |                                                                                                          |                    |
| <u>Scott W. Wenschel</u><br>Drivers Name (Please Print)<br><u>Scott Wenschel</u><br>Drivers Signature                    |                    |                                                                                                          |                    |
| <u>7-10-20</u><br>Date                                                                                                   |                    |                                                                                                          |                    |

TICKET# 1459871  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS 45  
DATE: 07/10/20  
TIME IN: 11:00 AM  
TIME OUT: 11:11 AM  
OPERATOR: JAE

GR: 122740 TR: 41520 NET: 81220  
ADJUSTED NET LBS: 81220  
TONS: 61.37 TR: 20.76 NET: 40.61

NET WEIGHT 81220 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

(1)

**OLYMPIC VIEW TRANSFER !  
BILL OF LADING**

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

|                                                                                                                                              |                    |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|
| <b>X</b>                                                                                                                                     | <b>CS-2</b>        | <b>Pre-Pack</b>                                                                                          |
| <b>Generator Name &amp; Address</b>                                                                                                          |                    | <b>Billing Name &amp; Address</b>                                                                        |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001                                                                                       |                    | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001                                             |
| Contact: Ryan Burks<br><br>Phone: (253)797-9661                                                                                              |                    | VIA WM SALES<br><br>Contact: Ryan Burks<br><br>Phone: (253)797-9661                                      |
| <b>Acknowledgement of Loading</b>                                                                                                            |                    |                                                                                                          |
| <u>Scott Wenschel</u><br>Name (Please Print)                                                                                                 |                    | <u>RW Scott</u><br>Company                                                                               |
| <u>Scott Wenschel</u><br>Signature                                                                                                           |                    | <u>7-10-20</u><br>Date                                                                                   |
| <b>Deliver To</b>                                                                                                                            |                    | <b>Disposal Facility</b>                                                                                 |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm                     |                    | Columbia Ridge Landfill<br>18177 Cedar Springs Lan<br>Arlington, OR 97812<br>(541) 454-2030              |
| <b>Transporter Name</b>                                                                                                                      |                    | <b>Waste Profile Information</b> <span style="float: right;">(1)</span>                                  |
| Transporter Name: <u>Scott Wenschel</u>                                                                                                      |                    | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>45</u>                                                                                                                           |                    | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px; vertical-align: middle;"></span> |                    | Other: <u>Contaminated Soil</u>                                                                          |
|                                                                                                                                              |                    | Expiration Date: <u>7/07/2021</u>                                                                        |
| <b>Weight</b>                                                                                                                                |                    |                                                                                                          |
| Gross: <u>69480</u>                                                                                                                          | Tare: <u>41400</u> | Net: <u>28080</u> Tons: <u>34.74</u>                                                                     |
| <b>Signature</b>                                                                                                                             |                    |                                                                                                          |
| <u>Scott Wenschel</u><br>Drivers Name (Please Print)                                                                                         |                    |                                                                                                          |
| <u>Scott Wenschel</u><br>Drivers Signature                                                                                                   |                    | <u>7-10-20</u><br>Date                                                                                   |

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1460003  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS 45  
DATE: 07/10/20  
TIME IN: 01:09 PM  
TIME OUT: 01:15 PM  
OPERATOR: JAF

GR: 69480 TR: 41400 NET: 28080  
ADJUSTED NET LBS: 28080  
TONS: 34.74 TR: 20.70 NET: 14.04

NET WEIGHT 28080 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

# OLYMPIC VIEW TRANSFER ST BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459473  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS 44  
DATE: 07/09/20  
TIME IN: 01:10 PM  
TIME OUT: 01:18 PM  
OPERATOR: JAF

GR: 110260 TR: 41900 NET: 68360  
ADJUSTED NET LBS: 68360  
TONS: 55.13 TR: 20.95 NET: 34.18

NET WEIGHT 68360 @  
RATE: /TN OR .0375/LB

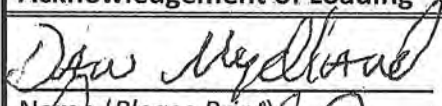
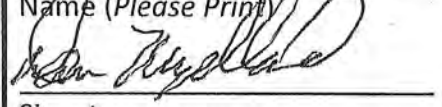
CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

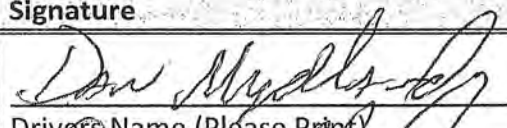
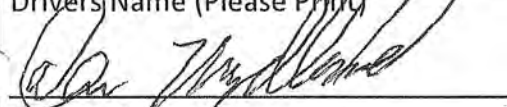
|                                                                                               |                                                                                                   |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| X CS-2                                                                                        | Pre-Pack                                                                                          |
| <b>Generator Name &amp; Address</b><br>Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001 | <b>Billing Name &amp; Address</b><br>RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001 |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                   | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661                                       |

|                                                                                                          |                     |
|----------------------------------------------------------------------------------------------------------|---------------------|
| <b>Acknowledgement of Loading</b>                                                                        |                     |
| <br>Name (Please Print) | RW Scott<br>Company |
| <br>Signature           | 7-9-20<br>Date      |

|                                                                                                                                               |                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b><br>Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | <b>Disposal Facility</b><br>Columbia Ridge Landfill & Re<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

|                                                                                            |                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Transporter Name</b><br>Transporter Name: RW Scott<br>Truck #: 44<br>Container #: WMXU- | <b>Waste Profile Information</b><br>Waste Profile #: 115319WA<br>Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW<br>Other: Contaminated Soil<br>Expiration Date: 7/07/2021 |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |             |            |             |
|---------------|-------------|------------|-------------|
| <b>Weight</b> |             |            |             |
| Gross: 110260 | Tare: 41900 | Net: 68360 | Tons: 55.13 |

|                                                                                                                    |                |
|--------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Signature</b>                                                                                                   |                |
| <br>Drivers Name (Please Print) |                |
| <br>Drivers Signature           | 7-9-20<br>Date |



# OLYMPIC VIEW TRANSFER STA BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459353  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RW SCOTT 44  
DATE: 07/09/20  
TIME IN: 08:53 AM  
TIME OUT: 11:15 AM  
OPERATOR: JAF

GR: 105680 TR: 42000 NET: 63680  
ADJUSTED NET LBS: 63680  
TONS: 52.84 TR: 21.00 NET: 31.84

NET WEIGHT 63680 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE: 115319WA

(1)

|                                                                                                 |                                                                                                                   |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| x CS-2                                                                                          | Pre-Pack                                                                                                          |
| <b>Generator Name &amp; Address</b><br>Ryan Burks<br>4005 West Valley<br>Hwy Auburn WA<br>98001 | <b>Billing Name &amp; Address</b><br>RW Scott Const.<br>4005 West Valley<br>Hwy Auburn WA<br>98001<br>VIA WMSALES |
| Contact: Ryan Burks<br>Phone: (253) 797-9661                                                    | Contact: Ryan Burks<br>Phone: (253) 797-9661                                                                      |
| <b>Acknowledgement of Loading</b>                                                               |                                                                                                                   |
| <u>Dan Mydlard</u><br>Name (Please Print)                                                       | <u>RW Scott</u><br>Company                                                                                        |
| <u>Dan Mydlard</u><br>Signature                                                                 | <u>7/9/2020</u><br>Date                                                                                           |

|                                                                                                                                               |                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b><br>Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | <b>Disposal Facility</b><br>Columbia Ridge Landfill & Recy<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |
| <b>Transporter Name</b>                                                                                                                       | <b>Waste Profile Information</b>                                                                                                |
| Transporter Name: <u>RW Scott</u>                                                                                                             | Waste Profile #: <u>115319WA</u>                                                                                                |
| Truck #: <u>44</u>                                                                                                                            | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW                        |
| Container #: WMXU- <input type="text"/>                                                                                                       | Other: <u>Contaminated Soil</u>                                                                                                 |
|                                                                                                                                               | Expiration Date: <u>N/A</u>                                                                                                     |

## Weight

Gross: 105680 Tare: 42000 Net: 63680 Tons: 52.84

## Signature

Dan Mydlard  
Drivers Name (Please Print)  
Dan Mydlard  
Drivers Signature

7/9/2020  
Date

# OLYMPIC VIEW TRANSFER STAT BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459354  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS 44  
DATE: 07/09/20  
TIME IN: 11:06 AM  
TIME OUT: 11:16 AM  
OPERATOR: JAF

GR: 103880 TR: 42000 NET: 61880  
ADJUSTED NET LBS: 618  
TONS: 51.94 TR: 21.00 NET: 30.94

NET WEIGHT 61880 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

(1)

|                                                        |      |                                                              |
|--------------------------------------------------------|------|--------------------------------------------------------------|
| X                                                      | CS-2 | Pre-Pack                                                     |
| <b>Generator Name &amp; Address</b>                    |      | <b>Billing Name &amp; Address</b>                            |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001 |      | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001 |
| Contact: Ryan Burks<br>Phone: (253)797-9661            |      | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661  |
| <b>Acknowledgement of Loading</b>                      |      |                                                              |
| Name (Please Print) <u>Don Myddelton</u>               |      | Company <u>RW Scott</u>                                      |
| Signature <u>[Signature]</u>                           |      | Date <u>7/9/2020</u>                                         |

|                                                                                                                          |                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Deliver To</b>                                                                                                        | <b>Disposal Facility</b>                                                                             |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm | Columbia Ridge Landfill & Recyc<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 |

|                                      |                                                                                                          |
|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Transporter Name</b>              | <b>Waste Profile Information</b>                                                                         |
| Transporter Name: <u>RW Scott</u>    | Waste Profile #: <u>115319WA</u>                                                                         |
| Truck #: <u>44</u>                   | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU- <u>          </u> | Other: <u>Contaminated Soil</u>                                                                          |
|                                      | Expiration Date: <u>7/07/2021</u>                                                                        |

|                      |                    |                   |                    |
|----------------------|--------------------|-------------------|--------------------|
| <b>Weight</b>        |                    |                   |                    |
| Gross: <u>103880</u> | Tare: <u>42000</u> | Net: <u>61880</u> | Tons: <u>51.94</u> |

|                                                  |
|--------------------------------------------------|
| <b>Signature</b>                                 |
| Drivers Name (Please Print) <u>Don Myddelton</u> |
| Drivers Signature <u>[Signature]</u>             |
| Date <u>7/9/2020</u>                             |



# OLYMPIC VIEW TRANSFER ST BILL OF LADING

KITSAP COUNTY PUBLIC WORKS  
OLYMPIC VIEW TRANSFER STATION  
360-337-4988

\* \* NEW RATES START JULY 1, 2020 \* \*

TICKET# 1459747  
ACCT: 1361  
BILL TO: WM OVTS  
TRUCK: RWS44  
DATE: 07/10/20  
TIME IN: 08:29 AM  
TIME OUT: 08:42 AM  
OPERATOR: JAF

GR: 112200 TR: 42060 NET: 70140  
ADJUSTED NET LBS: 70140  
TONS: 56.10 TR: 21.03 NET: 35.07

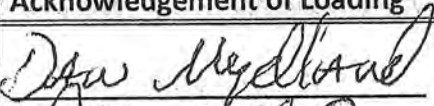
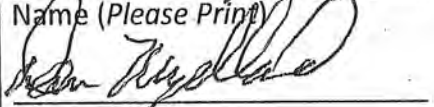
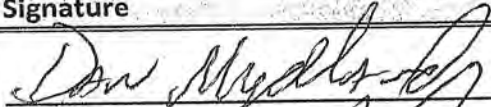
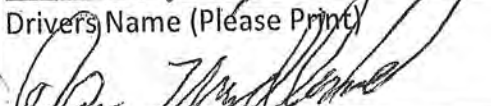
NET WEIGHT 70140 @  
RATE: /TN OR .0375/LB

CS2

TIP FEE:  
SPEC FEE:  
TAX FEE:  
TOTAL FEE:  
TENDERED:  
CHANGE:

PAYMENT:

NOTE:

|                                                                                                                          |             |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|
| X CS-2                                                                                                                   |             | Pre-Pack                                                                                                 |
| <b>Generator Name &amp; Address</b>                                                                                      |             | <b>Billing Name &amp; Address</b>                                                                        |
| Ryan Burks<br>4005 West Valley Hwy<br>Auburn, WA 98001                                                                   |             | RW Scott Const.<br>4005 West Valley Hwy.<br>Auburn, WA 98001                                             |
| Contact: Ryan Burks<br>Phone: (253)797-9661                                                                              |             | VIA WM SALES<br>Contact: Ryan Burks<br>Phone: (253)797-9661                                              |
| <b>Acknowledgement of Loading</b>                                                                                        |             |                                                                                                          |
| <br>Name (Please Print)                 |             | RW Scott<br>Company                                                                                      |
| <br>Signature                           |             | 7-10-20<br>Date                                                                                          |
| <b>Deliver To</b>                                                                                                        |             | <b>Disposal Facility</b>                                                                                 |
| Olympic View Transfer Station<br>9380 SW Barney White Road<br>Bremerton, WA 98312<br>(360) 674-2297, M-F 8:00am - 5:00pm |             | Columbia Ridge Landfill & F<br>18177 Cedar Springs Lane<br>Arlington, OR 97812<br>(541) 454-2030 (1)     |
| <b>Transporter Name</b>                                                                                                  |             | <b>Waste Profile Information</b>                                                                         |
| Transporter Name: RW Scott                                                                                               |             | Waste Profile #: 115319WA                                                                                |
| Truck #: 44                                                                                                              |             | Waste Type: <input type="checkbox"/> Asbestos <input type="checkbox"/> Demo <input type="checkbox"/> MSW |
| Container #: WMXU-                                                                                                       |             | Other: Contaminated Soil                                                                                 |
|                                                                                                                          |             | Expiration Date: 7/07/2021                                                                               |
| <b>Weight</b>                                                                                                            |             |                                                                                                          |
| Gross: 112200                                                                                                            | Tare: 42060 | Net: 70140 Tons: 56.10                                                                                   |
| <b>Signature</b>                                                                                                         |             |                                                                                                          |
| <br>Drivers Name (Please Print)       |             |                                                                                                          |
| <br>Drivers Signature                 |             | 7-10-20<br>Date                                                                                          |