

## **APPENDIX A**

### **Construction Photographs**



Photo 1. Perimeter air monitoring station A.



Photo 2. Contaminated soil/debris pile under white polyethylene cover, with treatment enclosure (tent) in background.



Photo 3. Eastern end of soil/debris pile uncovered, ready to begin loading to mixer.



Photo 4. Loading soil/debris onto mixer mounted on skid-steer. (3-inch screen on mixer screens out oversize debris.)



Photo 5. Adding treatment reagent (Portland cement) to soil batch in mixer.



Photo 6. Discharging treated soil from mixer into Super Sack.



Photo 7. Treated soil curing in Super Sacks.



Photo 8. Paving in progress (1<sup>st</sup> view).



Photo 9. Paving in progress (2<sup>nd</sup> view).



Photo 10. Finished paved surface.

## **APPENDIX B**

### **Remedial Action Management Plan (Excluding Contractor's HASP)**

**Remedial Action Management Plan  
Mercury Soil Treatment and Disposal Project  
Bellingham, Washington**

**October 2017**

ERRG Project No. 20170131

Prepared for:



Port of Bellingham  
1801 Roeder Avenue  
Bellingham, Washington 98225

Prepared by:



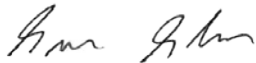
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**Remedial Action Management Plan  
Mercury Soil Treatment and Disposal Project  
Bellingham, Washington**

*Submitted by:  
Engineering/Remediation Resources Group, Inc.*



10/5/2017

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Signature

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Date

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Spencer Slominski, PE, PMP

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Project Manager

Name

Title

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# Abbreviations and Acronyms

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Aspect	Aspect Consulting, LLC
BMPs	best management practices
BNSF	Burlington Northern Santa Fe Railway
ERRG	Engineering/Remediation Resources Group, Inc.
GP	Georgia Pacific
HASP	Health and Safety Plan
IA	Interim Action
LDR	land disposal restrictions
MTCA	Model Toxics Control Act
Port	Port of Bellingham
PPE	personal protective equipment
RAMP	Remedial Action Work Plan
RAU	remedial action unit
RI/FS	remedial investigation/feasibility study
SDSs	safety data sheets
SOW	statement of work
TESC	temporary erosion and sediment control
TSDf	treatment, storage and disposal facility
WAC	Washington Administrative Code
wt%	weight percent

## Section 1. Introduction

---

Engineering/Remediation Resources Group, Inc. (ERRG) has prepared this Remedial Action Management Plan (RAMP) in support of the treatment and disposal of mercury contaminated soil and debris at the Georgia-Pacific West Site (site) in Bellingham, Washington ([Figure 1](#)). The site is being cleaned up by the Port of Bellingham (PORT) under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D of the Revised Code of Washington, and the Model Toxics Control Act Cleanup Regulation, Chapter 173-340 of the Washington Administrative Code (WAC).

The primary concern at the site is exposure of humans to elevated concentrations of mercury from past operations at the site. The objective of the project is to treat and dispose of mercury contaminated material present on the site, and then construct asphalt cover over an unpaved portion of the site.

The cleanup is being implemented in accordance with the project-specific health and safety plan (HASP) ([Appendix A](#)) and the statement of work and supporting documentation included in the Bid Specifications. The project scope includes the following:

1. Implement and maintain best management practices (BMPs) for temporary erosion and sediment control to maintain compliance with applicable permits, laws, regulations, and ordinances throughout construction.
2. Manage waters generated by the construction work using the existing stormwater system to meet water quality standards and to maintain compliance with permit requirements.
3. Excavate, segregate oversize debris, conduct on-site soil treatment, and transport off-site for Subtitle C landfill disposal an estimated 720 tons of mercury-contaminated soil and debris, while capturing and treating mercury air emissions during those activities.
4. Upon completion of mercury-contaminated soil and debris operations, prepare subgrade and construct asphalt pavement across an approximately 0.5-acre unpaved area.
5. Maintain site security, limit public access to site, and conduct work activities without interference to other construction projects or Port tenant operations.
6. At project completion, prepare and submit to the Port and Port's Engineer required project completion documentation, including records of types, quantities, and location for all materials disposed offsite, and records of types and quantities of material imported.

## 1.1. SITE BACKGROUND

The site, located at 300 West Laurel Street in Bellingham, Washington, encompasses approximately 64 acres on the south side of the Whatcom Waterway. The site is bordered on the north by the Whatcom Waterway (at mudline), on the east and south by the Burlington Northern Santa Fe Railway (BNSF) main line, and on the west by the Bellingham Shipping Terminal and Bellingham Bay ([Aspect Consulting, LLC \[Aspect\], 2011](#)).

A Pulp and Tissue Mill operated at the site from 1926 through 2007. A Chlor-Alkali Plant, producing chlorine gas and sodium hydroxide (caustic) using a mercury cell technology, operated within a portion of the Mill between 1965 and 1999. Contamination from historical industrial activities on the site has impacted upland soils and groundwater with a variety of constituents including mercury and other metals, and petroleum hydrocarbons ([Aspect, 2011](#)).

In 1999 and 2002, Georgia-Pacific (GP) entered into a pair of Agreed Orders with Ecology to perform plant decommissioning and a remedial investigation/feasibility study (RI/FS) for the Chlor-Alkali Plant portion of the site. In addition to decommissioning the former Chlor-Alkali Plant's process equipment and machinery in 2000, GP independently conducted significant environmental investigation (including an RI/FS) and cleanup work for the Chlor-Alkali Plant area. In 2004, GP also conducted an extensive Phase II Environmental Site Assessment for the remaining portion of the property (the Pulp and Tissue Mill) prior to GP's sale of the site to the Port ([Aspect, 2011](#)).

The Port purchased the site from GP in January 2005, and is currently evaluating potential future land uses, including continued industrial use and potential re-zoning to accommodate mixed use redevelopment. In August 2009, the Port entered Agreed Order No. DE 6834 with Ecology to complete a RI/FS for the site in accordance with WAC 173-340-350 and the Statement of Work (SOW) and Schedule in the Agreed Order. In accordance with the SOW, the Port prepared a RI/FS Work Plan, and subsequently prepared two Addenda to the RI/FS Work Plan, each of which was reviewed and approved by Ecology. An amendment to Agreed Order No. DE 6834 allows the Port to undertake Interim Actions (IAs), prior to completion of the RI/FS and with public review and Ecology approval, in accordance with WAC 173-340-430 and WAC 173-340-600(16) ([Aspect, 2011](#)).

In 2013-2014, an IA was completed within the Chlor-Alkali Remedial Action Unit (RAU) of the GP West site ([Aspect, 2016](#)). That IA removed approximately 3,550 tons of soil and debris containing visible elemental mercury and also demolished the Mercury Cell Building ([Aspect, 2014](#)). Due to unexpected conditions encountered following removal of the Cell Building structure, the Port and the Department of Ecology agreed to suspend the IA and address remaining contamination as part of the final cleanup action for the RAU. Pending the final cleanup action, an estimated 600 cubic yards (900 tons) of soil containing visible elemental mercury within the footprint of the former Cell Building were secured beneath a heavy-gage, impervious and ultraviolet resistant polyethylene cover; the cover extended over the entire Cell

Building footprint. Figure 2 depicts the location of the soil to be removed in this IA. Due to a number of factors, implementation of the final cleanup action for the RAU will take longer than expected, and Ecology is now requiring the Port to remove that mercury-impacted soil prior to the final cleanup action.

Therefore, the goal for this IA is removal and off-site disposal of the estimated 600 cubic yards of mercury-contaminated soil at the former Cell Building. To address Subtitle C (hazardous waste) landfill disposal requirements, the soil will first be treated on-site to meet federal land disposal restriction (LDR) treatment standards

## 1.2. REPORT ORGANIZATION

The remainder of this work plan is organized as follows:

- [Section 2](#) summarizes the activities to be performed for the spill prevention, control and countermeasures plan
- [Section 3](#) describes the procedures that will be used for the temporary erosion and sediment control plan
- [Section 4](#) describes the contaminated material treatment plan
- [Section 5](#) summarizes the waste management plan
- [Section 6](#) lists the documents and guidance used to prepare this work plan

Figure and tables are presented after [Section 6](#). In addition, the following supplementation information is appended to this work plan:

- [Appendix A](#), Site-Specific HASP



## Section 2. Spill Prevention, Control, and Countermeasures Plan

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This Spill Prevention and Response Plan is intended to meet the requirements outlined in paragraph 17 of the Special Provisions included in the Bid Specifications. The purpose of this plan is to prevent spills from occurring during implementation of the culvert installation and to perform safe, efficient, and timely response if a spill or leak (both referred to as “spills” herein) occurs. This plan presents the minimum requirements for spill prevention and response to be fulfilled by ERRG during the construction project.

This plan is a working document to be used during the project, and a copy of the plan, including any necessary updates as work progresses, will be maintained at the site. The plan will be used frequently in the following ways:

- As a reference for oil storage and containment system information
- As a reference for contractors performing work at the site
- As a guide for site inspections
- As a resource during an emergency response

### 2.1. POTENTIAL SPILL SOURCES AND SPILL PREVENTION CONTROL AND COUNTERMEASURE FEATURES

Spill risks during construction are primarily related to fueling and maintenance of construction equipment. The primary petroleum types at risk of being spilled are gasoline, diesel, and hydraulic fluid. The Safety Data Sheets (SDSs) for each of these substances will be present on site in the HASP.

#### 2.1.1. Discharge Prevention

The petroleum products used during the project will be gasoline and diesel fuel used to power machinery. Hydraulic oil will be used in excavation and hauling equipment. ERRG will fuel all equipment using truck-mounted fuel tanks with a maximum capacity of 100 gallons. The total amount of oil and grease to be used on site is anticipated to be minimal.

#### 2.1.2. Spill Prevention Control and Countermeasure Features and Operating Procedures

Employees will be trained to implement spill prevention practices for work with and around oil sources. Personnel will use common sense and rely on spill prevention practices to minimize the potential for a release of oil. Fueling and oil storage procedures will be conducted on a containment boom with adsorbent fabric.

### 2.1.3. Inspections

ERRG is responsible for performing maintenance of the equipment and equipment fueling systems to keep it performing in an efficient and environmentally sound manner. The equipment will be observed to ensure that no leaks are occurring.

Equipment will be inspected daily and any equipment with hydraulic or fuel leaks will be taken out of service until it can be repaired. Spill response kits will be kept near all areas where equipment is being used, fueled, or stored and will be restocked as necessary. Inspections include observations of the exterior of the equipment for signs of deterioration or spills (leaks) and inventory of spill response kit materials.

### 2.1.4. Training

Personnel are knowledgeable in the operation and maintenance of oil pollution prevention equipment and pollution control laws and regulations.

### 2.1.5. Site Security

The site is located in a secure area at the Port of Bellingham. At the end of each workday, the treatment structure will be closed and all equipment and tools secured.

## 2.2. SPILL RESPONSE PROCEDURES

It is essential to prevent petroleum products, toxic chemicals, and all other non-stormwater discharges from spreading. Releases of petroleum products or toxic chemicals during the proposed excavation will warrant immediate response and cleanup. It is expected that most spills, if any, will be minor spills of fuel or hydraulic oil that will occur on a paved surface and will be immediately contained utilizing spill kits kept at the site.

If a spill occurs, ERRG personnel will implement the procedures listed below.

- Quickly contain the spill as close to the source as possible using absorbent pads and blankets provided in the spill kits.
- Prevent spilled material from entering a stormwater catch basin, if applicable, by placing oil absorbent boom and/or sand bags around the threatened inlet until the spill is cleaned up.
- Post a watch at the scene (upwind) to prevent entry to the site.
- Contact ERRG's Project Manager immediately after any spill greater than 1 gallon.
- Once the spill has been contained, quickly clean up the spilled liquid using absorbent pads or granules.
- Collect spent absorbent material in sealed plastic garbage bags.

ERRG's Project Manager will complete a Spill Notification Form and notify the relevant external parties, including the Port and the Port's Engineer, as well as any additional agencies or stakeholders.

**Ecology Regional Spill Reporting Numbers:  
Northwest Regional Office (425) 649-7000**

Spencer Slominski, ERRG's Project Manager, will complete a Spill Notification Form and notify the relevant external parties, including Ben Howard, Port Project Manager and Dave Heffner or Matthew von der Ahe from Aspect Consulting, as well as any additional agencies or stakeholders. Randy Randall, ERRG's Corporate Health and Safety Manager, will act as an alternative to notify third parties.

- Ben Howard – 360-715-7365  
Port of Bellingham Project Manager
- Dave Heffner – 206-949-1564 (cell)  
Aspect Consulting Associate Engineer
- Matthew von der Ahe – 206-718-9548 (cell)  
Aspect Consulting Project Engineer
- Spencer Slominski – 415-710-2846 (cell)  
ERRG Project Manager
- Randy Randall – 925-250-3966 (cell)  
ERRG Corporate Health and Safety Manager
- Allan Willis – 503-307-7015 (cell)  
ERRG Superintendent

### **2.3. SPILL RESPONSE KITS**

Spill kits will be kept near all areas where equipment is used, fueled, or stored. This spill kit will contain, at minimum:

- Oil-absorbent pads, berms, blankets, or granules
- Oil-resistant gloves
- Detergent
- ANSI Type III Class B first-aid kit

Spill kits can be used for initial control of spills from equipment reservoir failures or incidental spill/leaks associated with the storing/handling of containerized fuel and lubricants.

If a release occurs from any storage tank or vehicle, workers must isolate and contain the spill by placing down berms around the entire perimeter of the affected area. Berms must remain in place until fully cleaned up or a response contractor can be summoned. Oil-absorbent pads, blankets, or granules will be placed

over the spill to soak up the contaminants and additional absorption material must be added until the spill is completely soaked up. After clean up, all material will be disposed of properly including spill-contaminated soil. If the spill occurred on a hard surface detergent can be used to scrub the affected area.

#### **2.4. FUELING PROCEDURES**

ERRG will maintain a spill kit wherever fueling occurs and will continually monitor fueling operations. If a spill occurs, ERRG will follow the spill handling, cleanup, and reporting procedures.

#### **2.5. OPERATIONAL SPILL PROCEDURES**

If a spill occurs during operational procedures associated with this project (i.e., excavation activities), ERRG will stop working and implement BMPs to stop the spill source, contain the spill, and proceed with cleanup and reporting protocols outlined in this plan. ERRG will maintain spill kits on site, and the materials identified in this plan will be used to stop, contain, and clean up leaks or spills.

## Section 3. Temporary Erosion and Sediment Control Plan

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This TESC Plan was prepared following the guidance in the Temporary Erosion and Sediment Control Manual ([Washington State Department of Transportation, 2014](#)) for onsite activities that may potentially affect sediment or surface water drainage at the site. This plan describes the procedures and BMPs for controlling sediment or stormwater runoff into nearby drainages.

Cleanup activities are scheduled to be conducted primarily on sealed surfaces (concrete and asphalt). To reduce potential effects of site activities on sediment erosion and stormwater runoff, this plan (1) identifies and evaluates all pollution sources (including sediment) associated with cleanup activities that may adversely affect the quality of sediment or surface water in nearby drainages and (2) specifies site-specific BMPs that may be necessary to prevent pollutants from migrating off site. The following subsections discuss potential pollutant sources, BMPs to be used (as needed), and inspection and reporting protocols for prevention of pollution to sediment and stormwater.

BMPs will be implemented, if needed, to reduce the sediment load of stormwater runoff from the site. These BMPs include grading active work areas to prevent stormwater runoff from active work areas to undisturbed areas and installing stormwater control devices around the downgradient perimeter of the soil disturbance areas.

### 3.1. POTENTIAL POLLUTANT SOURCES

The following activities have the potential to dislodge sediment that may enter nearby areas:

- Excavation of material from the stockpile and transport to the treatment area
- Stockpiled material post treatment
- Final site grading

In addition, the following wastes generated by cleanup activities may become a source of pollution if in contact with stormwater runoff:

- Fuels, oils, fluids, lubricants, and grease used by various equipment
- Runoff from dust control
- Sanitary and septic waste generated by onsite workers

### **3.2. EROSION AND SEDIMENT CONTROL**

The greatest potential sources for offsite migration of contaminated materials are:

- Sediment sloughing during excavation and treatment activities
- Stormwater runoff during excavation and treatment activities
- Water runoff during dust control activities

BMPs to reduce the potential for stormwater runoff include sand bags and inlet filters.

The following subsections describe the BMPs to control erosion and sediment.

#### **3.2.1. BMPs for Water Erosion**

During dry weather, water erosion is not expected to pose a significant risk of sediment erosion. If a significant rain event occurs, sand bags may be used to divert water towards the inlets leading to the Port's existing stormwater system and prevent stormwater from leaving the site overland. Filter inserts will be installed in each of the catchbasins receiving stormwater flow from the project site

#### **3.2.2. BMPs for Wind Erosion**

Waste piles will be covered when not in use to prevent wind erosion. Water will be sprayed to suppress dust during excavation activities, movement of waste material, and soil grading activities. Over-watering, which could result in excessive runoff, will be avoided.

#### **3.2.3. BMPs for Tracking Sediment**

Heavy equipment and light-duty vehicles entering and exiting the site will be inspected for sediment prior to entering the site. Observed sediment will be swept or washed from the equipment, before it enters the site. During offhaul activities, trucks leaving the site will be inspected for soil adhered onto their tires to prevent tracking of sediment onto public roads. If sediment is present, the tires will be cleaned prior to the truck leaving the site.

#### **3.2.4. BMPs for Construction Vehicle and Equipment Spills**

Light-duty vehicles will be stored in a designated parking area away from the work areas. Light-duty vehicles and construction equipment will be maintained and regularly inspected for leaks daily. Any leaks from vehicles on site will be immediately reported to the driver or operator. Absorbent pads will be readily available if leaking oil or fluids are observed. Absorbent pads will be contained in the hazardous materials spill kit located near the site activities. All equipment fueling operations will be conducted within controlled areas and will be closely monitored to reduce the potential for a spill. Spills will be addressed in accordance with the spill prevention protocols outlined in Section 2.

### 3.3. INSPECTION, MAINTENANCE, REPAIR, AND REPORTING

Throughout the duration of cleanup activities, daily inspections will be conducted for installed BMPs to ensure that erosion controls are in place and effective. ERRG will conduct routine inspections and maintenance procedures to ensure that:

- Erosion and excessive displacement of sediment from active work areas has not occurred
- Surface water is not significantly ponding on the site
- Site access is secure

Detailed inspections will be conducted prior to and following anticipated storm events. Detailed inspections of the site will be conducted to ensure the integrity of soil covers and any installed BMPs. The field logs will summarize the BMPs implemented, the results of BMP inspections, and any response actions taken to manage the site.

## Section 4. Contaminated Material Treatment Plan

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This section describes the mobilization, waste treatment, and cleanup activities to be implemented during the project. All ERRG personnel will be briefed on the site-specific health and safety hazards prior to the start of work. All precautions, practices, and personal protective equipment (PPE) to mitigate hazards are specified in the HASP ([Appendix A](#)). Site activities will be sequenced to ensure maximum efficiency for ERRG personnel and equipment to meet the project schedule. As a result, some activities will be in increments or in parallel with other site activities. On site work will be conducted in the following order:

- Mobilization and Site Preparation (installation of best management practices [BMPs], if needed, surface preparation, tent set-up, and establishing a laydown area)
- Contaminated Materials Segregation and Treatment Activities (segregation of oversized debris and soil treatment methods)
- Site Restoration and Demobilization (backfill, regrading, and demobilization)

Waste packaging, transportation and disposal activities are described in [Section 5](#).

### 4.1. MOBILIZATION AND SITE PREPARATION

ERRG will mobilize all necessary equipment and supplies to the site to begin site cleanup activities. All materials and equipment will be available for inspection by Port personnel or the Port's Engineer prior to the start of site work. The following equipment will be mobilized to the site:

- Heavy equipment (e.g., John Deere 85 rubber track excavator, two caterpillar 299 track loaders, caterpillar D5 dozer, or equivalents)
- One 2,000-gallon water truck, or equivalent
- Two Enterra BMX-600 cement mixers
- Treatment enclosure and air handler with pre-filter and sulfur-impregnated carbon filter
- Office / tool storage trailer
- Portable generator (~45kVA)
- Pressure washer
- Hand tools and hand-operated power tools
- PPE
- Safety equipment (e.g., eyewash, first-aid kit, etc.)



- Portable toilets and other sanitary equipment, including a hand wash station
- Digital cameras and field logbooks

ERRG will mobilize additional equipment or supplies to the site, as needed.

The following subsections describe the principal tasks that will be performed during site preparation, including:

- Site work zones
- Installing construction BMPs
- Decommissioning of post indicator valves
- Well protection
- Treatment enclosure setup
- Waste stockpile area setup

#### **4.1.1. Site Work Zones**

Public access to the site is controlled by an existing fence. Only authorized personnel will be allowed in the controlled area of the site. All workers and visitors on the site will be required to read and acknowledge the HASP ([Appendix A](#)) before accessing the work area.

Access to the site is from the existing Mill Site Gate entrance on the southern side of the site. All equipment, personnel and waste transportation vehicles will access the site from this location. An equipment laydown, office, tool storage, and sanitary facilities area will be established at the south end of the site such that it is located outside of equipment and truck traffic routes ([Figure 2](#)).

#### **4.1.2. Construction BMP Installations**

During mobilization, ERRG will assess the potential for stormwater to carry sediments off site through surface flow. BMPs such as sand bags will be installed to keep all stormwater and runoff onsite and convey captured water to the inlets which ultimately discharge to the Port's existing stormwater system.

#### **4.1.3. Decommissioning Post Indicator Valves**

As part of site setup, ERRG personnel will decommission the two steel post indicator valves located southwest of the Former Cell Building by cutting the steel posts off at grade level, and filling the subsurface void with concrete. The removed materials from the post indicator valves will be placed in a dumpster for eventual disposed offsite as non-hazardous waste.

#### 4.1.4. Well Protection

Numerous flush mounted wells are present onsite in the construction area. Prior to the start of heavy equipment operations, ERRG will install high visibility construction fencing around any well box or group of well boxes that need protection from site activities to avoid damage during cleanup operations.

#### 4.1.5. Treatment Enclosure Setup

ERRG plans to set up the treatment enclosure to the east of the existing stockpile area and area to be paved to minimize travel distance with untreated and treated soil (Figure 2). Prior to setup, the asphalt will be inspected and all cracks will be sealed with caulking. Once the treatment enclosure is erected, the air handler system will be installed. After the air handler is installed, system testing will be conducted to ensure airflow meets or exceeds the flow rate to achieve three air changes per hour inside the tent.

#### 4.1.6. Waste Stockpile Area

The waste stockpile area will be setup on the former building slab and on the asphalt surrounding the treatment enclosure (Figure 2). Prior to setup, the concrete and asphalt will be inspected and all cracks in the surface will be sealed with asphalt caulking or a heat activated blacktop crack filler, as appropriate. Sand bag berms will be created around the stockpile area as needed to convey water from the stockpile area to the ports existing storm water system. Based on an assumed production rate of 50 tons per day, a 1-day cure time, a 3-day turnaround time for samples, and 2 additional days for shipping coordination, the waste stockpile area will be sized to store a minimum of 350 tons. Additionally, waste storage bins for oversized debris and non-hazardous waste will be mobilized and placed in the waste stockpile area.

### 4.2. TREATMENT OPERATIONS

This section describes the principal tasks and the sequencing necessary to perform the segregation and treatment of the contaminated material.

#### 4.2.1. Excavation, Sorting and Staging

Prior to soil treatment, ERRG will need to remove portions of the existing polyethylene cover and visqueen to access and excavate the contaminated soil and debris. These cover materials will be replaced and weighted down with sandbags or other suitable materials when excavation operations for each treatment lot are completed. Large oversized debris will be segregated as the material is sorted and loaded into oversize debris bin(s) in the waste stockpile area. Additional segregation of smaller oversize debris not segregated during excavation of each treatment lot will occur inside the treatment tent as described in Section 4.2.2. Soil will not be stockpiled between physical screening and placement in the mixer.

### 4.2.2. Treatment Test Run

Prior to initiating full-scale treatment, ERRG will conduct a test run to verify the planned treatment method meets project quality control requirements. For the test run, ERRG will sequentially process two batches, with a treated soil weight (i.e., total weight of soil and additives) of 15,000 to 16,000 pounds each. ERRG's treatment plan includes screening the contaminated soil through bar screens attached to a paddle mixer loader bucket. The loader will be weighed prior to loading soil and again after the bucket is loaded, but before any additional materials are added. ERRG will mix soil in batches consisting of 0.5 CY (approximately 1440 lbs) tons of contaminated soil. After the mixer has been loaded with soil, the amendments will be added to the mixer as follows:

- Approximately 2 weight percent (wt%) elemental sulfur<sup>1</sup> (34 lbs),
- 25 wt% portland cement<sup>2</sup> (360 lbs), and
- Approximately 5 to 10 wt% water (10 – 20 gallons).

<sup>1</sup> Elemental sulfur will be delivered in powdered form and may be mixed in with water prior to mixing

<sup>2</sup> Portland cement will be delivered in 90 lb bags

These proportions are consistent with results from the Phase 3 Pilot Test report included as an appendix to the Bid Solicitation, although on the low side for water content, which will be adjusted during the mixing to achieve the desired consistency. The mixing bucket will then be used to mix the soil and amendments. Visual observations will begin after 5 minutes of mixing and made every 2 minutes thereafter until all amendments appear to be thoroughly incorporated. The mixing bucket will then be emptied into a supersack and after it has thoroughly hardened moved to the waste stockpile area, labeled with a batch identification number and covered. Each of the two 15,000 to 16,000 pound treatment test runs is expected to require seven or eight supersacks of treated soil. This process will then be repeated with the second treatment test batch. ERRG anticipates that the treated soils will be ready for sampling by the Port's Engineer the day following treatment, and that several samples will be collected to determine the necessary cure time. ERRG will suspend treatment operations until directed by the Port's Engineer to initiate full-scale treatment (pending receipt of laboratory confirmation data indicating the performance criteria have been met).

### 4.2.3. Full Scale Treatment

Once the Port's Engineer gives approval for full scale operations, ERRG will use the test data for mixing time and water additions to proceed with full scale operations. Based on the wet density of the site soil given by Aspect during the draft review of the RAMP (1.67 tons/cubic yard) and the proposed additions shown in [Section 4.2.2](#), approximately 1,440 lbs of soil will be screened for oversize debris for each batch processed in the mixing bucket. Based on the proportions shown in [Section 4.2.1](#), each batch will be mixed with 360 pounds of cement, 37.5 pounds of sulfur and 10 -20 gallons of water. This will result in approximately 1 ton of treated soil per super sack batch, or thirty-two (32) supersack batches per "lot" of treated soil. The thirty-two treated super sacks will be stockpiled in one area to create a lot (less than 32

tons) for sampling by the Port's Engineer. These quantities are approximate and subject to change based on the results of the treatment test runs and approval of the final treatment process by the Port's Engineer.

### **4.3. SITE RESTORATION AND DEMOBILIZATION**

This section describes the site restoration activities and demobilization of equipment and personnel from the site.

#### **4.3.1. Site Restoration**

For site restoration, the ecology blocks anchoring the perimeter of the polyethylene cover and underlying visqueen will be moved to a staging location on the project site designated by the Port's Engineer. The polyethylene cover and visqueen then be removed, size reduced and added to the oversized debris bin for macro encapsulation. Berm materials will be removed and disposed of as non-hazardous waste and cover materials will be sampled to determine a waste classification. ERRG will then remove and stage, at a location agreeable with the Port's Engineer, the crushed bricks and other materials currently placed on top of the steel plates. The steel plates will be removed and decontaminated as described in [Section 4.3.2](#). All timbers and deleterious materials (wood, metal and other objects) that may interfere with the asphalt resurfacing project will be removed from the subgrade prior to backfilling with gravel and bucket compacting to match the existing subgrade.

After the initial backfilling to subgrade, ERRG will install a layer of high-visibility, orange, non-woven geotextile (Mirafi 160N or similar) as a visual demarcation layer. This will be covered with a layer of gravel with variable thickness tapering from zero at the north and south edges of the surfacing area to approximately 9 inches at the center crown to achieve a 1 percent slope in both directions. Grade control will be performed by a grade checker utilizing either a rotating laser or a trimble GPS grade control system. This will then be covered with 3 inches of crushed surfacing base course followed by 3 inches of hot mix asphalt (Class ½", PG 64-22), which will be tapered at the edges to make a smooth transition to the existing asphalt.

#### **4.3.2. Decontamination**

ERRG will decontaminate the steel plates with a pressure washer or other suitable technique to achieve the release requirement of less than 1 milligram of mercury per 100 square centimeters, as demonstrated by samples taken by the Port's Engineer. ERRG equipment will also be cleaned first by dry decontamination of bulk material, followed by pressure washing, to meet the release requirement. Finally, the hard surfaces under the treatment enclosure area and the waste stockpile area will be pressure washed to be clean of any dirt, debris or other visual signs of contamination. As noted in the TESC Plan, ERRG will direct all water from decontamination operations towards the conveyance to the existing treatment system.

## Section 5. Waste Management Plan

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This section describes how waste will be segregated, transported and disposed.

*Note: The Port's Engineer will be responsible for waste characterization sampling, development of waste profiles, and obtaining landfill approval for each waste stream.*

### 5.1. ANTICIPATED WASTE STREAMS

Based on the project documentation provided in the Bid Solicitation, ERRG anticipates generating four (4) primary waste types:

- Non-hazardous (i.e., sanitary) waste for transportation and disposal at a permitted Subtitle D landfill
- Hazardous waste designated as Washington State Dangerous Waste (WT02); for treatment Lots with TCLP mercury below 0.2 mg/L for transportation and disposal at a permitted Subtitle C landfill
- Hazardous waste designated as Federal hazardous waste (D009; for Treatment Lots with TCLP mercury between 0.2 and 0.25 mg/L) for transportation and disposal at a permitted Subtitle C landfill
- Oversized debris designated as Federal hazardous waste debris (D009) for transportation, macro encapsulation, and subsequent disposal at a permitted Subtitle C landfill

### 5.2. ONSITE WASTE STORAGE

As noted in [Section 4.1.6](#), a waste stockpile area will be setup upon mobilization to the site. A rolloff or intermodal shipping container will be used for collection and storage of sanitary waste, and will be closed at all times when not in use. All waste loaded into the sanitary waste bin will be reviewed and approved by the Port's Engineer.

For the oversized hazardous waste debris, ERRG will use 48 cubic yard DOT approved shipping containers provided by Waste Management. These shipping containers will be closed at all times when not in use.

The waste stockpiles will be staged on the sealed asphalt surface in the waste stockpile area, labeled with batch numbers, and covered. Runon/runoff from these waste piles will be controlled as described in [Section 3](#).

### 5.3. TRANSPORTATION

Waste Management, Inc. will provide waste transportation services from the site to the designated disposal facilities. Sanitary waste will be transported under a Bill of Lading, while WT02 and D009 hazardous wastes will be shipped using a Uniform Hazardous Waste Manifest. All shipping paperwork will be signed by the Port or the Port's Engineer acting as the Port's agent.

Trucks will enter and exit the site using the Mill Site Gate from Cornwall Avenue as shown on Figure 2. The sanitary waste and oversize debris bins will be transported by rolloff truck and flatbed truck, respectively. The treated soil will be transported by dump truck with a secondary dump trailer (i.e., truck and pup). Absorbent will be added to the trucks and pups at the tailgate, as needed, to ensure no liquid is discharged from the tailgate during transport. The truck and pup beds will be lined with plastic before ERRG loads each truck and pup with a single batch of treated soil with the front end loader. After loading, the edges of the plastic liner will be folded inward to seal the contents (i.e., burrito wrap). The exterior of each truck and pup will be inspected and cleaned of any waste material / debris that could be tracked off the project site before they are allowed to exit the site. Additionally, all loads will also be covered with a tarp before leaving the project site.

### 5.4. DESIGNATED TREATMENT, STORAGE AND DISPOSAL FACILITIES (TSDf)

ERRG will use the following TSDf's operated by Waste Management, Inc. for final disposition of the wastes generated during this project:

- Sanitary Waste - Columbia Ridge Landfill located at 18177 Cedar Springs Lane in Arlington, Oregon
- WT02 and D009 Hazardous Wastes - Chemical Waste Management hazardous waste TSDf located at 17629 Cedar Springs Lane in Arlington, Oregon

## Section 6. References

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Aspect Consulting, LLC (Aspect), 2011. “Interim Action Work Plan, Georgia-Pacific West Site, Bellingham, Washington.” June 23.

Aspect, 2016. “Interim Action Work Plan, Removal of Mercury-Contaminated Soil at Cell Building.” December 26.

Washington Administrative Code (WAC), 1997. “Title 296, Chapter 296-62, Section 296-62-07705, Permissible Exposure Limits.” March 19.

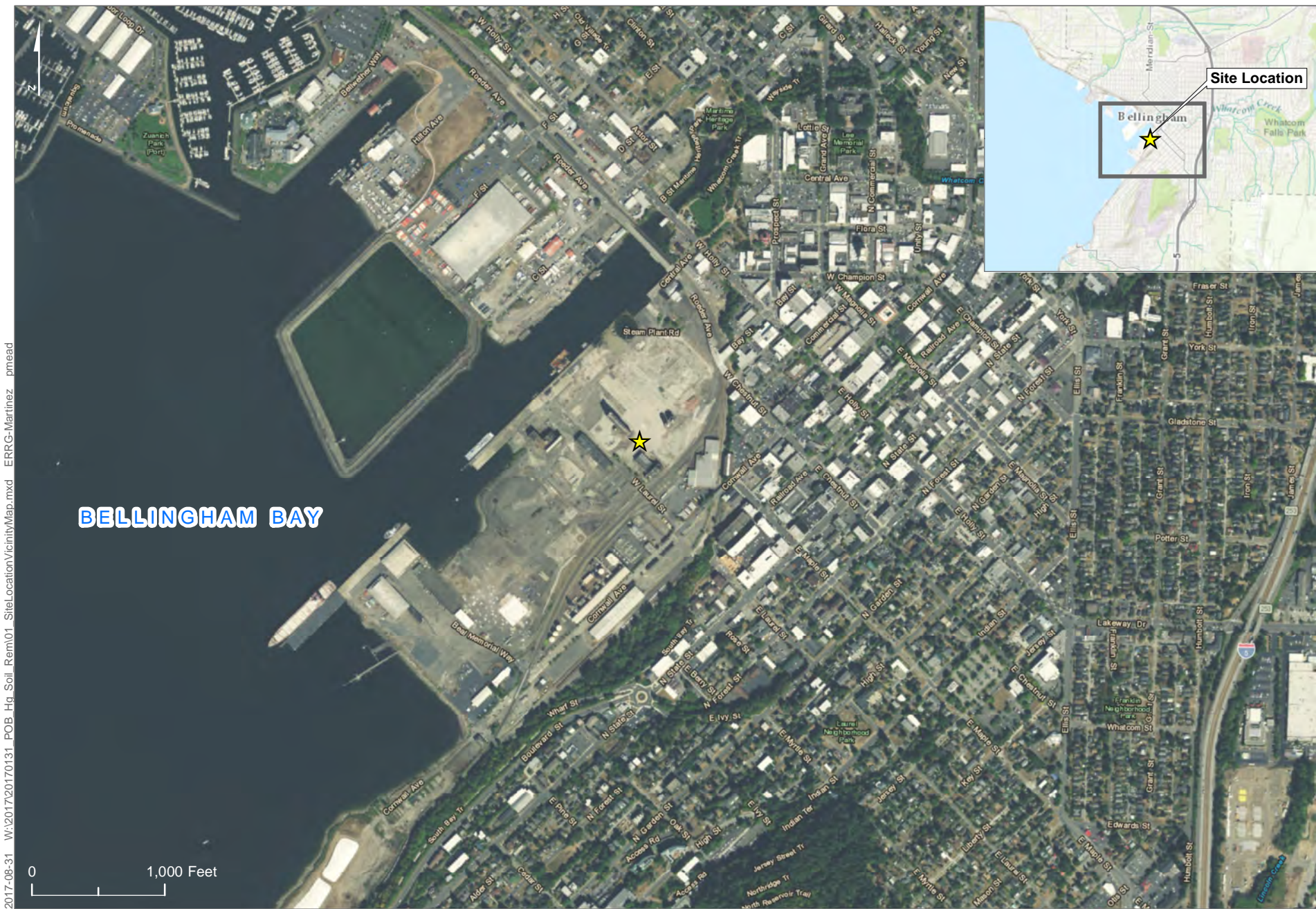
Washington State Department of Transportation, 2014. “Temporary Erosion and Sediment Control Manual M 3109.01.” April.

# Figures

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## Figure 1. Site Location and Vicinity Map



2017-08-31 W:\2017\20170131\_POB\_Hq\_Soil\_Rem\01\_SiteLocationVicinityMap.mxd ERRG-Martinez pmead

**Figure 1. Site Location and Vicinity Map**  
 Port of Bellingham Mercury Soil Treatment and Disposal - Bellingham, Washington

## Figure 2. Site Features



**Figure 2. Site Features Map**  
 Port of Bellingham Mercury Soil Treatment and Disposal - Bellingham, Washington

## **APPENDIX C**

### **Laboratory Reports, Treated Soil**



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

October 25, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-29881 - GP-070188-27 (Job 1 of 2)

Dear Matthew Von Der Ahe,

Your project: GP-070188-27 (Job 1 of 2), was received on Monday October 23, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report  
QC Reports  
Chain of Custody



**Burlington, WA Corporate Laboratory (a)**  
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400

**Bellingham, WA Microbiology (b)**  
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

**Portland, OR Microbiology/Chemistry (c)**  
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

**Corvallis, OR Microbiology/Chemistry (d)**  
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946

**Bend, OR Microbiology (e)**  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

# Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110


Reference Number: **17-29881**  
 Project: GP-070188-27 (Job 1 of 2)

Report Date: 10/25/17

Date Received: 10/23/17

Approved by: anp

Authorized by:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 1 - 4 DAY							Sample Date: 10/19/17 5:00 pm					
Lab Number: 64844			Sample Comment:				Collected By: MV					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7439-97-6	MERCURY	0.0815	0.0200		mg/L	100.0	7470A/1311	a	10/24/17	RHF	7470A_171024	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-29881**

Report Date: 10/25/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171024	0 MERCURY	0.00153	0.00167	mg/L	7470A	92	70-130			LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-29881**

Report Date: 10/25/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171024	1 MERCURY	0.000194	0.000200	mg/L	7470A	97	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-29881**

Report Date: 10/25/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171024	0 MERCURY	ND		mg/L	7470A		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-29881**

Report Date: 10/25/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171024	0 MERCURY	0.00223	0.00228	mg/L	7470A	98	90-110			QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



Reference Number:

Report Date: 10/25/2017

Page 1 of 1

SAMPLE DEPENDENT  
QUALITY CONTROL REPORT  
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

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%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Report To: Matthew Vander Ake  
 Address: Aspect Consulting State: Zed  
 City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Report Email: m.vanderake@aspectconsulting.com  
 Project Name: GP-070188-27

Billing Email: accounting@aspectconsulting.com  
 Bill To: Aspect Consulting  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ P.O.#: \_\_\_\_\_  
 Card: VISA M/C Express:  
 Card#: \_\_\_\_\_

REF# 17-29881  
 CHECK REGULATORY PROGRAM  
 Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other  
 Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**  
 1. Use one line per sample location.  
 2. Be specific in test requests.  
 3. List each metal individually.  
 4. Check off analysis to be performed for each sample location.  
 5. Enter number of containers.

Turn Around Time Required  
 Standard  
 Half-Time (50% Surcharge)  
 Quickest (100% Surcharge) Phone Call Req.  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	Analysis Requested										Number Of Containers	Special Instruction/ Conditions on Receipt	
						TCLP-1311	Hg	7470A										
1	LOT1-4DAY		C	10/19	17:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 start extraction 10/23
2	LOT1-5DAY		C	10/19	18:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 start extraction 10/24
3	LOT 2-5DAY		C	10/20	12:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 start extraction 10/24
4	LOT 3-5DAY		C	10/20	16:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 start extraction 10/24
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Sampled By: MV Phone: 266 718 9548 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 \* Sample Matrix  
 W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other \_\_\_\_\_

Relinquished By	Date	Time	Received By	Date	Time
			<u>BP</u>	<u>10/23/17</u>	<u>15:52</u>

Custody Seals Intact  Yes  No  N/A  
 Sample Temp 22.5 C Satisfactory  Yes  No  N/A  
 Evidence Of Cooling  Yes  No  N/A  
 Samples Received Intact  Yes  No  N/A  
 Chain Of Custody & Labels Agree  Yes  No  N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

October 27, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-29882 - GP-070188-27 (Job 2 of 2)

Dear Matthew Von Der Ahe,

Your project: GP-070188-27 (Job 2 of 2), was received on Monday October 23, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Bryce Jensen  
Chief Inorganic Chemist

Enclosures: Data Report  
QC Reports  
Chain of Custody



**Burlington, WA Corporate Laboratory (a)**  
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400  
**Bellingham, WA Microbiology (b)**  
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

**Portland, OR Microbiology/Chemistry (c)**  
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802  
**Corvallis, OR Microbiology/Chemistry (d)**  
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946  
**Bend, OR Microbiology (e)**  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

# Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-29882**  
 Project: GP-070188-27 (Job 2 of 2)

Report Date: 10/27/17

Date Received: 10/23/17

Approved by: anp

Authorized by:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: Lot 1 - 5 DAY										Sample Date: 10/19/17 6:00 pm		
Lab Number: 64845		Sample Comment:								Collected By: MV		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

7439-97-6	MERCURY	0.00306	0.0020		mg/L	10.0	7470A/1311	a	10/26/17	RHF	7470A_171026	
-----------	---------	---------	--------	--	------	------	------------	---	----------	-----	--------------	--

Sample Description: Lot 2 - 5 DAY										Sample Date: 10/20/17 12:00 pm		
Lab Number: 64846		Sample Comment:								Collected By: MV		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

7439-97-6	MERCURY	0.00270	0.0020		mg/L	10.0	7470A/1311	a	10/26/17	RHF	7470A_171026	
-----------	---------	---------	--------	--	------	------	------------	---	----------	-----	--------------	--

Sample Description: Lot 3 - 5 DAY										Sample Date: 10/20/17 4:00 pm		
Lab Number: 64847		Sample Comment:								Collected By: MV		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

7439-97-6	MERCURY	0.00243	0.0002		mg/L	1.0	7470A/1311	a	10/26/17	RHF	7470A_171026	
-----------	---------	---------	--------	--	------	-----	------------	---	----------	-----	--------------	--

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-29882**

Report Date: 10/27/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171026	0 MERCURY	0.00161	0.00167	mg/L	7470A	96	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-29882**

Report Date: 10/27/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171026	1 MERCURY	0.000184	0.000200	mg/L	7470A	92	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-29882**

Report Date: 10/27/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171026	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-29882**

Report Date: 10/27/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171026	0 MERCURY	0.00224	0.00228	mg/L	7470A	98	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
QUALITY CONTROL REPORT**  
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

---

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
7470A_171026	62381	MERCURY	ND	ND		mg/L	NA	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171026</b>															
	62381	MERCURY	ND	0.00203	0.00230	0.00200	mg/L	102	115	70-130	12.5	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

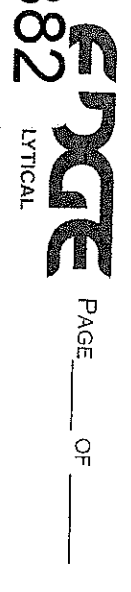
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



Report To: Matthew Vonder Ahe  
 Address: Aspect Consulting  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name: GP-070188-27

Bill To: Aspect Consulting  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ P.O.#: \_\_\_\_\_  
 Card: VISA M/C Expires: \_\_\_\_\_  
 Card#: \_\_\_\_\_

REF# \_\_\_\_\_  
 64845 - 64847

17-29882

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**

1. Use one line per sample location.
2. Be specific in test requests.
3. List each metal individually.
4. Check off analysis to be performed for each sample location.
5. Enter number of containers.

Turn Around Time Required

Standard  
 Half-Time (50% Surcharge)  
 Quickest (100% Surcharge) Phone Call Req.  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	Analysis Requested										Number Of Containers	Special Instruction/ Conditions on Receipt
1	<del>LOT 1 - 5DAY</del>																
2	LOT 1 - 5DAY	C		10/19	18:00	TCLP-13 11 Hg 7470A										3 Day Rush	Start extraction 10/24
3	LOT 2 - 5DAY	C		10/19	12:00												Start extraction 10/24
4	LOT 3 - 5DAY	C		10/20	16:00												Start extraction 10/24
5																	
6																	
7																	
8																	
9																	
10																	

Sampled By: MV  
 Phone: 267189548  
 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

\* Sample Matrix

W - Water      SW - Surface Water      WW - Wastewater      OL - Oil  
 DW - Drinking Water      GW - Ground Water      S - Soil      Other \_\_\_\_\_

Relinquished By	Date	Time	Received By	Date	Time
			<u>BP</u>	<u>10/31</u>	<u>15:52</u>

Custody Seals Intact  Yes  No  N/A

Sample Temp 22.5 C Satisfactory  Yes  No  N/A

Evidence Of Cooling  Yes  No  N/A

Samples Received Intact  Yes  No  N/A

Chain Of Custody & Labels Agree  Yes  No  N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 9, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-31668 - Lot 4 &5

Dear Matthew Von Der Ahe,

Your project: Lot 4 &5, was received on Monday November 06, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report  
QC Reports  
Chain of Custody



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-31668**  
 Project: Lot 4 &5  
 Report Date: 11/9/17  
 Date Received: 11/6/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 4 -								Sample Date: 10/31/17				
Lab Number: 68528		Matrix: Soil						Collected By:				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
RCRA Metals												
7439-97-6	MERCURY	0.822	0.200	0.5000	0.014	mg/L	Fail	7470A/1311	11/8/17	RHF	a	7470A_171106

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.






Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-31668**  
 Project: Lot 4 &5  
 Report Date: 11/9/17  
 Date Received: 11/6/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 5		Matrix: Soil						Sample Date: 11/1/17				
Lab Number: 68529								Collected By:				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
RCRA Metals												
7439-97-6	MERCURY	0.00246	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/8/17	RHF	a	7470A_171106

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-31668**

Report Date: 11/09/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171108	0 MERCURY	0.00157	0.00167	mg/L	7470A	94	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-31668**

Report Date: 11/09/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171108	1 MERCURY	0.000193	0.000200	mg/L	7470A	97	50-150	LLFB	MRL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-31668**

Report Date: 11/09/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171108	0 MERCURY	ND		mg/L	7470A		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-31668**

Report Date: 11/09/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171108	0 MERCURY	0.00224	0.00228	mg/L	7470A	98	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171108</b>											
	68292	MERCURY	ND	ND		mg/L	NA	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171108</b>															
	68292	MERCURY	ND	0.00180	0.00179	0.00167	mg/L	108	107	70-130	0.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 15, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-32645 - Lot 4 Resample

Dear Matthew Von Der Ahe,

Your project: Lot 4 Resample, was received on Monday November 06, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Bryce Jensen  
Chief Inorganic Chemist

Enclosures: Data Report  
QC Reports  
Chain of Custody





Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 15, 2017

Page 1 of 1

# Case Narrative

Reference: **17-32645**

Lab Sample ID	Sample Information	
<b>70513</b>	<b>LOT 4</b>	
Analytical Method	Notes	Created by
<b>7470A</b>	Aliquots taken from original extract of Lot 4 to confirm results, not a new tumbled aliquot of sample.	BJ



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32645**  
 Project: Lot 4 Resample  
 Report Date: 11/15/17  
 Date Received: 11/6/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 4		Matrix: Other						Sample Date: 10/31/17				
Lab Number: 70513								Collected By:				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	MERCURY	0.824	0.200	0.5000		mg/L	Fail	7470A/1311	11/14/17	RHF	a	7470A_171114
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Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32645**  
 Project: Lot 4 Resample  
 Report Date: 11/15/17  
 Date Received: 11/6/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 4 DUP		Matrix: Other		Sample Date: 10/31/17								
Lab Number: 70514				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.814	0.200	0.5000		mg/L	Fail	7470A/1311	11/14/17	RHF	a	7470A_171114
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Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-32645**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171114	0 MERCURY	0.00161	0.00167	mg/L	7470A	96	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-32645**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171114	1 MERCURY	0.000180	0.000200	mg/L	7470A	90	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-32645**

Report Date: 11/15/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171114	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-32645**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	%	Recovery Limits*	QC	QC	Comment
			Value	Units				Qualifier Type	QC	
7470A_171114	0 MERCURY	0.00232	0.00228	mg/L	7470A	102	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171114</b>											
	70179	MERCURY	ND	ND		mg/L	NA	0-45		DUP	
	70251	MERCURY	ND	ND		mg/L	NA	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt



Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171114</b>															
	70179	MERCURY	ND	0.00144	0.00143	0.00167	mg/L	86	86	70-130	0.7	0-20		LFM	
	70251	MERCURY	ND	0.00191	0.00198	0.00167	mg/L	114	119	70-130	3.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

**CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)**

Report To: ASPECT CONSULTING

Billing Email: accounts payable@aspectconsulting.com

FOR LAB USE

Address:

Bill To: Accounts Payable Aspect Consulting  
Address 350 Madison Ave N

REF# 17-31668  
17-32645

City: State: Zip:

City: Bainbridge Island State: WA Zip: 98110

70513 - 70514

Phone: 206-718-9548 Fax:

Phone: 2067807722 P.O.#: 070188-27

Clean Water Act  
 RCRA / CERCLA  
 Other

Report Email: mvonderath@aspectconsulting.com

Card: VISA M/C Expires:

9150 SW Pioneer Ct, Suite W Wilsonville, OR 97070  
Corvallis Lab (541-753-4946)  
540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
Bend Lab (541-639-8425)  
20332 Empire Ave. Suite F-4 Bend, OR 97703

Project Name:

Card#:

**INSTRUCTIONS - PLEASE READ**

1. Use on the pre-sample location
2. Be sure to fill in the request
3. Check off analysis to be performed
4. Check off sample location
5. Enter number of containers

**Turn Around Time Required**

- Standard  
 Half-Time (50% Surcharge)  
 Quickst (100% Surcharge) Phone Call Req.  
 Emergency (Phone Call Required)

**Analysis Requested**

TCLP (1311)  
Hg (7470A) \$3500

Sample ID	Location	Grab or Composite	Date	Time	Analysis Requested										Number Of Containers	Special Instruction/ Conditions on Receipt			
1	1011		11/17	13:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
2	1012		11/17	13:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
3	1013				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
4	1014				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
5	1015				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
6	1016				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
7	1017				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
8	1018				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
9	1019				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
10	1020				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
Sampled By: [Signature]																			
Phone: [Blank] Fax: [Blank] Email: [Blank]																			

Sample Receipt requested (Must include FAX or Email)

Sample Matrix

W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other \_\_\_\_\_

11/16/17	0948	ZWR	11/17	748
11/17	1605	BP	11/17	1605

Edge

Sample Temp 6.1 C Satisfactory

Samples Received Intact

Chain of Custody

Yes No N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 10, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-32257 - Lot 6, 7 TCLP/Hg

Dear Matthew Von Der Ahe,

Your project: Lot 6, 7 TCLP/Hg, was received on Tuesday November 07, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Bryce Jensen  
Chief Inorganic Chemist

Enclosures: Data Report  
QC Reports  
Chain of Custody




Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32257**  
 Project: Lot 6, 7 TCLP/Hg  
 Report Date: 11/10/17  
 Date Received: 11/7/17  
 Approved By: bj  
 Authorized By:

  
 Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: Lot 6		Matrix: Other						Sample Date: 11/2/17				
Lab Number: 69844								Collected By:				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
RCRA Metals												
7439-97-6	MERCURY	0.00169	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/10/17	RHF	a	7470A_171110

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.




Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32257**  
 Project: Lot 6, 7 TCLP/Hg  
 Report Date: 11/10/17  
 Date Received: 11/7/17  
 Approved By: bj  
 Authorized By:

  
 Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: Lot 7		Matrix: Other		Sample Date: 11/2/17								
Lab Number: 69845				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00107	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/10/17	RHF	a	7470A_171110

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-32257**

Report Date: 11/10/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171110	0 MERCURY	0.00160	0.00167	mg/L	7470A	96	70-130	LFB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-32257**

Report Date: 11/10/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171110	1 MERCURY	0.000187	0.000200	mg/L	7470A	94	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-32257**

Report Date: 11/10/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171110	0 MERCURY	ND		mg/L	7470A		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-32257**

Report Date: 11/10/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171110	0 MERCURY	0.00220	0.00228	mg/L	7470A	96	90-110			QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171110</b>											
	69382	MERCURY	ND	ND		mg/L	NA	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171110</b>															
	69382	MERCURY	ND	0.00204	0.00207	0.00200	mg/L	102	104	70-130	1.5	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

**17-322257**  
69844 - 69845



Report To: ASPECT CONSULTING  
 Address:  
 City: State: Zip:  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax:  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name:

Billing Email: accountspayable@aspectconsulting.com  
 Bill To: Accounts Payable, Aspect Consulting  
 Address: 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA MMC Expires:  
 Card#:

Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other  
**Analysis Requested**  
 Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4, Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W, Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS: "PLEASE READ"**  
 1. Use one line per sample location.  
 2. Be specific in test requests.  
 3. List each metal individually.  
 4. Check off analysis to be performed for each sample location.  
 5. Enter number of containers.

Turn Around Time Required  
 Standard  
 Half-Time (50% Surcharge)  
 Quickest (100% Surcharge) Phone Call Req.  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	TCLP (1311)/ Hg (7470A)	Number Of Containers				Special Instruction/ Conditions on Receipt	
1	LOT 6	S	C	11/12	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
2	LOT 7	S	C	1-11/2	15:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampled By:						Phone:	Fax:	Email:	2 Total Containers			

Sample Receipt requested (Must include FAX or Email)

\* Sample Matrix  
 W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other: \_\_\_\_\_

Retinquished By: *MM* Date: 11/7/17 Time: 8:45 Received By: *KR* Date: 11/7/17 Time: 8:45

Custody Seals Intact  
 Sample Temp Satisfactory  
 Evidence Of Cooling  
 Samples Received Intact  
 Chain Of Custody & Labels Agree  
 Yes No N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 15, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110

RE: 17-32451 - TCLP/Hg

Dear Matthew Von Der Ahe,

Your project: TCLP/Hg, was received on Thursday November 09, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Bryce Jensen  
Chief Inorganic Chemist

Enclosures: Data Report  
QC Reports  
Chain of Custody



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32451**  
 Project: TCLP/Hg  
 Report Date: 11/15/17  
 Date Received: 11/9/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: Lot 8		Matrix: Soil		Sample Date: 11/3/17								
Lab Number: 70157				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
RCRA Metals												
7439-97-6	MERCURY	0.00311	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.




Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32451**  
 Project: TCLP/Hg  
 Report Date: 11/15/17  
 Date Received: 11/9/17  
 Approved By: bj  
 Authorized By:

  
 Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: Lot 9		Matrix: Soil		Sample Date: 11/3/17								
Lab Number: 70158				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
RCRA Metals												
7439-97-6	MERCURY	0.00350	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-32451**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171114	0 MERCURY	0.00161	0.00167	mg/L	7470A	96	70-130		LFB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-32451**

Report Date: 11/15/17

Batch	Analyte	True		Method	% Recovery	Limits*	QC	QC	Comment
		Result	Value				Units	Qualifier	
7470A_171114	1 MERCURY	0.000180	0.000200	mg/L	7470A	90	50-150	LLFB	MRL

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-32451**

Report Date: 11/15/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171114	0 MERCURY	ND		mg/L	7470A		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-32451**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171114	0 MERCURY	0.00232	0.00228	mg/L	7470A	102	90-110			QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171114</b>											
	70179	MERCURY	ND	ND		mg/L	NA	0-45		DUP	
	70251	MERCURY	ND	ND		mg/L	NA	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171114</b>															
	70179	MERCURY	ND	0.00144	0.00143	0.00167	mg/L	86	86	70-130	0.7	0-20		LFM	
	70251	MERCURY	ND	0.00191	0.00198	0.00167	mg/L	114	119	70-130	3.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



**17-322451**  
70157 - 70158

Report To: ASPECT CONSULTING  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax: \_\_\_\_\_  
 Report Email: mwonderh@aspectconsulting.com  
 Project Name: \_\_\_\_\_

Billing Email: accountspayable@aspectconsulting.com  
 Bill To: Accounts Payable, Aspect Consulting  
 Address 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA M/C Expires: \_\_\_\_\_  
 Card#: \_\_\_\_\_

**CHECK REGULATORY PROGRAM**

Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other

ANALYTICAL  
 Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W/Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**

1. Use one line per sample location.
2. Be specific in test requests.
3. List each metal individually.
4. Check off analysis to be performed for each sample location.
5. Enter number of containers.

**Turn Around Time Required**

Standard  
 Half-Time (50% Surcharge)  
 Quickest (100% Surcharge) Phone Call Req.  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	Analysis Requested										Number Of Containers	Special Instruction/ Conditions on Receipt												
						TCLP (1311)/ Hg (7470A)																							
1	LOT 8	S	C	11/3	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1									
2	LOT 9	S	C	11/3	15:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1									
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
Sampled By: _____						Phone: _____						Fax: _____						Email: _____						Total Containers					

Sample Receipt requested (Must include FAX or Email)

**Sample Matrix**

W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other \_\_\_\_\_

Relinquished By	Date	Time	Received By	Date	Time
<i>MS</i>	11/8/17	12:37	<i>ZUM</i>	11-8-17	12:37
			<i>KRS</i>	11/9/2017	17:10

Custody Seals Intact  Yes  No  N/A

Sample Temp. 19.3 C Satisfactory  Yes  No  N/A

Evidence Of Cooling  Yes  No  N/A

Samples Received Intact  Yes  No  N/A

Chain Of Custody & Labels Agree  Yes  No  N/A

Temperature: 0.8°C



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 15, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-32722 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Monday November 13, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Bryce Jensen  
Chief Inorganic Chemist

Enclosures: Data Report  
QC Reports  
Chain of Custody



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32722**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/15/17  
 Date Received: 11/13/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 10		Matrix: Other		Sample Date: 11/6/17								
Lab Number: 70699				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00361	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114
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**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.





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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32722**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/15/17  
 Date Received: 11/13/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 11		Matrix: Other		Sample Date: 11/6/17								
Lab Number: 70700				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00337	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114
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Notes:

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 D.F. - Dilution Factor

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32722**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/15/17  
 Date Received: 11/13/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 12		Matrix: Other		Sample Date: 11/7/17								
Lab Number: 70701				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00358	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114
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Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32722**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/15/17  
 Date Received: 11/13/17  
 Approved By: bj  
 Authorized By:

Bryce Jensen  
 Chief Inorganic Chemist

Sample Description: LOT 13		Matrix: Other		Sample Date: 11/7/17								
Lab Number: 70702				Collected By:								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00294	0.200	0.0050		mg/L	Pass	7470A/1311	11/14/17	RHF	a	7470A_171114
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Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

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### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-32722**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171114	0 MERCURY	0.00161	0.00167	mg/L	7470A	96	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-32722**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171114	1 MERCURY	0.000180	0.000200	mg/L	7470A	90	50-150	LLFB	MRL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-32722**

Report Date: 11/15/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171114	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-32722**

Report Date: 11/15/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171114	0 MERCURY	0.00232	0.00228	mg/L	7470A	102	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171114</b>											
	70179	MERCURY	ND	ND		mg/L	NA	0-45			DUP
	70251	MERCURY	ND	ND		mg/L	NA	0-45			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt



Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171114</b>															
	70179	MERCURY	ND	0.00144	0.00143	0.00167	mg/L	86	86	70-130	0.7	0-20		LFM	
	70251	MERCURY	ND	0.00191	0.00198	0.00167	mg/L	114	119	70-130	3.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt





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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 20, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-32895 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Tuesday November 14, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report  
QC Reports  
Chain of Custody



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32895**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/20/17  
 Date Received: 11/14/17  
 Approved By: anp  
 Authorized By:

*Patrick Miller*  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 14		Matrix: Other						Sample Date: 11/8/17				
Lab Number: 71074								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00337	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/17/17	RHF	a	7470A_171111
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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32895**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/20/17  
 Date Received: 11/14/17  
 Approved By: anp  
 Authorized By:

Patrick Miller, MS  
 QA Officer

Sample Description: Lot 15		Matrix: Other						Sample Date: 11/8/17				
Lab Number: 71075								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00372	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/17/17	RHF	a	7470A_171111

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32895**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/20/17  
 Date Received: 11/14/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 16		Matrix: Other						Sample Date: 11/9/17				
Lab Number: 71076								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.0240	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/17/17	RHF	a	7470A_171111
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Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-32895**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/20/17  
 Date Received: 11/14/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 17		Matrix: Other						Sample Date: 11/9/17				
Lab Number: 71077								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00300	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/17/17	RHF	a	7470A_171111

Notes:

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 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-32895**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171117	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-32895**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171117	1 MERCURY	0.000189	0.000200	mg/L	7470A	95	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-32895**

Report Date: 11/20/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171117	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-32895**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171117	0 MERCURY	0.00231	0.00228	mg/L	7470A	101	90-110			QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
7470A_171117	71077	MERCURY	0.00300	0.00231		mg/L	26.0	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171117</b>															
	71077	MERCURY	0.00300	0.00496	0.00673	0.00167	mg/L	117	223	70-130	62.2	0-20	INH	LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

## Qualifier Definitions

Reference Number: 17-32895

Report Date: 11/20/17

Qualifier	Definition
INH	The sample was non-homogeneous

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

Report To: ASPECT CONSULTING  
 Address:  
 City: State: Zip:  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax:  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name: GP Hg Soil Treatment

Billing Email: accountspayable@aspectconsulting.com  
 Bill To: Accounts Payable, Aspect Consulting  
 Address 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA MIC Expires:  
 Card#:

**17-32895**  
 71074-71077

**CHECK REGULATORY PROGRAM**

Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other

**EDGE ANALYTICAL** PAGE 1 OF 1

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**

1. Use one line per sample location.
2. Be specific in test requests.
3. List each metal individually.
4. Check off analysis to be performed for each sample location.
5. Enter number of containers.

**Turn Around Time Required**

Standard  
 Half-Time (50% Surcharge)  
 3-day TAT, \$160 ea  
 Emergency (Phone Call Required)

## Analysis Requested

Sample ID	Location	Sample Matrix (See Below)	Grab Composite	Date	Time	TCLP (1311)/ Hg (7470A)	Analysis Requested				Number Of Containers	Special Instruction/ Conditions on Receipt	
1	LOT 14	S	C	11/8	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
2	LOT 15	S	C	11/8	16:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
3	LOT 16	S	C	11/9	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
4	LOT 17	S	C	11/9	16:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Sample Receipt requested (Must include FAX or Email)

Sample results also to Dave Heffner, dheffner@aspectconsulting.com

Sampled By: MV

Phone: Fax: Email: 4

W - Water  
 DW - Drinking Water  
 SW - Surface Water  
 GW - Ground Water  
 WW - Wastewater  
 S - Soil  
 OL - Oil  
 Other

Relinquished By	Date	Time	Received By	Date	Time
MV	11/14	11:54	BP	11/14/17	17:54
				11/14/17	15:24

Edge

Custody Seals Intact  Yes  No  N/A

Sample Temp 17.1 C Satisfactory  Yes  No  N/A

Evidence Of Cooling  Yes  No  N/A

Samples Received Intact  Yes  No  N/A

Chain Of Custody & Labels Agree  Yes  No  N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 20, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-33123 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Wednesday November 15, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report





Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33123**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/20/17  
 Date Received: 11/15/17  
 Approved By: anp  
 Authorized By:

*Patrick Miller*  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 18 -		Matrix: Other		Sample Date: 11/9/17								
Lab Number: 71660				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment

7439-97-6	<b>MERCURY</b>	0.00227	0.200	0.0005	1.40E-05	mg/L	Pass	7470A/1311	11/17/17	RHF	a	7470A_171111
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Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-33123**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171117	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-33123**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171117	1 MERCURY	0.000189	0.000200	mg/L	7470A	95	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-33123**

Report Date: 11/20/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171117	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-33123**

Report Date: 11/20/17

Batch	Analyte	Result	True		Method	%	Recovery Limits*	QC	QC	Comment
			Value	Units				Qualifier Type		
7470A_171117	0 MERCURY	0.00231	0.00228	mg/L	7470A	101	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
7470A_171117	71077	MERCURY	0.00300	0.00231		mg/L	26.0	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171117</b>															
	71077	MERCURY	0.00300	0.00496	0.00673	0.00167	mg/L	117	223	70-130	62.2	0-20	INH	LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

## Qualifier Definitions

Reference Number: 17-33123

Report Date: 11/20/17

Qualifier	Definition
INH	The sample was non-homogeneous

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.



# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

17-33123  
7/16/00



Report To: ASPECT CONSULTING  
 Address:  
 City: State: Zip:  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax:  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name: GP Hg Soil Treatment

Billing Email: accounts payable@aspectconsulting.com  
 Bill To: Accounts Payable, Aspect Consulting  
 Address 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 206/807722 P.O.#: 070188-27  
 Card: VISA M/C Expires:  
 Card#:

CHECK REGULATORY PROGRAM  
 Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Convalis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Convalis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**  
 1. Use one line per sample location  
 2. Be specific in test requests  
 3. List each metal individually  
 4. Check off analysis to be performed for each sample location  
 5. Enter number of containers

Turn Around Time Required  
 Standard  
 Half-Time (50% Surcharge)  
 3-day TAT, \$160 ea  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Comp	Date	Time	TCLP (1311)/ Hg (7470A)	Number Of Containers										Special Instruction/ Conditions on Receipt							
1	LOT 13	S	C	11/9/07	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
2						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Sample Receipt requested (Must include FAX or Email)   
 Sample results also to Dave Heffner,  
 dheffner@aspectconsulting.com

Phone: Fax: Email:  
 Sample Matrix  
 W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other

Relinquished By	Date	Time	Received By	Date	Time
MW	11-15	12:25	DM	11-15-07	12:30

Analysis Requested  
 Custody Seals Intact  Yes  No  N/A  
 Sample Temp 18.5 C Satisfactory  Yes  No  N/A  
 Evidence Of Cooling  Yes  No  N/A  
 Samples Received Intact  Yes  No  N/A  
 Chain Of Custody & Labels Agree  Yes  No  N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 29, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-33710 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Tuesday November 21, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33710**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

Patrick Miller, MS  
 QA Officer

Sample Description: Lot 19		Matrix: Other						Sample Date: 11/10/17				
Lab Number: 72877								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00987	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33710**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 20		Matrix: Other						Sample Date: 11/13/17				
Lab Number: 72878								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.0116	0.200	0.0500		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33710**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 21		Matrix: Other						Sample Date: 11/13/17				
Lab Number: 72879								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.006285	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-33710**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171128	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-33710**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171128	1 MERCURY	0.000191	0.000200	mg/L	7470A	96	50-150	LLFB	MRL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-33710**

Report Date: 11/29/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171128	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-33710**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171128	0 MERCURY	0.00219	0.00228	mg/L	7470A	96	90-110			QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171128</b>											
	72868	MERCURY	0.00658	0.00702		mg/L	6.5	0-45			DUP
	72884	MERCURY	0.00106	0.00100		mg/L	5.8	0-45			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171128</b>															
	72868	MERCURY	0.00658	0.00835	0.00827	0.00167	mg/L	106	101	70-130	4.6	0-20		LFM	
	72884	MERCURY	0.00116	0.00292	0.00304	0.00167	mg/L	105	113	70-130	6.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

Report To: ASPECT CONSULTING  
 Address:  
 City: State: Zip:  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax:  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name: GP-Hg Soil Treatment

Billing Email: accounts payable@aspectconsulting.com  
 Bill To: Accounts Payable, Aspect Consulting  
 Address: 350 Madison Ave N  
 City: Beltnridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA M/C Expires:  
 Card#:

**17-33710**  
 72877 - 72879

CHECK REGULATORY PROGRAM

- Safe Drinking Water Act
- Clean Water Act
- RCRA / CERCLA
- Other

Analysis Requested:

ANALYTICAL  
 Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4945)  
 540 SW 3rd St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**

- Use one line per sample/location.
- Be specific in test requests
- List each metal individually
- Check off analysis to be performed for each sample/location.
- Enter number of containers.

Turn Around Time Required

Standard

Half Time (50% Surcharge)

3-day TAT, \$160 ea

Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	TCLP (1311)/ Hg (7470A)	Analysis Requested										Number Of Containers	Special Instruction/ Conditions on Receipt			
1	LOT 19	S	C	11/10/17	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
2	LOT 20	S	C	11/13/17	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
3	LOT 21	S	C	11/13/17	17:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampled By: MV						Phone: Fax: Email:										3	Total Containers				

Sample Receipt requested (Must include FAX or Email)   
 sample results also to Dave Heffner, dheffner@aspectconsulting.com

\*Sample Matrix

W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other

Relinquished By	Date	Time	Received By	Date	Time
MV	11/21	8:50	MRI	11/21	8:50

Gustody/Seals Intact  Yes  No  N/A

Sample Temp 20 °C Satisfactory  Yes  No  N/A

Evidence Of Cooling  Yes  No  N/A

Samples Received Intact  Yes  No  N/A

Chain Of Custody & Labels Agree  Yes  No  N/A



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 29, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-33706 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Tuesday November 21, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33706**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

*Patrick Miller*  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 22 -		Matrix: Other		Sample Date: 11/15/17								
Lab Number: 72868				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00658	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33706**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 23 -		Matrix: Other		Sample Date: 11/15/17								
Lab Number: 72869				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00637	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33706**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 24 - Lab Number: 72870		Matrix: Other				Sample Date: 11/15/17 Collected By: MV						
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00977	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.





### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-33706**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7470A_171128	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130		LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-33706**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171128	1 MERCURY	0.000191	0.000200	mg/L	7470A	96	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-33706**

Report Date: 11/29/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171128	0 MERCURY	ND		mg/L	7470A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-33706**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery Limits*	QC	QC	Comment
			Value	Units				Qualifier Type		
7470A_171128	0 MERCURY	0.00219	0.00228	mg/L	7470A	96	90-110		QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171128</b>											
	72868	MERCURY	0.00658	0.00702		mg/L	6.5	0-45			DUP
	72884	MERCURY	0.00106	0.00100		mg/L	5.8	0-45			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171128</b>															
	72868	MERCURY	0.00658	0.00835	0.00827	0.00167	mg/L	106	101	70-130	4.6	0-20		LFM	
	72884	MERCURY	0.00116	0.00292	0.00304	0.00167	mg/L	105	113	70-130	6.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

**17-333706**



Report To: ASPECT CONSULTING  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax: \_\_\_\_\_  
 Report Email: myonderahe@aspectconsulting.com  
 Project Name: GP Hg Soil Treatment

Bill To: Accounts Payable, Aspect Consulting  
 Address: 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA M/C Expires: \_\_\_\_\_  
 Card#: \_\_\_\_\_

Check Regulatory Program  
 Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr., Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3rd St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**  
 1. Use one line per sample location.  
 2. Be specific in test requests.  
 3. List each metal individually.  
 4. Check off analysis to be performed for each sample location.  
 5. Enter number of containers.

Turn Around Time Required  
 Standard  
 Half-Time (50% Surcharge)  
 3-day TAT, \$160 ea  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Type (See Below)	Grab or Composite	Date	Time	Analysis Requested		Number Of Containers	Special Instruction/ Conditions on Receipt
						TCLP (1311)/ Hg (7470A)			
1	LOT 22	S	C	11/15	13:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	
2	LOT 23	S	C	11/15	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	
3	LOT 24	S	C	11/15	17:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	
4						<input type="checkbox"/>	<input type="checkbox"/>		
5						<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>		
Sampled By: MV						Phone: _____	Fax: _____	Email: _____	
Sample Receipt requested (Must include FAX or Email) <input checked="" type="checkbox"/>						Sample Matrix			
Sample results also to Dave Heffner, dheffner@aspectconsulting.com						W - Water	SW - Surface Water	WW - Wastewater	OL - Oil
						DW - Drinking Water	GW - Ground Water	S - Soil	Other _____

Relinquished By: \_\_\_\_\_ Date: 11/21/15 Time: 8:50  
 Received By: \_\_\_\_\_ Date: 11/21/15 Time: 8:50  
 WI

Custody Seals Intact  Yes  No  N/A  
 Sample Temp 22.3 C Satisfactory  Yes  No  N/A  
 Evidence Of Coaling  Yes  No  N/A  
 Samples Received Intact  Yes  No  N/A  
 Chain Of Custody & Labels Agree  Yes  No  N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 29, 2017

Page 1 of 1

Matthew Von Der Ahe  
Aspect Consulting, LLC  
350 Madison Avenue North  
Bainbridge Island, WA 98110  
RE: 17-33712 - GP Hg Soil Treatment

Dear Matthew Von Der Ahe,

Your project: GP Hg Soil Treatment, was received on Tuesday November 21, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS  
QA Officer

Enclosures: Data Report





Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33712**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

*Patrick Miller*  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 25 -		Matrix: Other		Sample Date: 11/16/17								
Lab Number: 72881				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00399	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33712**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 26 -		Matrix: Other		Sample Date: 11/16/17								
Lab Number: 72882				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00457	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33712**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 27 -		Matrix: Other		Sample Date: 11/16/17								
Lab Number: 72883				Collected By: MV								
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00400	0.200	0.0050		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

# Toxic Leaching Characteristic Procedure Data Report

Client Name: Aspect Consulting, LLC  
 350 Madison Avenue North  
 Bainbridge Island, WA 98110

Reference Number: **17-33712**  
 Project: GP Hg Soil Treatment  
 Report Date: 11/29/17  
 Date Received: 11/21/17  
 Approved By: anp  
 Authorized By:

  
 Patrick Miller, MS  
 QA Officer

Sample Description: Lot 28		Matrix: Other						Sample Date: 11/16/17				
Lab Number: 72884								Collected By: MV				
CAS ID#	Parameter	Result	MCL	PQL	MDL	Units	Method	Analyzed	Analyst	lab	Batch	Comment
7439-97-6	MERCURY	0.00116	0.200	0.0005		mg/L	Pass 7470A/1311	11/28/17	RHF	a	7470A_17112	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-33712**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171128	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130			LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low-Level Lab Fortified Blank

Reference Number: **17-33712**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7470A_171128	1 MERCURY	0.000191	0.000200	mg/L	7470A	96	50-150	LLFB	MRL		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-33712**

Report Date: 11/29/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7470A_171128	0 MERCURY	ND		mg/L	7470A		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-33712**

Report Date: 11/29/17

Batch	Analyte	Result	True		Method	%	Recovery Limits*	QC	QC	Comment
			Value	Units				Qualifier Type	Qualifier Type	
7470A_171128	0 MERCURY	0.00219	0.00228	mg/L	7470A	96	90-110			QCS

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.





**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
<b>7470A_171128</b>											
	72868	MERCURY	0.00658	0.00702		mg/L	6.5	0-45			DUP
	72884	MERCURY	0.00106	0.00100		mg/L	5.8	0-45			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7470A_171128</b>															
	72868	MERCURY	0.00658	0.00835	0.00827	0.00167	mg/L	106	101	70-130	4.6	0-20		LFM	
	72884	MERCURY	0.00116	0.00292	0.00304	0.00167	mg/L	105	113	70-130	6.6	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

**72881 - 72884**  
**17-33712**



Report To: ASPECT CONSULTING  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Attn: MATTHEW VON DER AHE  
 Phone: 206-718-9548 Fax: \_\_\_\_\_  
 Report Email: mvonderahe@aspectconsulting.com  
 Project Name: GP Hg Soil Treatment

Bill To: Accounts Payable, Aspect Consulting  
 Address: 350 Madison Ave N  
 City: Bainbridge Island State: WA Zip: 98110  
 Phone: 2067807722 P.O.#: 070188-27  
 Card: VISA M/C Expires: \_\_\_\_\_  
 Card#: \_\_\_\_\_

**CHECK REGULATORY PROGRAM**

Safe Drinking Water Act  
 Clean Water Act  
 RCRA / CERCLA  
 Other

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)  
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225  
 Portland Lab (503-682-7802)  
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070  
 Corvallis Lab (541-753-4946)  
 540 SW 3<sup>rd</sup> St. Corvallis, OR 97333  
 Bend Lab (541-639-8425)  
 20332 Empire Ave. Suite F4 Bend, OR 97703

**INSTRUCTIONS "PLEASE READ"**

1. Use one line per sample location.
2. Be specific in test requests.
3. List each metal individually.
4. Check off analysis to be performed for each sample location.
5. Enter number of containers.

**Turn Around Time Required**

Standard  
 Half-Time (50% Surcharge)  
 3-day TAT, \$160 ea  
 Emergency (Phone Call Required)

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	TCLP (1311)/ Hg (7470A)	Analysis Requested				Number Of Containers	Special Instruction/ Conditions on Receipt	
1	LOT 25	S	C	11/16	13:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
2	LOT 26	S	C	11/16	15:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
3	LOT 27	S	C	11/16	17:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
4	LOT 28	S	C	11/16	17:30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1		
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Sampled By: Mv						Phone: _____	Fax: _____				Email: _____	4	Total Containers

Sample Receipt requested (Must include FAX or Email)   
 sample results also to Dave Heffner,  
 dheffner@aspectconsulting.com

**\* Sample Matrix**

W - Water      SW - Surface Water      WW - Wastewater      OL - Oil  
 DW - Drinking Water      GW - Ground Water      S - Soil      Other \_\_\_\_\_

Relinquished By	Date	Time	Received By	Date	Time
M. Vonderahe	11/21/07	5:50	KRD	11/21/07	6:50

Custody Seals Intact  Yes  No  N/A

Sample Temp 20.8 C Satisfactory

Evidence Of Cooling

Samples Received Intact

Chain Of Custody & Labels Agree

## **APPENDIX D**

### **Summary Table and Laboratory Reports, Perimeter Air Monitoring**

**Table D-1 - Summary of Sorbent Trap Perimeter Air Monitoring Results**

Project No. 070188, Mercury Soil Treatment and Disposal Project, Bellingham, Washington

Perimeter Sample Station	Sorbent Trap Deployment Date <sup>1</sup>	Air Volume Pumped through Trap (L)	Laboratory Sample ID	Hg Mass in Trap (ng)	Calculated [Hg] in Air <sup>2</sup> (µg/m <sup>3</sup> )
A	10/13/2017	1,375	1742031-01	2.00 U	0.001 U
B	10/13/2017	1,379	1742031-02	2.44 J	0.002 J
C	10/13/2017	--	--	--	--
D	10/13/2017	--	--	--	--
A	10/14/2017	1,361	1742031-05	2.20 J	0.002 J
B	10/14/2017	1,362	1742031-06	2.56 J	0.002 J
C	10/14/2017	1,362	1742031-07	2.00 U	0.001 U
D	10/14/2017	1,353	1742031-08	2.17 J	0.002 J
A	10/17/2017	1,445	1742068-01	2.00 U	0.001 U
B	10/17/2017	1,445	1742068-02	2.19 J	0.002 J
C	10/17/2017	1,443	1742068-03	3.60 J	0.002 J
D	10/17/2017	1,439	1742068-04	2.00 U	0.001 U
A	10/18/2017	1,387	1742068-05	2.00 U	0.001 U
B	10/18/2017	1,388	1742068-06	2.00 U	0.001 U
C	10/18/2017	1,388	1742068-07	2.46 J	0.002 J
D	10/18/2017	537	1742068-08	2.00 U	0.004 U
A	10/19/2017	1,331	1743033-01	3.57 J	0.003 J
B	10/19/2017	1,332	1743033-02	3.74 J	0.003 J
C	10/19/2017	1,337	1743033-03	38.8	0.029
D	10/19/2017	1,314	1743033-04	6.56	0.005
A	10/20/2017	960	1743033-05	2.00 U	0.002 U
B	10/20/2017	960	1743033-06	2.00 U	0.002 U
C	10/20/2017	960	1743033-07	70.3	0.073
D	10/20/2017	960	1743033-08	3.81 J	0.004 J
A	10/31/2017	1,296	1744035-01	5.33 J	0.004 J
B	10/31/2017	1,353	1744035-02	5.97 J	0.004 J
C	10/31/2017	1,203	1744035-03	87.6	0.073
D	10/31/2017	1,341	1744035-04	30.8	0.023
A	11/1/2017	1,494	1744051-01	2.00 U	0.001 U
B	11/1/2017	1,438	1744051-02	4.51 J	0.003 J
C	11/1/2017	1,444	1744051-03	146	0.101
D	11/1/2017	1,450	1744051-04	4.66 J	0.003 J
A	11/2/2017	1,394	1745007-01	2.12 J	0.002 J
B	11/2/2017	--	--	--	--
C	11/2/2017	1,371	1745007-02	23.6	0.017
D	11/2/2017	1,365	1745007-03	2.56 J	0.002 J
A	11/3/2017	1,430	1745007-04	3.96 J	0.003 J
B	11/3/2017	682	1745007-05	39.3	0.058
C	11/3/2017	1,425	1745007-06	3.54 J	0.002 J
D	11/3/2017	1,438	1745007-07	2.00 U	0.001 U
A	11/6/2017	1,492	1745017-01	22.6	0.015
B	11/6/2017	1,495	1745017-02	49.1	0.033
C	11/6/2017	1,494	1745017-03	6.53	0.004
D	11/6/2017	1,497	1745017-04	3.23 J	0.002 J
A	11/7/2017	1,420	1745031-01	31	0.022
B	11/7/2017	1,421	1745031-02	157	0.110
C	11/7/2017	--	1745031-03	27.5	--
D	11/7/2017	1,421	1745031-04	15.10	0.011
A	11/8/2017	1,426	1745053-01	15.4	0.011
B	11/8/2017	1,434	1745053-02	131	0.091
C	11/8/2017	1,437	1745053-03	36.8	0.026

**Table D-1 - Summary of Sorbent Trap Perimeter Air Monitoring Results**

Project No. 070188, Mercury Soil Treatment and Disposal Project, Bellingham, Washington

Perimeter Sample Station	Sorbent Trap Deployment Date <sup>1</sup>	Air Volume Pumped through Trap (L)	Laboratory Sample ID	Hg Mass in Trap (ng)	Calculated [Hg] in Air <sup>2</sup> (µg/m <sup>3</sup> )
D	11/8/2017	1,442	1745053-04	7.98	0.006
A	11/9/2017	1,455	1746002-01	6.36	0.004
B	11/9/2017	1,448	1746002-02	33.0	0.023
C	11/9/2017	1,450	1746002-03	57.3	0.040
D	11/9/2017	--	--	--	--
A	11/10/2017	1,571	1746005-01	11.9	0.008
B	11/10/2017	1,558	1746005-02	80.6	0.052
C	11/10/2017	1,551	1746005-03	163	0.105
D	11/10/2017	1,542	1746005-04	54.3	0.035
A	11/13/2017	1,423	1746015-01	2.00 U	0.001 U
B	11/13/2017	1,437	1746015-02	6.57	0.005
C	11/13/2017	1,419	1746015-03	75.9	0.053
D	11/13/2017	975	1746015-04	2.09 J	0.002 J
A	11/14/2017	1,414	1746040-01	2.00 U	0.001 U
B	11/14/2017	1,404	1746040-02	2.15 J	0.002 J
C	11/14/2017	1,400	1746040-03	64.1	0.046
D	11/14/2017	818	1746040-04	3.96 J	0.005 J
A	11/15/2017	1,403	1746062-01	2.00 U	0.001 U
B	11/15/2017	1,406	1746062-02	--	--
C	11/15/2017	1,407	1746062-03	130	0.092
D	11/15/2017	803	1746062-04	3.97 J	0.005 J
A	11/16/2017	1,426	1747001-01	9.72	0.007
B	11/16/2017	1,427	1747001-02	14.7	0.010
C	11/16/2017	1,424	1747001-03	165	0.116
D	11/16/2017	1,423	1747001-04	9.40	0.007
A	11/17/2017	1,591	1747013-01	12.0	0.008
B	11/17/2017	1,579	1747013-02	18.9	0.012
C	11/17/2017	1,580	1747013-03	167	0.106
D	11/17/2017	1,579	1747013-04	15.6	0.010
A	11/20/2017	1,482	1747021-01	8.19	0.006
B	11/20/2017	1,489	1747021-02	38.0	0.026
C	11/20/2017	1,486	1747021-03	51.7	0.035
D	11/20/2017	1,490	1747021-04	15.1	0.010
A	11/21/2017	1,388	1748005-01	14.4	0.010
B	11/21/2017	1,389	1748005-02	26.8	0.019
C	11/21/2017	709	1748005-03	33.3	0.047
D	11/21/2017	1,385	1748005-04	25.1	0.018
A	11/27/2017	1,429	1748021-01	6.41	0.004
B	11/27/2017	1,427	1748021-02	9.07	0.006
C	11/27/2017	1,416	1748021-03	60	0.042
D	11/27/2017	1,384	1748021-04	6.98	0.005

-- Sample trap or air pump compromised; no analysis performed.

µg/m<sup>3</sup> micrograms per cubic meter

L liters

Hg mercury

ng nanograms

J estimated value

U not detected at associated analytical reporting limit

Notes:

- 1) Sorbent traps were deployed for a sampling period of approximately 24 hours.
- 2) The mercury concentration in air was calculated by dividing the mass of mercury collected in the trap by the air volume pumped through the trap.



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

October 29, 2017

Aspect Consulting LLC  
ATTN: Accounts Payable  
179 Madrone Lane N  
Bainbridge Island, WA 98110

RE: Project ACO-SE1701

Dear Matthew von der Ahe,

This report contains results for the 8 iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on October 18, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology. Two of the samples were both labeled *C-20171014* and there was no sample labeled *D-20171014*. The client was contacted and asked for neither of those samples to be analyzed. Only six samples were analyzed and reported.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.





## Sample Information

<b>Sample</b>	<b>Lab ID</b>	<b>Report Matrix</b>	<b>Type</b>	<b>Sampled</b>	<b>Received</b>
A-20171014	1742031-01	Air	Sample	10/14/2017	10/18/2017
B-20171014	1742031-02	Air	Sample	10/14/2017	10/18/2017
C-20171014	1742031-03	Air	Sample	10/14/2017	10/18/2017
D-20171014	1742031-04	Air	Sample	10/14/2017	10/18/2017
A-20171015	1742031-05	Air	Sample	10/15/2017	10/18/2017
B-20171015	1742031-06	Air	Sample	10/15/2017	10/18/2017
C-20171015	1742031-07	Air	Sample	10/15/2017	10/18/2017
D-20171015	1742031-08	Air	Sample	10/15/2017	10/18/2017

## Batch Summary

<b>Analyte</b>	<b>Lab Matrix</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Batch</b>	<b>Sequence</b>
Hg	IC Trap /per	EPA 324/1631 Manual	10/23/2017	10/24/2017	B172846	1701314



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171014</b> 1742031-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>A-20171015</b> 1742031-05	Hg	Air	AR	2.20	J	2.00	6.00	ng/trap	B172846	1701314
<b>B-20171014</b> 1742031-02	Hg	Air	AR	2.44	J	2.00	6.00	ng/trap	B172846	1701314
<b>B-20171015</b> 1742031-06	Hg	Air	AR	2.56	J	2.00	6.00	ng/trap	B172846	1701314
<b>C-20171015</b> 1742031-07	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>D-20171015</b> 1742031-08	Hg	Air	AR	2.17	J	2.00	6.00	ng/trap	B172846	1701314



## Accuracy & Precision Summary

Batch: B172846  
Lab Matrix: IC Trap /per  
Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172846-BS1	Blank Spike, (1718019) Hg		50.00	48.14	ng/trap	96% 80-120	
B172846-DUP1	Duplicate (1742031-01) Hg	ND		ND	ng/trap		N/C 10
B172846-PS1	Post Spike (1742031-01) Hg	ND	40.00	39.71	ng/trap	99% 85-115	
B172846-DUP2	Duplicate (1742068-01) Hg	ND		ND	ng/trap		N/C 10
B172846-PS2	Post Spike (1742068-01) Hg	ND	40.00	38.58	ng/trap	96% 85-115	



## Method Blanks & Reporting Limits

**Batch:** B172846  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units		
B172846-BLK1	2.65	ng/trap		
B172846-BLK2	1.68	ng/trap		
B172846-BLK3	1.97	ng/trap		
B172846-BLK4	1.83	ng/trap		
<b>Average:</b>	2.034		<b>Standard Deviation:</b>	0.428
<b>Limit:</b>	4.000		<b>Limit:</b>	1.333
			<b>MDL:</b>	2.00
			<b>MRL:</b>	6.00



## Sample Containers

**Lab ID:** 1742031-01  
**Sample:** A-20171014  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/14/2017  
**Received:** 10/18/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Lab ID:** 1742031-02  
**Sample:** B-20171014  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/14/2017  
**Received:** 10/18/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Lab ID:** 1742031-03  
**Sample:** C-20171014  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/14/2017  
**Received:** 10/18/2017

**Comments:** Client labeled two samples with this sample name.

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Lab ID:** 1742031-04  
**Sample:** D-20171014  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/14/2017  
**Received:** 10/18/2017

**Comments:** This sample was missing.

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Lab ID:** 1742031-05  
**Sample:** A-20171015  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/15/2017  
**Received:** 10/18/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Lab ID:** 1742031-06  
**Sample:** B-20171015  
**Report Matrix:** Air  
**Sample Type:** Sample  
**Collected:** 10/15/2017  
**Received:** 10/18/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

**Project ID:** ASO-SE1701  
**PM:** Lydia Greaves



BAL Report 1742031  
**Client PM:** Matthew von der Ahe

## Sample Containers

<b>Lab ID:</b> 1742031-07 <b>Sample:</b> C-20171015 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>Pres-Lot</b>	<b>Collected:</b> 10/15/2017 <b>Received:</b> 10/18/2017 <b>pH</b>	<b>Ship. Cont.</b>
A Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

<b>Lab ID:</b> 1742031-08 <b>Sample:</b> D-20171015 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>Pres-Lot</b>	<b>Collected:</b> 10/15/2017 <b>Received:</b> 10/18/2017 <b>pH</b>	<b>Ship. Cont.</b>
A Client-Provided - Hg	n/a	n/a	none	n/a	n/a	Envelope

## Shipping Containers

### Envelope

**Received:** October 18, 2017 9:30  
**Tracking No:** 770517628666 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL Report 1742031

Received by: Madeline For BAL use only Date: 10/18/17

Work Order ID: \_\_\_\_\_ Time: 9:30

Project ID: \_\_\_\_\_

Client: Aspect PO Number: 070188-27

Contact: Matthew Vander Ahe Phone: 206 718 9548

Client Project ID: \_\_\_\_\_ Email: mrvanderahed@aspectconsulting.com

Samples Collected By: DM + MV

Mailing Address: \_\_\_\_\_

Email Receipt Confirmation?  Yes  No

BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20171014	10/14	12:09	air	1	2	none	X							
	2	B-20171014		12:59		1			X							
	3	C-20171014	LCG 10/29/17	13:08		1			X							
	4	D-20171014	LCG 10/29/17	13:12		1			X							
	5	A-20171015	10/15	13:43		1			X							
	6	B-20171015		13:52		1			X							
	7	C-20171015		13:59		1			X							
	8	D-20171015		14:01		1			X							
	9															
	10															
	Trip Blank															

Relinquished By: MV Date: 10/17 Time: 10:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

October 29, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the 8 iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on October 20, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com





## Report Information

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BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

<b>Sample</b>	<b>Lab ID</b>	<b>Report Matrix</b>	<b>Type</b>	<b>Sampled</b>	<b>Received</b>
A-20171018	1742068-01	Air	Sample	10/18/2017	10/20/2017
B-20171018	1742068-02	Air	Sample	10/18/2017	10/20/2017
C-20171018	1742068-03	Air	Sample	10/18/2017	10/20/2017
D-20171018	1742068-04	Air	Sample	10/18/2017	10/20/2017
A-20171019	1742068-05	Air	Sample	10/19/2017	10/20/2017
B-20171019	1742068-06	Air	Sample	10/19/2017	10/20/2017
C-20171019	1742068-07	Air	Sample	10/19/2017	10/20/2017
D-20171019	1742068-08	Air	Sample	10/19/2017	10/20/2017

## Batch Summary

<b>Analyte</b>	<b>Lab Matrix</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Batch</b>	<b>Sequence</b>
Hg	IC Trap /per	EPA 324/1631 Manual	10/23/2017	10/24/2017	B172846	1701314



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171018</b> 1742068-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>A-20171019</b> 1742068-05	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>B-20171018</b> 1742068-02	Hg	Air	AR	2.19	J	2.00	6.00	ng/trap	B172846	1701314
<b>B-20171019</b> 1742068-06	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>C-20171018</b> 1742068-03	Hg	Air	AR	3.60	J	2.00	6.00	ng/trap	B172846	1701314
<b>C-20171019</b> 1742068-07	Hg	Air	AR	2.46	J	2.05	6.15	ng/trap	B172846	1701314
<b>D-20171018</b> 1742068-04	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314
<b>D-20171019</b> 1742068-08	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172846	1701314



## Accuracy & Precision Summary

**Batch:** B172846  
**Lab Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172846-BS1	Blank Spike, (1718019) Hg		50.00	48.14	ng/trap	96% 80-120	
B172846-DUP1	Duplicate (1742031-01) Hg	ND		ND	ng/trap		N/C 10
B172846-PS1	Post Spike (1742031-01) Hg	ND	40.00	39.71	ng/trap	99% 85-115	
B172846-DUP2	Duplicate (1742068-01) Hg	ND		ND	ng/trap		N/C 10
B172846-PS2	Post Spike (1742068-01) Hg	ND	40.00	38.58	ng/trap	96% 85-115	



## Method Blanks & Reporting Limits

**Batch:** B172846  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units		
B172846-BLK1	2.65	ng/trap		
B172846-BLK2	1.68	ng/trap		
B172846-BLK3	1.97	ng/trap		
B172846-BLK4	1.83	ng/trap		
<b>Average:</b>	2.034		<b>Standard Deviation:</b>	0.428
<b>Limit:</b>	4.000		<b>Limit:</b>	1.333
			<b>MDL:</b>	2.00
			<b>MRL:</b>	6.00



## Sample Containers

<b>Lab ID:</b> 1742068-01 <b>Sample:</b> A-20171018 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/18/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 1
<b>Lab ID:</b> 1742068-02 <b>Sample:</b> B-20171018 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/18/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 1
<b>Lab ID:</b> 1742068-03 <b>Sample:</b> C-20171018 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/18/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 1
<b>Lab ID:</b> 1742068-04 <b>Sample:</b> D-20171018 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/18/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 1
<b>Lab ID:</b> 1742068-05 <b>Sample:</b> A-20171019 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/19/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 2
<b>Lab ID:</b> 1742068-06 <b>Sample:</b> B-20171019 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/19/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 2



## Sample Containers

<b>Lab ID:</b> 1742068-07 <b>Sample:</b> C-20171019 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/19/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 2
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<b>Lab ID:</b> 1742068-08 <b>Sample:</b> D-20171019 <b>Des Container</b> A Client-Provided - Hg	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>Pres-Lot</b> n/a	<b>Collected:</b> 10/19/2017 <b>Received:</b> 10/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope 2
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## Shipping Containers

### Envelope 1

**Received:** October 20, 2017 9:00  
**Tracking No:** 770534353742 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

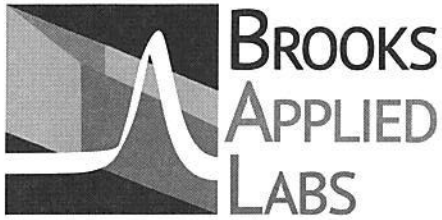
**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes

### Envelope 2

**Received:** October 20, 2017 9:00  
**Tracking No:** 770534353742 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL Report 1742068

Received by: Matthew Hee For BAL use only Date: 10/20/17  
 Work Order ID: 1742068 Time: 9:00  
 Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27  
 Contact: Matthew vanderAhe Phone: 206-718-9548  
 Client Project ID: 070188-27 Email: mvanderaher@aspect-  
 Samples Collected By: \_\_\_\_\_ consulting.com

Mailing Address: \_\_\_\_\_  
 Email Receipt Confirmation?  Yes/No  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input type="checkbox"/> Other _____ *Surcharges may apply to expedited TATs														
Sample ID	Specify Here													
1	A-20171019	10/19	10:32	air	1		X	X						
2	B-20171019		10:43		1		X	X						
3	C-20171019		10:51		1		X	X						
4	D-20171019		11:00		1		X	X						
5														
6														
7														
8														
9														
10														
Trip Blank														
Relinquished By: <u>MV</u>	Date: <u>10/19</u>	Time: <u>16:00</u>	Relinquished By: _____				Date: _____	Time: _____						
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____											





# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL Report 1742068

Received by: Andrew Blue For BAL Use only Date: 10/20/17  
 Work Order ID: 1742068 Time: 9:00  
 Project ID: \_\_\_\_\_

Client: Aspect PO Number: 070188-27  
 Contact: Matthew van der Ahe Phone: 206-718-9548  
 Client Project ID: \_\_\_\_\_ Email: mvanderahe@aspect  
 Samples Collected By: DIEM consulting.com

Mailing Address: \_\_\_\_\_  
 Email Receipt Confirmation?  (Yes)  (No)  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments		
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>															
Sample ID															Specify Here
1	A-20171018	10/18/17 10:29	Air	1	N	None	X								
2	B-20171018	↓ 10:38	↓	↓	↓	↓	X								
3	C-20171018	↓ 10:49	↓	↓	↓	↓	X								
4	D-20171018	↓ 10:54	↓	↓	↓	↓	X								
5															
6															
7															
8															
9															
10															
Trip Blank															
Relinquished By: <u>mvanderahe</u>	Date: <u>10/18/17</u>	Time: <u>16:00</u>	Relinquished By:	Date:	Time:										
Received By:	Date:	Time:	Total Number of Packages:												



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 03, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the eight (8) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on October 25, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171020	1743033-01	Air	Sample	10/20/2017	10/25/2017
B-20171020	1743033-02	Air	Sample	10/20/2017	10/25/2017
C-20171020	1743033-03	Air	Sample	10/20/2017	10/25/2017
D-20171020	1743033-04	Air	Sample	10/20/2017	10/25/2017
A-20171021	1743033-05	Air	Sample	10/21/2017	10/25/2017
B-20171021	1743033-06	Air	Sample	10/21/2017	10/25/2017
C-20171021	1743033-07	Air	Sample	10/21/2017	10/25/2017
D-20171021	1743033-08	Air	Sample	10/21/2017	10/25/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	10/27/2017	10/30/2017	B172901	1701344



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171020</b>										
1743033-01	Hg	Air	AR	3.57	J	2.00	6.00	ng/trap	B172901	1701344
<b>B-20171020</b>										
1743033-02	Hg	Air	AR	3.74	J	2.00	6.00	ng/trap	B172901	1701344
<b>C-20171020</b>										
1743033-03	Hg	Air	AR	38.8		2.00	6.00	ng/trap	B172901	1701344
<b>D-20171020</b>										
1743033-04	Hg	Air	AR	6.56		2.00	6.00	ng/trap	B172901	1701344
<b>A-20171021</b>										
1743033-05	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172901	1701344
<b>B-20171021</b>										
1743033-06	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172901	1701344
<b>C-20171021</b>										
1743033-07	Hg	Air	AR	70.3		2.00	6.00	ng/trap	B172901	1701344
<b>D-20171021</b>										
1743033-08	Hg	Air	AR	3.81	J	2.00	6.00	ng/trap	B172901	1701344



## Accuracy & Precision Summary

Batch: B172901  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172901-BS1	Blank Spike, (1718019) Hg		50.00	46.84	ng/trap	94% 80-120	
B172901-DUP1	Duplicate (1743033-03) Hg	38.76		40.09	ng/trap		3% 10
B172901-PS1	Post Spike (1743033-03) Hg	38.76	40.00	80.96	ng/trap	106% 85-115	

## Method Blanks & Reporting Limits

Batch: B172901  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B172901-BLK1	0.742	ng/trap
B172901-BLK2	0.712	ng/trap
B172901-BLK3	0.692	ng/trap
B172901-BLK4	0.627	ng/trap
<b>Average:</b>	<b>0.693</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.049</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1743033-01 <b>Sample:</b> A-20171020 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/20/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1743033-02 <b>Sample:</b> B-20171020 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/20/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1743033-03 <b>Sample:</b> C-20171020 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/20/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1743033-04 <b>Sample:</b> D-20171020 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/20/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1743033-05 <b>Sample:</b> A-20171021 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/21/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1743033-06 <b>Sample:</b> B-20171021 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/21/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

**Project ID:** ACO-SE1701  
**PM:** Lydia Greaves



BAL REPORT 1743033  
**Client PM:** Matthew Von der Ahe

## Sample Containers

<b>Lab ID:</b> 1743033-07 <b>Sample:</b> C-20171021 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/21/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
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<b>Lab ID:</b> 1743033-08 <b>Sample:</b> D-20171021 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b> na	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 10/21/2017 <b>Received:</b> 10/25/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
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## Shipping Containers

### Envelope

**Received:** October 25, 2017 9:30  
**Tracking No:** 770572949931 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes





# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1743033

For BAL use only  
 Received by: Ju Wuh Date: 10/25/17  
 Work Order ID: 1743033 Time: 0930  
 Project ID: ASO-SE1701

Client: Aspect PO Number: 070188-27 Mailing Address: \_\_\_\_\_  
 Contact: Matthew vanderAhe Phone: \_\_\_\_\_  
 Client Project ID: 070188-27 Email: m.vanderahed@aspectconsulting.com Email Receipt Confirmation?  Yes/ No  
 Samples Collected By: MV BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ *Surcharges may apply to expedited TATs	Sample ID														Specify Here	
	1	A-20171020	10/24/17	0815	A15	1		X								
	2	B-20171020		0900				X								
	3	C-20171020		0915				X								
	4	D-20171020		0926				X								
	5	A-20171021	10/21/17	0046				X								
	6	B-20171021		00:50				X								
	7	C-20171021		01:05				X								
	8	D-20171021		01:00				X								
	9															
	10															
	Trip Blank															

Relinquished By: MV Date: 10/23 Time: 16:30 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 13, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 02, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A - 20171101	1744035-01	Air	Sample	11/01/2017	11/02/2017
B - 20171101	1744035-02	Air	Sample	11/01/2017	11/02/2017
C - 20171101	1744035-03	Air	Sample	11/01/2017	11/02/2017
D - 20171101	1744035-04	Air	Sample	11/01/2017	11/02/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/03/2017	11/06/2017	B172999	1701378

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A - 20171101</b> 1744035-01	Hg	Air	AR	5.33	J	2.00	6.00	ng/trap	B172999	1701378
<b>B - 20171101</b> 1744035-02	Hg	Air	AR	5.97	J	2.00	6.00	ng/trap	B172999	1701378
<b>C - 20171101</b> 1744035-03	Hg	Air	AR	87.6		2.00	6.00	ng/trap	B172999	1701378
<b>D - 20171101</b> 1744035-04	Hg	Air	AR	30.8		2.00	6.00	ng/trap	B172999	1701378



## Accuracy & Precision Summary

Batch: B172999  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172999-BS1	Blank Spike, (1718019) Hg		50.00	47.60	ng/trap	95% 80-120	
B172999-DUP1	Duplicate (1744035-03) Hg	87.57		94.64	ng/trap		8% 10
B172999-PS1	Post Spike (1744035-03) Hg	87.57	100.0	192.4	ng/trap	105% 85-115	

## Method Blanks & Reporting Limits

Batch: B172999  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B172999-BLK1	0.331	ng/trap
B172999-BLK2	0.416	ng/trap
B172999-BLK3	0.462	ng/trap
B172999-BLK4	0.222	ng/trap
<b>Average:</b>	<b>0.358</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.106</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1744035-01 <b>Sample:</b> A - 20171101 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/01/2017 <b>Received:</b> 11/02/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744035-02 <b>Sample:</b> B - 20171101 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/01/2017 <b>Received:</b> 11/02/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744035-03 <b>Sample:</b> C - 20171101 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/01/2017 <b>Received:</b> 11/02/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744035-04 <b>Sample:</b> D - 20171101 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/01/2017 <b>Received:</b> 11/02/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

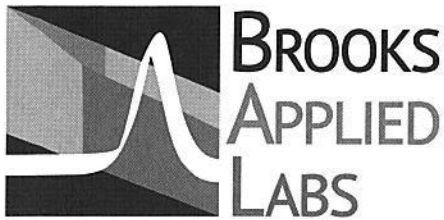
## Shipping Containers

### Envelope

**Received:** November 2, 2017 9:30  
**Tracking No:** 770647151850 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1744035

Received by: SEC For BAL use only Date: 11/2/17

Work Order ID: 1744035 Time: 0930

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070186-27 Mailing Address: \_\_\_\_\_

Contact: Matthew Vander-Ahe Phone: 206-718-9548

Client Project ID: 070186-27 Email: m.vanderaher@aspectconsulting.com Email Receipt Confirmation? (Yes/No)

Samples Collected By: Jennifer Allen jallen@andhergpa.com BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20170101	11/1/2017	0811	Air	↓	↓	X								
	2	B-20171101	↓	0914	↓	↓	↓	X								
	3	C-20171101	↓	0924	↓	↓	↓	X								
	4	D-20171101	↓	0942	↓	↓	↓	X								
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: JA Date: 11/1/2017 Time: 1530 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 13, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 03, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com





## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171102	1744051-01	Other	Sample	11/02/2017	11/03/2017
B-20171102	1744051-02	Other	Sample	11/02/2017	11/03/2017
C-20171102	1744051-03	Other	Sample	11/02/2017	11/03/2017
D-20171102	1744051-04	Other	Sample	11/02/2017	11/03/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/03/2017	11/06/2017	B172999	1701378

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171102</b> 1744051-01	Hg	Other	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172999	1701378
<b>B-20171102</b> 1744051-02	Hg	Other	AR	4.51	J	2.00	6.00	ng/trap	B172999	1701378
<b>C-20171102</b> 1744051-03	Hg	Other	AR	146		2.00	6.00	ng/trap	B172999	1701378
<b>D-20171102</b> 1744051-04	Hg	Other	AR	4.66	J	2.00	6.00	ng/trap	B172999	1701378



## Accuracy & Precision Summary

Batch: B172999  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172999-BS1	Blank Spike, (1718019) Hg		50.00	47.60	ng/trap	95% 80-120	
B172999-DUP1	Duplicate (1744035-03) Hg	87.57		94.64	ng/trap		8% 10
B172999-PS1	Post Spike (1744035-03) Hg	87.57	100.0	192.4	ng/trap	105% 85-115	

## Method Blanks & Reporting Limits

Batch: B172999  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B172999-BLK1	0.331	ng/trap
B172999-BLK2	0.416	ng/trap
B172999-BLK3	0.462	ng/trap
B172999-BLK4	0.222	ng/trap
<b>Average:</b>	<b>0.358</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.106</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1744051-01 <b>Sample:</b> A-20171102 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Other <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/02/2017 <b>Received:</b> 11/03/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744051-02 <b>Sample:</b> B-20171102 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Other <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/02/2017 <b>Received:</b> 11/03/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744051-03 <b>Sample:</b> C-20171102 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Other <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/02/2017 <b>Received:</b> 11/03/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1744051-04 <b>Sample:</b> D-20171102 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Other <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/02/2017 <b>Received:</b> 11/03/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

## Shipping Containers

### Envelope

**Received:** November 3, 2017 9:30  
**Tracking No:** 770654518637 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1744051

Received by: Sawyer For BAL use only Date: 11/3/17  
Work Order ID: 1744051 Time: 0930  
Project ID: \_\_\_\_\_

Client: Aspect PO Number: 070188-27  
Contact: Matthew Vander Ahe Phone: 206-718-9548  
Client Project ID: \_\_\_\_\_ Email: mrvanderahe@aspectconsulting.com  
Samples Collected By: JA Jillay@anchox.com

Mailing Address: \_\_\_\_\_  
Email Receipt Confirmation? (Yes/No)  
BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required							Comments		
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration	Other (specify)		Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20171102	11/02/2017	916	Air	1	I	I	X							
	2	B-20171102		930		1	I	I	X							
	3	C-20171102		943		1	I	I	X							
	4	D-20171102		1004		1	I	I	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: JA Date: 11/2/2017 Time: 3:30 PM Relinquished By: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 15, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the seven (7) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 07, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

<b>Sample</b>	<b>Lab ID</b>	<b>Report Matrix</b>	<b>Type</b>	<b>Sampled</b>	<b>Received</b>
A-20171103	1745007-01	air	Sample	11/03/2017	11/07/2017
C-20171103	1745007-02	air	Sample	11/03/2017	11/07/2017
D-20171103	1745007-03	air	Sample	11/03/2017	11/07/2017
A-20171104	1745007-04	air	Sample	11/04/2017	11/07/2017
B-20171104	1745007-05	air	Sample	11/04/2017	11/07/2017
C-20171104	1745007-06	air	Sample	11/04/2017	11/07/2017
D-20171104	1745007-07	air	Sample	11/04/2017	11/07/2017

## Batch Summary

<b>Analyte</b>	<b>Lab Matrix</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Batch</b>	<b>Sequence</b>
Hg	IC Trap /per	EPA 324/1631 Manual	11/08/2017	11/09/2017	B173034	1701399





## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171103</b> 1745007-01	Hg	air	AR	2.12	J	2.00	6.00	ng/trap	B173034	1701399
<b>C-20171103</b> 1745007-02	Hg	air	AR	23.6		2.00	6.00	ng/trap	B173034	1701399
<b>D-20171103</b> 1745007-03	Hg	air	AR	2.56	J	2.00	6.00	ng/trap	B173034	1701399
<b>A-20171104</b> 1745007-04	Hg	air	AR	3.96	J	2.00	6.00	ng/trap	B173034	1701399
<b>B-20171104</b> 1745007-05	Hg	air	AR	39.3		2.00	6.00	ng/trap	B173034	1701399
<b>C-20171104</b> 1745007-06	Hg	air	AR	3.54	J	2.00	6.00	ng/trap	B173034	1701399
<b>D-20171104</b> 1745007-07	Hg	air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173034	1701399



## Accuracy & Precision Summary

**Batch:** B173034  
**Lab Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173034-BS1	Blank Spike, (1745009) Hg		50.00	49.39	ng/trap	99% 80-120	
B173034-DUP1	Duplicate (1745007-02) Hg	23.63		24.13	ng/trap		2% 10
B173034-PS1	Post Spike (1745007-02) Hg	60.13	250.0	311.3	pg of Hg	100% 85-115	

## Method Blanks & Reporting Limits

**Batch:** B173034  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units
B173034-BLK1	0.333	ng/trap
B173034-BLK2	0.485	ng/trap
B173034-BLK3	0.428	ng/trap
B173034-BLK4	0.427	ng/trap
<b>Average:</b>	<b>0.418</b>	<b>Standard Deviation: 0.063</b>
<b>Limit:</b>	<b>4.000</b>	<b>Limit: 1.333</b>
		<b>MDL: 2.00</b>
		<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1745007-01 <b>Sample:</b> A-20171103 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/03/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-02 <b>Sample:</b> C-20171103 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/03/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-03 <b>Sample:</b> D-20171103 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/03/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-04 <b>Sample:</b> A-20171104 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/04/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-05 <b>Sample:</b> B-20171104 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/04/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-06 <b>Sample:</b> C-20171104 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/04/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1
<b>Lab ID:</b> 1745007-07 <b>Sample:</b> D-20171104 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/04/2017 <b>Received:</b> 11/07/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope #1

**Project ID:** ACO-SE1701  
**PM:** Lydia Greaves



BAL Report 1745007  
**Client PM:** Matthew Von der Ahe

## Shipping Containers

### Envelope #1

**Received:** November 7, 2017 10:00  
**Tracking No:** 770662949289 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

BAL Report 1745007

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

Received by: Matthew For BAL use only Date: 11/7/17  
 Work Order ID: \_\_\_\_\_ Time: 10:00  
 Project ID: \_\_\_\_\_

Client: Aspect PO Number: 070188-27  
 Contact: Matthew VanderAhe Phone: 206 718 9548  
 Client Project ID: \_\_\_\_\_ Email: m.vanderaher@aspectconsulting.com  
 Samples Collected By: JA + MV

Mailing Address: \_\_\_\_\_  
 Email Receipt Confirmation?  Yes  No  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, II, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID															
	1	A-20171104	11/4	0835	Air	1										Specify Here
	2	B-20171104	I	0843	I	1										
	3	C-20171104	I	0841	I	1										
	4	D-20171104	I	0836	I	1										
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															
Relinquished By: <u>MV</u>	Date: <u>11/4</u>	Time: <u>11:00</u>	Relinquished By: _____				Date: _____	Time: _____								
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____													



# Chain-of-Custody Form

BAL Report 1745007

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

For BAL use only

Received by: Madeline Date: 11/7/17

Work Order ID: Madeline Time: 10:00

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27 Mailing Address: \_\_\_\_\_

Contact: Matthew Vander-Ahe Phone: 206-718-9548

Client Project ID: \_\_\_\_\_ Email: mrvanderaher@aspectconsulting.com Email Receipt Confirmation? (Yes/No)

Samples Collected By: JA Jallen@anchorage.com BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(VI), Se(VI), SeCN, Unknown	Filtration		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Specify Here													
Sample ID														
1	A-20171103	11/3/2017 0834	Air	1	Y	Y	X							
2	<del>B-20171103</del>	<del>0843</del>	<del>↓</del>	<del>1</del>	<del>↓</del>	<del>↓</del>	<del>X</del>							Not Submitted
3	C-20171103	0852	↓	1	↓	↓	X							
4	D-20171103	0857	↓	1	↓	↓	X							
5														
6														
7														
8														
9														
10														
Trip Blank														
Relinquished By: <u>JA</u>	Date: <u>11/3/2017</u>	Time: <u>12:00PM</u>	Relinquished By: _____				Date: _____	Time: _____						
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____											



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 14, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 08, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.





## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171107	1745017-01	Air	Sample	11/07/2017	11/08/2017
B-20171107	1745017-02	Air	Sample	11/07/2017	11/08/2017
C-20171107	1745017-03	Air	Sample	11/07/2017	11/08/2017
D-20171107	1745017-04	Air	Sample	11/07/2017	11/08/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/09/2017	11/10/2017	B173041	1701406

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171107</b> 1745017-01	Hg	Air	AR	22.6		2.00	6.00	ng/trap	B173041	1701406
<b>B-20171107</b> 1745017-02	Hg	Air	AR	49.1		2.00	6.00	ng/trap	B173041	1701406
<b>C-20171107</b> 1745017-03	Hg	Air	AR	6.53		2.00	6.00	ng/trap	B173041	1701406
<b>D-20171107</b> 1745017-04	Hg	Air	AR	3.23	J	2.00	6.00	ng/trap	B173041	1701406



## Accuracy & Precision Summary

Batch: B173041  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173041-BS1	Blank Spike, (1745009) Hg		50.00	50.39	ng/trap	101% 80-120	
B173041-DUP1	Duplicate (1745017-03) Hg	6.526		6.505	ng/trap		0.3% 10
B173041-PS1	Post Spike (1745017-03) Hg	18.90	100.0	114.7	pg of Hg	96% 85-115	

## Method Blanks & Reporting Limits

Batch: B173041  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173041-BLK1	1.21	ng/trap
B173041-BLK2	0.980	ng/trap
B173041-BLK3	0.875	ng/trap
B173041-BLK4	1.07	ng/trap
<b>Average:</b>	<b>1.035</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.143</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1745017-01 <b>Sample:</b> A-20171107 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/07/2017 <b>Received:</b> 11/08/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745017-02 <b>Sample:</b> B-20171107 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/07/2017 <b>Received:</b> 11/08/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745017-03 <b>Sample:</b> C-20171107 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/07/2017 <b>Received:</b> 11/08/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745017-04 <b>Sample:</b> D-20171107 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/07/2017 <b>Received:</b> 11/08/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

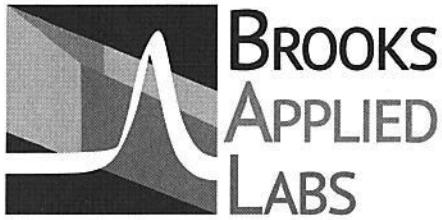
## Shipping Containers

### Envelope

**Received:** November 8, 2017 9:30  
**Tracking No:** 770686804266 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1745017

For BAL use only

Received by: Schering Date: 11/8/17  
Work Order ID: 1745017 Time: 9:30  
Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27  
Contact: Matthew vonderAbe Phone: 206-718-9548  
Client Project ID: \_\_\_\_\_ Email: mivonderabe@aspectconsulting.com  
Samples Collected By: JA jallen@anchorqea.com

Mailing Address: 1605 Cornwall Ave,  
Bellingham WA 98225  
Email Receipt Confirmation? (Yes/No)  
BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info					BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration	Other (specify)		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>															
Sample ID															Specify Here
1	A-20171107	11/7/2017	0911	Air	1	I	I	X							
2	B-20171107		0922		1			X							
3	C-20171107		0933		1			X							
4	D-20171107		0937		1			X							
5															
6															
7															
8															
9															
10															
	Trip Blank														

Relinquished By: \_\_\_\_\_ Date: 11/7/2017 Time: 12:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 20, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 09, 2017. The samples were logged-in for the contracted analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the Sample Results page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the Report Information page in your report. Please feel free to contact us if you have any questions regarding this report

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Misun Chun".

Misun Chun  
Data Management Specialist  
misun@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171108	1745031-01	Air	Sample	11/08/2017	11/09/2017
B-20171108	1745031-02	Air	Sample	11/08/2017	11/09/2017
C-20171108	1745031-03	Air	Sample	11/08/2017	11/09/2017
D-20171108	1745031-04	Air	Sample	11/08/2017	11/09/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/14/2017	11/15/2017	B173041	1701418

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171108</b> 1745031-01	Hg	Air	AR	30.7		2.00	6.00	ng/trap	B173041	1701418
<b>B-20171108</b> 1745031-02	Hg	Air	AR	157		2.00	6.00	ng/trap	B173041	1701418
<b>C-20171108</b> 1745031-03	Hg	Air	AR	27.5		2.00	6.00	ng/trap	B173041	1701418
<b>D-20171108</b> 1745031-04	Hg	Air	AR	15.1		2.00	6.00	ng/trap	B173041	1701418



## Accuracy & Precision Summary

Batch: B173041  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173041-BS1	Blank Spike, (1745009) Hg		50.00	50.39	ng/trap	101% 80-120	
B173041-DUP2	Duplicate (1745031-03) Hg	27.47		27.05	ng/trap		2% 10
B173041-PS2	Post Spike (1745031-03) Hg	27.47	80.00	107.8	ng/trap	100% 85-115	

## Method Blanks & Reporting Limits

Batch: B173041  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173041-BLK1	1.21	ng/trap
B173041-BLK2	0.980	ng/trap
B173041-BLK3	0.875	ng/trap
B173041-BLK4	1.07	ng/trap
<b>Average:</b>	<b>1.035</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.143</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>





## Sample Containers

<b>Lab ID:</b> 1745031-01 <b>Sample:</b> A-20171108 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/08/2017 <b>Received:</b> 11/09/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745031-02 <b>Sample:</b> B-20171108 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/08/2017 <b>Received:</b> 11/09/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745031-03 <b>Sample:</b> C-20171108 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/08/2017 <b>Received:</b> 11/09/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745031-04 <b>Sample:</b> D-20171108 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/08/2017 <b>Received:</b> 11/09/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

## Shipping Containers

### Envelope

**Received:** November 9, 2017 9:30  
**Tracking No:** 770700354654 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL Report 1745031

For BAL use only  
 Received by: S. L. King Date: 11/9/17  
 Work Order ID: 1745031 Time: 9:30  
 Project ID: \_\_\_\_\_

Client: Asped Consulting PO Number: 670188-27  
 Contact: Matthew Vander Ahe Phone: 206-718-9548  
 Client Project ID: \_\_\_\_\_ Email: m.vanderaher@aspedconsulting.com  
 Samples Collected By: Jennifer Allen jallen@aurhorizon.com

Mailing Address: 401 2nd Ave, S#201  
Seattle WA 98104  
 Email Receipt Confirmation? (Yes/No)  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments		
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here
	1	A-20171108	11/08/2017	08:59	Air	1	Y	Y	X						
	2	B-20171108	↓	09:05	↓	1	↓	↓	X						
	3	C-20171108	↓	09:12	↓	1	↓	↓	X						
	4	D-20171108	↓	09:18	↓	1	↓	↓	X						
	5														
	6														
	7														
	8														
	9														
	10														
	Trip Blank														

Relinquished By: JA Date: 11/8/2017 Time: 16:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_

November 20, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 10, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com



Shahriyar Ahmed  
Project Coordinator  
shahriyar@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171109	1745053-01	Air	Sample	11/09/2017	11/10/2017
B-20171109	1745053-02	Air	Sample	11/09/2017	11/10/2017
C-20171109	1745053-03	Air	Sample	11/09/2017	11/10/2017
D-20171109	1745053-04	Air	Sample	11/09/2017	11/10/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/13/2017	11/14/2017	B173091	1701418

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171109</b> 1745053-01	Hg	Air	AR	15.4		2.00	6.00	ng/trap	B173091	1701418
<b>B-20171109</b> 1745053-02	Hg	Air	AR	131		2.00	6.00	ng/trap	B173091	1701418
<b>C-20171109</b> 1745053-03	Hg	Air	AR	36.8		2.00	6.00	ng/trap	B173091	1701418
<b>D-20171109</b> 1745053-04	Hg	Air	AR	7.98		2.00	6.00	ng/trap	B173091	1701418



## Accuracy & Precision Summary

Batch: B173091  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173091-BS1	Blank Spike, (1745009) Hg		50.00	55.36	ng/trap	111% 80-120	
B173091-DUP1	Duplicate (1745053-01) Hg	15.35		15.70	ng/trap		2% 10
B173091-PS1	Post Spike (1745053-01) Hg	15.35	80.00	92.01	ng/trap	96% 85-115	

## Method Blanks & Reporting Limits

Batch: B173091  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173091-BLK1	0.163	ng/trap
B173091-BLK2	0.340	ng/trap
B173091-BLK3	0.163	ng/trap
B173091-BLK4	1.12	ng/trap
<b>Average:</b>	<b>0.447</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.457</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1745053-01 <b>Sample:</b> A-20171109 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/09/2017 <b>Received:</b> 11/10/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745053-02 <b>Sample:</b> B-20171109 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/09/2017 <b>Received:</b> 11/10/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745053-03 <b>Sample:</b> C-20171109 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/09/2017 <b>Received:</b> 11/10/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope
<b>Lab ID:</b> 1745053-04 <b>Sample:</b> D-20171109 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/09/2017 <b>Received:</b> 11/10/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope

## Shipping Containers

### Envelope

**Received:** November 10, 2017 9:30  
**Tracking No:** 770709273139 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

For BAL use only  
 Received by: Solinsky Date: 11/10/17  
 Work Order ID: 1745053 Time: 9:30  
 Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27  
 Contact: Matthew Vander Valk Phone: 206-718-9540  
 Client Project ID: \_\_\_\_\_ Email: mrvondervalk@aspectconsulting.com  
 Samples Collected By: Janifer Allen julku@amnhorqca.com

Mailing Address: 401 2nd Ave, S#201  
Seattle WA 98104  
 Email Receipt Confirmation? (Yes/No)  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20171109	11/9/2017	08:56	Air	1	N	N	X							
	2	B-20171109	↓	09:10	↓	1	↓	↓	X							
	3	C-20171109	↓	09:21	↓	1	↓	↓	X							
	4	D-20171109	↓	09:32	↓	1	↓	↓	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: JA Date: 11/9/2017 Time: 12:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



November 20, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the three (3) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 13, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com



Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171110	1746002-01	Air	Sample	11/10/2017	11/13/2017
B-20171110	1746002-02	Air	Sample	11/10/2017	11/13/2017
C-20171110	1746002-03	Air	Sample	11/10/2017	11/13/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/13/2017	11/15/2017	B173091	1701418

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171110</b> 1746002-01	Hg	Air	AR	6.36		2.00	6.00	ng/trap	B173091	1701418
<b>B-20171110</b> 1746002-02	Hg	Air	AR	33.0		2.00	6.00	ng/trap	B173091	1701418
<b>C-20171110</b> 1746002-03	Hg	Air	AR	57.3		2.00	6.00	ng/trap	B173091	1701418



## Accuracy & Precision Summary

Batch: B173091  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173091-BS1	Blank Spike, (1745009) Hg		50.00	55.36	ng/trap	111% 80-120	
B173091-DUP1	Duplicate (1745053-01) Hg	15.35		15.70	ng/trap		2% 10
B173091-PS1	Post Spike (1745053-01) Hg	15.35	80.00	92.01	ng/trap	96% 85-115	

## Method Blanks & Reporting Limits

Batch: B173091  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173091-BLK1	0.163	ng/trap
B173091-BLK2	0.340	ng/trap
B173091-BLK3	0.163	ng/trap
B173091-BLK4	1.12	ng/trap
<b>Average:</b>	<b>0.447</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.457</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1746002-01 <b>Sample:</b> A-20171110			<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample			<b>Collected:</b> 11/10/2017 <b>Received:</b> 11/13/2017
<b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>
A IC Trap	n/a	n/a	none	n/a	n/a	Envelope
<b>Lab ID:</b> 1746002-02 <b>Sample:</b> B-20171110			<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample			<b>Collected:</b> 11/10/2017 <b>Received:</b> 11/13/2017
<b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>
A IC Trap	n/a	n/a	none	n/a	n/a	Envelope
<b>Lab ID:</b> 1746002-03 <b>Sample:</b> C-20171110			<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample			<b>Collected:</b> 11/10/2017 <b>Received:</b> 11/13/2017
<b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>
A IC Trap	n/a	n/a	none	n/a	n/a	Envelope

## Shipping Containers

### Envelope

**Received:** November 13, 2017 9:00  
**Tracking No:** 770720665684 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1746002

For BAL use only

Received by: Hali Heferman Date: 11/13/17

Work Order ID: \_\_\_\_\_ Time: 9:00

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27

Contact: Matthew von der Ahe Phone: 206-718-7548

Client Project ID: \_\_\_\_\_ Email: mvanderah@aspectconsulting.com

Samples Collected By: Jennifer Allen jallen@arborgeo.com

Mailing Address: 401 2nd Ave, S#201

Seattle WA 98104

Email Receipt Confirmation? (Yes/No)

BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Specify Here													
Sample ID														
1	A-20171110	11/10/2017	0914	Air	1	I	I	X						
2	B-20171110	↓	0925	↓	1	↓	↓	X						
3	C-20171110	↓	0934	↓	1	↓	↓	X						
4														
5														
6														
7														
8														
9														
10														
Trip Blank														

Relinquished By: A Date: 11/14/2017 Time: 12:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

November 22, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 14, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.





## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171111	1746005-01	Air	Sample	11/11/2017	11/14/2017
B-20171111	1746005-02	Air	Sample	11/11/2017	11/14/2017
C-20171111	1746005-03	Air	Sample	11/11/2017	11/14/2017
D-20171111	1746005-04	Air	Sample	11/11/2017	11/14/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/15/2017	11/16/2017	B173133	1701432

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171111</b> 1746005-01	Hg	Air	AR	11.9		2.00	6.00	ng/trap	B173133	1701432
<b>B-20171111</b> 1746005-02	Hg	Air	AR	80.6		2.00	6.00	ng/trap	B173133	1701432
<b>C-20171111</b> 1746005-03	Hg	Air	AR	163		2.00	6.00	ng/trap	B173133	1701432
<b>D-20171111</b> 1746005-04	Hg	Air	AR	54.3		2.00	6.00	ng/trap	B173133	1701432



## Accuracy & Precision Summary

Batch: B173133  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173133-BS1	Blank Spike, (1745009) Hg		50.00	49.28	ng/trap	99% 80-120	
B173133-DUP1	Duplicate (1746015-03) Hg	75.90		74.07	ng/trap		2% 10
B173133-PS1	Post Spike (1746015-03) Hg	75.90	120.0	197.3	ng/trap	101% 85-115	

## Method Blanks & Reporting Limits

Batch: B173133  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173133-BLK1	0.188	ng/trap
B173133-BLK2	-0.022	ng/trap
B173133-BLK3	0.191	ng/trap
B173133-BLK4	-0.029	ng/trap
<b>Average:</b>	<b>0.082</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.124</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

Lab ID:	Sample:	Des	Container	Size	Lot	Report Matrix:	Sample Type:	Preservation	P-Lot	Collected:	Received:	pH	Ship. Cont.
1746005-01	A-20171111	A	IC Trap			Air	Sample	none	n/a	11/11/2017	11/14/2017		Envelope - 1746005
1746005-02	B-20171111	A	IC Trap			Air	Sample	none	n/a	11/11/2017	11/14/2017		Envelope - 1746005
1746005-03	C-20171111	A	IC Trap			Air	Sample	none	n/a	11/11/2017	11/14/2017		Envelope - 1746005
1746005-04	D-20171111	A	IC Trap			Air	Sample	none	n/a	11/11/2017	11/14/2017		Envelope - 1746005

## Shipping Containers

### Envelope - 1746005

**Received:** November 14, 2017 9:30  
**Tracking No:** 770727647131 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1746005

Received by: Madeline Price For BAL Use Only Date: 11/14/17

Work Order ID: \_\_\_\_\_ Time: 9:30

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27

Contact: Matthew von der Ahe Phone: 206-718-9548

Client Project ID: \_\_\_\_\_ Email: mvond@aspectconsulting.com

Samples Collected By: Jennifer Allen jallen@anchorage.com

Mailing Address: 401 2nd Ave, S#201  
Seattle WA 98104

Email Receipt Confirmation? (Yes/No)

BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required							Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration	Other (specify)		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here
	1	A-20171111	11/11/2017	11:39	Air	1	Y	Y	X						
	2	B-20171111	↓	11:41	↓	1	Y	Y	X						
	3	C-20171111	↓	11:46	↓	1	Y	Y	X						
	4	D-20171111	↓	11:49	↓	1	Y	Y	X						
	5														
	6														
	7														
	8														
	9														
	10														
	Trip Blank														

Relinquished By: JA Date: 11/11/2017 Time: 3:30 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_

November 22, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 15, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com



Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171114	1746015-01	Air	Sample	11/14/2017	11/15/2017
B-20171114	1746015-02	Air	Sample	11/14/2017	11/15/2017
C-20171114	1746015-03	Air	Sample	11/14/2017	11/15/2017
D-20171114	1746015-04	Air	Sample	11/14/2017	11/15/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/15/2017	11/16/2017	B173133	1701432

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171114</b> 1746015-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173133	1701432
<b>B-20171114</b> 1746015-02	Hg	Air	AR	6.57		2.00	6.00	ng/trap	B173133	1701432
<b>C-20171114</b> 1746015-03	Hg	Air	AR	75.9		2.00	6.00	ng/trap	B173133	1701432
<b>D-20171114</b> 1746015-04	Hg	Air	AR	2.09	J	2.00	6.00	ng/trap	B173133	1701432



## Accuracy & Precision Summary

Batch: B173133  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173133-BS1	Blank Spike, (1745009) Hg		50.00	49.28	ng/trap	99% 80-120	
B173133-DUP1	Duplicate (1746015-03) Hg	75.90		74.07	ng/trap		2% 10
B173133-PS1	Post Spike (1746015-03) Hg	75.90	120.0	197.3	ng/trap	101% 85-115	

## Method Blanks & Reporting Limits

Batch: B173133  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173133-BLK1	0.188	ng/trap
B173133-BLK2	-0.022	ng/trap
B173133-BLK3	0.191	ng/trap
B173133-BLK4	-0.029	ng/trap
<b>Average:</b>	<b>0.082</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.124</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>





## Sample Containers

<b>Lab ID:</b> 1746015-01 <b>Sample:</b> A-20171114 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/14/2017 <b>Received:</b> 11/15/2017 <b>pH</b> <b>Ship. Cont.</b> envelope - 1746015
<b>Lab ID:</b> 1746015-02 <b>Sample:</b> B-20171114 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/14/2017 <b>Received:</b> 11/15/2017 <b>pH</b> <b>Ship. Cont.</b> envelope - 1746015
<b>Lab ID:</b> 1746015-03 <b>Sample:</b> C-20171114 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/14/2017 <b>Received:</b> 11/15/2017 <b>pH</b> <b>Ship. Cont.</b> envelope - 1746015
<b>Lab ID:</b> 1746015-04 <b>Sample:</b> D-20171114 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/14/2017 <b>Received:</b> 11/15/2017 <b>pH</b> <b>Ship. Cont.</b> envelope - 1746015

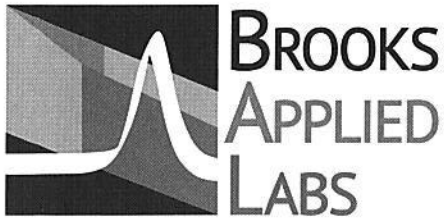
## Shipping Containers

### envelope - 1746015

**Received:** November 15, 2017 10:00  
**Tracking No:** 770743122862 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1746015

Received by: Matthew Max For BAL use only Date: 11/15/17

Work Order ID: \_\_\_\_\_ Time: 10:00

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27 Mailing Address: 401 2nd Ave, S#201  
 Contact: Matthew von der Ahe Phone: 206-718-9548 Seattle WA 98104  
 Client Project ID: \_\_\_\_\_ Email: mvonkramer@aspectconsulting.com Email Receipt Confirmation? (Yes/No)  
 Samples Collected By: Jennifer Allen jallen@anchorgea.com BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20171114	11/14/2017	0853	Air	1	N	N	X							
	2	B-20171114	↓	0916	↓	1	↓	↓	X							
	3	C-20171114	↓	0923	↓	1	↓	↓	X							
	4	D-20171114	↓	0937	↓	1	↓	↓	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: <u>JA</u>	Date: <u>11/14/2017</u>	Time: <u>12:00</u>	Relinquished By: _____	Date: _____	Time: _____
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____		



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 05, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 16, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171115	1746040-01	Air	Sample	11/15/2017	11/16/2017
B-20171115	1746040-02	Air	Sample	11/15/2017	11/16/2017
C-20171115	1746040-03	Air	Sample	11/15/2017	11/16/2017
D-20171115	1746040-04	Air	Sample	11/15/2017	11/16/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/20/2017	11/21/2017	B173157	1701452

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171115</b> 1746040-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173157	1701452
<b>B-20171115</b> 1746040-02	Hg	Air	AR	2.15	J	2.00	6.00	ng/trap	B173157	1701452
<b>C-20171115</b> 1746040-03	Hg	Air	AR	64.1		2.00	6.00	ng/trap	B173157	1701452
<b>D-20171115</b> 1746040-04	Hg	Air	AR	3.96	J	2.00	6.00	ng/trap	B173157	1701452



## Accuracy & Precision Summary

Batch: B173157  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173157-BS1	Blank Spike, (1745009) Hg		50.00	49.83	ng/trap	100% 80-120	
B173157-DUP1	Duplicate (1746040-03) Hg	64.10		62.50	ng/trap		3% 10
B173157-PS1	Post Spike (1746040-03) Hg	64.10	240.0	307.0	ng/trap	101% 85-115	
B173157-DUP2	Duplicate (1746062-02) Hg	129.7		132.7	ng/trap		2% 10
B173157-PS2	Post Spike (1746062-02) Hg	129.7	240.0	367.5	ng/trap	99% 85-115	



## Method Blanks & Reporting Limits

**Batch:** B173157  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units		
B173157-BLK1	0.352	ng/trap		
B173157-BLK2	0.369	ng/trap		
B173157-BLK3	0.253	ng/trap		
B173157-BLK4	1.29	ng/trap		
<b>Average:</b>	<b>0.567</b>		<b>Standard Deviation:</b>	<b>0.487</b>
<b>Limit:</b>	<b>4.000</b>		<b>Limit:</b>	<b>1.333</b>
			<b>MDL:</b>	<b>2.00</b>
			<b>MRL:</b>	<b>6.00</b>



## Sample Containers

Lab ID:	Sample:	Des	Container	Size	Lot	Report Matrix:	Sample Type:	Preservation	P-Lot	Collected:	Received:	pH	Ship. Cont.
1746040-01	A-20171115	A	IC Trap	n/a	n/a	Air	Sample	none	n/a	11/15/2017	11/16/2017		Envelope - 1746040
1746040-02	B-20171115	A	IC Trap	n/a	n/a	Air	Sample	none	n/a	11/15/2017	11/16/2017		Envelope - 1746040
1746040-03	C-20171115	A	IC Trap	n/a	n/a	Air	Sample	none	n/a	11/15/2017	11/16/2017		Envelope - 1746040
1746040-04	D-20171115	A	IC Trap	n/a	n/a	Air	Sample	none	n/a	11/15/2017	11/16/2017		Envelope - 1746040

## Shipping Containers

### Envelope - 1746040

**Received:** November 16, 2017 10:05  
**Tracking No:** 770756720800 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes





# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1746040

Received by: Matthew Thum For BAL use only Date: 11/16/17  
 Work Order ID: \_\_\_\_\_ Time: 10:05  
 Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27  
 Contact: Matthew von der Ahe Phone: 206-718-9548  
 Client Project ID: \_\_\_\_\_ Email: mvonderahe@aspectconsulting.com  
 Samples Collected By: Jennifer Allen jaliku@archorqa.com

Mailing Address: 401 2<sup>nd</sup> Ave, SA201  
Seattle WA 98104  
 Email Receipt Confirmation? (Yes/No)  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required							Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration	Other (specify)		Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here
	1	A-20171115	11/15/2017	0839	Air	1	1	1	X						
	2	B-20171115	↓	0851	↓	1	1	1	X						
	3	C-20171115	↓	0900	↓	1	1	1	X						
	4	D-20171115	↓	0909	↓	1	1	1	X						
	5														
	6														
	7														
	8														
	9														
	10														
	Trip Blank														

Relinquished By: JA Date: 11/15/2017 Time: 12:00 PM Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 05, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the three (3) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 17, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171116	1746062-01	Air	Sample	11/16/2017	11/17/2017
C-20171116	1746062-02	Air	Sample	11/16/2017	11/17/2017
D-20171116	1746062-03	Air	Sample	11/16/2017	11/17/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/20/2017	11/21/2017	B173157	1701452

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171116</b> 1746062-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173157	1701452
<b>C-20171116</b> 1746062-02	Hg	Air	AR	130		2.00	6.00	ng/trap	B173157	1701452
<b>D-20171116</b> 1746062-03	Hg	Air	AR	3.97	J	2.00	6.00	ng/trap	B173157	1701452



## Accuracy & Precision Summary

Batch: B173157  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173157-BS1	Blank Spike, (1745009) Hg		50.00	49.83	ng/trap	100% 80-120	
B173157-DUP1	Duplicate (1746040-03) Hg	64.10		62.50	ng/trap		3% 10
B173157-PS1	Post Spike (1746040-03) Hg	64.10	240.0	307.0	ng/trap	101% 85-115	
B173157-DUP2	Duplicate (1746062-02) Hg	129.7		132.7	ng/trap		2% 10
B173157-PS2	Post Spike (1746062-02) Hg	129.7	240.0	367.5	ng/trap	99% 85-115	



## Method Blanks & Reporting Limits

**Batch:** B173157  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units		
B173157-BLK1	0.352	ng/trap		
B173157-BLK2	0.369	ng/trap		
B173157-BLK3	0.253	ng/trap		
B173157-BLK4	1.29	ng/trap		
<b>Average:</b>	<b>0.567</b>		<b>Standard Deviation:</b>	<b>0.487</b>
<b>Limit:</b>	<b>4.000</b>		<b>Limit:</b>	<b>1.333</b>
			<b>MDL:</b>	<b>2.00</b>
			<b>MRL:</b>	<b>6.00</b>



## Sample Containers

<b>Lab ID:</b> 1746062-01 <b>Sample:</b> A-20171116 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/16/2017 <b>Received:</b> 11/17/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1746062
<b>Lab ID:</b> 1746062-02 <b>Sample:</b> C-20171116 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/16/2017 <b>Received:</b> 11/17/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1746062
<b>Lab ID:</b> 1746062-03 <b>Sample:</b> D-20171116 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/16/2017 <b>Received:</b> 11/17/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1746062

## Shipping Containers

### Envelope - 1746062

**Received:** November 17, 2017 9:30  
**Tracking No:** 770765245312 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1746062

For BAL use only

Received by: Hali Hafeman Date: 11/17/17

Work Order ID: \_\_\_\_\_ Time: 9:30

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27

Contact: Matthew vander Ahe Phone: 206-718-9548

Client Project ID: \_\_\_\_\_ Email: mvanvanderahed@aspectconsulting.com

Samples Collected By: Jennifer Allen jallen@andiorgea.com

Mailing Address: 401 2nd Ave, S#201

Seattle WA 98104

Email Receipt Confirmation? (Yes/No)

BAL PM: \_\_\_\_\_

Requested TAT (business days)		Collection		Client Sample Info				BAL Analyses Required						Comments				
		Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)		
<input type="checkbox"/> 20 (standard)		Sample ID																
<input type="checkbox"/> 15*		1	A-20171116	11/14/2017	0811	Air	1	Y	Y	X								Specify Here
<input type="checkbox"/> 10*		2	C-20171116	↓	0830	↓	1	Y	Y	X								
<input checked="" type="checkbox"/> 5*		3	D-20171116	↓	0839	↓	1	Y	Y	X								
<input type="checkbox"/> Other _____		4																
*Surcharges may apply to expedited TATs		5																
		6																
		7																
		8																
		9																
		10																
		Trip Blank																

Relinquished By: JA Date: 11/14/2017 Time: 12:00PM Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_





18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 05, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

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Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

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<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
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<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171117	1747001-01	Air	Sample	11/17/2017	11/20/2017
B-20171117	1747001-02	Air	Sample	11/17/2017	11/20/2017
C-20171117	1747001-03	Air	Sample	11/17/2017	11/20/2017
D-20171117	1747001-04	Air	Sample	11/17/2017	11/20/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/20/2017	11/21/2017	B173157	1701452

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171117</b> 1747001-01	Hg	Air	AR	9.72		2.00	6.00	ng/trap	B173157	1701452
<b>B-20171117</b> 1747001-02	Hg	Air	AR	14.7		2.00	6.00	ng/trap	B173157	1701452
<b>C-20171117</b> 1747001-03	Hg	Air	AR	165		2.05	6.15	ng/trap	B173157	1701452
<b>D-20171117</b> 1747001-04	Hg	Air	AR	9.40		2.00	6.00	ng/trap	B173157	1701452



## Accuracy & Precision Summary

Batch: B173157  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173157-BS1	Blank Spike, (1745009) Hg		50.00	49.83	ng/trap	100% 80-120	
B173157-DUP1	Duplicate (1746040-03) Hg	64.10		62.50	ng/trap		3% 10
B173157-PS1	Post Spike (1746040-03) Hg	64.10	240.0	307.0	ng/trap	101% 85-115	
B173157-DUP2	Duplicate (1746062-02) Hg	129.7		132.7	ng/trap		2% 10
B173157-PS2	Post Spike (1746062-02) Hg	129.7	240.0	367.5	ng/trap	99% 85-115	



## Method Blanks & Reporting Limits

**Batch:** B173157  
**Matrix:** IC Trap /per  
**Method:** EPA 324/1631 Manual  
**Analyte:** Hg

Sample	Result	Units		
B173157-BLK1	0.352	ng/trap		
B173157-BLK2	0.369	ng/trap		
B173157-BLK3	0.253	ng/trap		
B173157-BLK4	1.29	ng/trap		
<b>Average:</b>	<b>0.567</b>		<b>Standard Deviation:</b>	<b>0.487</b>
<b>Limit:</b>	<b>4.000</b>		<b>Limit:</b>	<b>1.333</b>
			<b>MDL:</b>	<b>2.00</b>
			<b>MRL:</b>	<b>6.00</b>



## Sample Containers

<b>Lab ID:</b> 1747001-01 <b>Sample:</b> A-20171117 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b> none	<b>Collected:</b> 11/17/2017 <b>Received:</b> 11/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747001
<b>Lab ID:</b> 1747001-02 <b>Sample:</b> B-20171117 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b> none	<b>Collected:</b> 11/17/2017 <b>Received:</b> 11/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747001
<b>Lab ID:</b> 1747001-03 <b>Sample:</b> C-20171117 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b> none	<b>Collected:</b> 11/17/2017 <b>Received:</b> 11/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747001
<b>Lab ID:</b> 1747001-04 <b>Sample:</b> D-20171117 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b> none	<b>Collected:</b> 11/17/2017 <b>Received:</b> 11/20/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747001

## Shipping Containers

### Envelope - 1747001

**Received:** November 20, 2017 9:30  
**Tracking No:** 770782831793 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1747001

For BAL use only  
 Received by: Schley Date: 11/20/17  
 Work Order ID: 1747001 Time: 9:30  
 Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27  
 Contact: Matthew von der Ahe Phone: 206-718-9548  
 Client Project ID: \_\_\_\_\_ Email: mvondevahe@aspectconsulting.com  
 Samples Collected By: Jennifer Allen jallen@andlogsea.com

Mailing Address: 401 2nd Ave, S #201  
Seattle WA 98104  
 Email Receipt Confirmation? (Yes/No)  
 BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ *Surcharges may apply to expedited TATs	Sample ID														Specify Here	
	1	A-20171117	11/17/2017	0809	Air	1	N	N	X							
	2	B-20171117	↓	0818	↓	1	↓	↓	X							
	3	C-20171117	↓	0825	↓	1	↓	↓	X							
	4	D-20171117	↓	0833	↓	1	↓	↓	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															
Relinquished By: <u>JA</u>	Date: <u>11/17/2017</u>	Time: _____	Relinquished By: _____	Date: _____	Time: _____	Total Number of Packages: _____										
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____													



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 05, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 21, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com





## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171118	1747013-01	Air	Sample	11/18/2017	11/21/2017
B-20171118	1747013-02	Air	Sample	11/18/2017	11/21/2017
C-20171118	1747013-03	Air	Sample	11/18/2017	11/21/2017
D-20171118	1747013-04	Air	Sample	11/18/2017	11/21/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/22/2017	11/24/2017	B173188	1701464

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171118</b> 1747013-01	Hg	Air	AR	12.0		2.00	6.00	ng/trap	B173188	1701464
<b>B-20171118</b> 1747013-02	Hg	Air	AR	18.9		2.00	6.00	ng/trap	B173188	1701464
<b>C-20171118</b> 1747013-03	Hg	Air	AR	167		2.00	6.00	ng/trap	B173188	1701464
<b>D-20171118</b> 1747013-04	Hg	Air	AR	15.6		2.00	6.00	ng/trap	B173188	1701464



## Accuracy & Precision Summary

Batch: B173188  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173188-BS1	Blank Spike, (1745009) Hg		50.00	54.28	ng/trap	109% 80-120	
B173188-DUP1	Duplicate (1747013-03) Hg	167.1		164.4	ng/trap		2% 10
B173188-PS1	Post Spike (1747013-03) Hg	167.1	160.0	335.5	ng/trap	105% 85-115	

## Method Blanks & Reporting Limits

Batch: B173188  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173188-BLK1	0.159	ng/trap
B173188-BLK2	0.166	ng/trap
B173188-BLK3	0.128	ng/trap
B173188-BLK4	0.089	ng/trap
<b>Average:</b>	<b>0.136</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.035</b>	<b>MDL: 2.00</b>
<b>Limit:</b>	<b>1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1747013-01 <b>Sample:</b> A-20171118 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/18/2017 <b>Received:</b> 11/21/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747013
<b>Lab ID:</b> 1747013-02 <b>Sample:</b> B-20171118 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/18/2017 <b>Received:</b> 11/21/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747013
<b>Lab ID:</b> 1747013-03 <b>Sample:</b> C-20171118 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/18/2017 <b>Received:</b> 11/21/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747013
<b>Lab ID:</b> 1747013-04 <b>Sample:</b> D-20171118 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b>	<b>Collected:</b> 11/18/2017 <b>Received:</b> 11/21/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747013

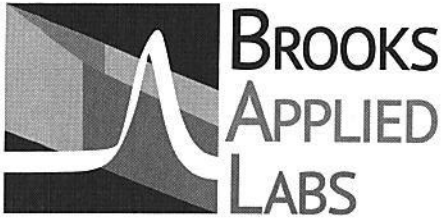
## Shipping Containers

### Envelope - 1747013

**Received:** November 21, 2017 10:15  
**Tracking No:** 770785295168 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1747013

For BAL use only  
Received by: Schumy Date: 11/21/17  
Work Order ID: 1747013 Time: 10:15  
Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 670188-27  
Contact: Matthew von der Aue Phone: 206-718-9548  
Client Project ID: \_\_\_\_\_ Email: mvm@aspectconsulting.com  
Samples Collected By: Jennifer Allen jallen@ndiorqa.com

Mailing Address: 401 2nd Ave, S#201  
Seattle WA 98104  
Email Receipt Confirmation? (Yes/No)  
BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here	
	1	A-20171118	11/18/2017	1042	Air	1	N	N	X							
	2	B-20171118	↓	1045	↓	1	↓	↓	X							
	3	C-20171118	↓	1049	↓	1	↓	↓	X							
	4	D-20171118	↓	1055	↓	1	↓	↓	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: JA Date: 11/18/2017 Time: 4:00 PM Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 05, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 22, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171121	1747021-01	air	Sample	11/21/2017	11/22/2017
B-20171121	1747021-02	air	Sample	11/21/2017	11/22/2017
C-20171121	1747021-03	air	Sample	11/21/2017	11/22/2017
D-20171121	1747021-04	air	Sample	11/21/2017	11/22/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/22/2017	11/24/2017	B173188	1701464

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171121</b> 1747021-01	Hg	air	AR	8.19		2.00	6.00	ng/trap	B173188	1701464
<b>B-20171121</b> 1747021-02	Hg	air	AR	38.0		2.00	6.00	ng/trap	B173188	1701464
<b>C-20171121</b> 1747021-03	Hg	air	AR	51.7		2.00	6.00	ng/trap	B173188	1701464
<b>D-20171121</b> 1747021-04	Hg	air	AR	15.1		2.00	6.00	ng/trap	B173188	1701464





## Accuracy & Precision Summary

Batch: B173188  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173188-BS1	Blank Spike, (1745009) Hg		50.00	54.28	ng/trap	109% 80-120	
B173188-DUP1	Duplicate (1747013-03) Hg	167.1		164.4	ng/trap		2% 10
B173188-PS1	Post Spike (1747013-03) Hg	167.1	160.0	335.5	ng/trap	105% 85-115	

## Method Blanks & Reporting Limits

Batch: B173188  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173188-BLK1	0.159	ng/trap
B173188-BLK2	0.166	ng/trap
B173188-BLK3	0.128	ng/trap
B173188-BLK4	0.089	ng/trap
<b>Average:</b>	<b>0.136</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.035</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1747021-01 <b>Sample:</b> A-20171121 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/21/2017 <b>Received:</b> 11/22/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747021
<b>Lab ID:</b> 1747021-02 <b>Sample:</b> B-20171121 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/21/2017 <b>Received:</b> 11/22/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747021
<b>Lab ID:</b> 1747021-03 <b>Sample:</b> C-20171121 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/21/2017 <b>Received:</b> 11/22/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747021
<b>Lab ID:</b> 1747021-04 <b>Sample:</b> D-20171121 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/21/2017 <b>Received:</b> 11/22/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1747021

## Shipping Containers

### Envelope - 1747021

**Received:** November 22, 2017 9:30  
**Tracking No:** 770803835893 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1747021

Received by: Marlene [Signature] For BAL Use only Date: 11/22/17

Work Order ID: \_\_\_\_\_ Time: 9:30

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27 Mailing Address: 401 2nd Ave, S #201  
 Contact: Matthew vander Ane Phone: 206-718-9548 Seattle WA 98104  
 Client Project ID: \_\_\_\_\_ Email: mvanderane@aspectconsulting.com Email Receipt Confirmation? (Yes/No)  
 Samples Collected By: Jennifer Allen jallen@anchoragea.com BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments		
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here
	1	A-20171121	11/21/2017	0832	Air	1	1	1	X						
	2	B-20171121	↓	0844	↓	1	1	1	X						
	3	C-20171121	↓	0851	↓	1	1	1	X						
	4	D-20171121	↓	0858	↓	1	1	1	X						
	5														
	6														
	7														
	8														
	9														
	10														
	Trip Blank														

Relinquished By: <u>JA</u>	Date: <u>11/21/2017</u>	Time: <u>1300</u>	Relinquished By: _____	Date: _____	Time: _____
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____		



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 08, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 27, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171122	1748005-01	air	Sample	11/22/2017	11/27/2017
B-20171122	1748005-02	air	Sample	11/22/2017	11/27/2017
C-20171122	1748005-03	air	Sample	11/22/2017	11/27/2017
D-20171122	1748005-04	air	Sample	11/22/2017	11/27/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/29/2017	11/30/2017	B173250	1701496

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171122</b> 1748005-01	Hg	air	AR	14.4		2.00	6.00	ng/trap	B173250	1701496
<b>B-20171122</b> 1748005-02	Hg	air	AR	26.8		2.00	6.00	ng/trap	B173250	1701496
<b>C-20171122</b> 1748005-03	Hg	air	AR	33.3		2.00	6.00	ng/trap	B173250	1701496
<b>D-20171122</b> 1748005-04	Hg	air	AR	25.1		2.00	6.00	ng/trap	B173250	1701496



## Accuracy & Precision Summary

Batch: B173250  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173250-BS1	Blank Spike, (1745009) Hg		50.00	48.97	ng/trap	98% 80-120	
B173250-DUP1	Duplicate (1748021-03) Hg	59.95		62.58	ng/trap		4% 10
B173250-PS1	Post Spike (1748021-03) Hg	59.95	300.0	364.8	ng/trap	102% 85-115	

## Method Blanks & Reporting Limits

Batch: B173250  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173250-BLK1	0.119	ng/trap
B173250-BLK2	0.222	ng/trap
B173250-BLK3	0.157	ng/trap
B173250-BLK4	0.230	ng/trap
<b>Average:</b>	<b>0.182</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.053</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1748005-01 <b>Sample:</b> A-20171122 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/22/2017 <b>Received:</b> 11/27/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1748005
<b>Lab ID:</b> 1748005-02 <b>Sample:</b> B-20171122 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/22/2017 <b>Received:</b> 11/27/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1748005
<b>Lab ID:</b> 1748005-03 <b>Sample:</b> C-20171122 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/22/2017 <b>Received:</b> 11/27/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1748005
<b>Lab ID:</b> 1748005-04 <b>Sample:</b> D-20171122 <b>Des Container</b> A IC Trap	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/22/2017 <b>Received:</b> 11/27/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1748005

## Shipping Containers

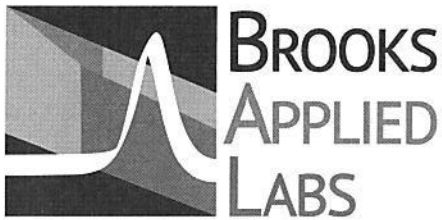
### Envelope - 1748005

**Received:** November 27, 2017 13:30  
**Tracking No:** 770813878235 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes





# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1748005

Received by: [Signature] For BAL use only Date: 11/27/17

Work Order ID: \_\_\_\_\_ Time: 13:30

Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-21

Contact: Matthew von der Aue Phone: 206-718-9548

Client Project ID: \_\_\_\_\_ Email: m.vonderaue@aspectconsulting.com

Samples Collected By: Jennifer Allen jallen@amborgear.com

Mailing Address: 4th 2nd Ave S #201  
Seattle WA 98104

Email Receipt Confirmation? (Yes/No)

BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments		
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Sample ID														Specify Here
	1	A-20171122	11/22/2017	0749	Air	1	Y	Y	X	X					
	2	B-20171122		0754		1			X	X					
	3	C-20171122		0802		1			X	X					
	4	D-20171122		0806		1			X	X					
	5														
	6														
	7														
	8														
	9														
	10														
	Trip Blank														

Relinquished By: [Signature] Date: 11/22/2017 Time: 12:00PM Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 08, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the four (4) iodated carbon (IC) trap samples received by Brooks Applied Labs (BAL) on November 29, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
A-20171128	1748021-01	Air	Sample	11/28/2017	11/29/2017
B-20171128	1748021-02	Air	Sample	11/28/2017	11/29/2017
C-20171128	1748021-03	Air	Sample	11/28/2017	11/29/2017
D-20171128	1748021-04	Air	Sample	11/28/2017	11/29/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/29/2017	11/30/2017	B173250	1701496

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>A-20171128</b> 1748021-01	Hg	Air	AR	6.41		2.00	6.00	ng/trap	B173250	1701496
<b>B-20171128</b> 1748021-02	Hg	Air	AR	9.07		2.00	6.00	ng/trap	B173250	1701496
<b>C-20171128</b> 1748021-03	Hg	Air	AR	60.0		2.00	6.00	ng/trap	B173250	1701496
<b>D-20171128</b> 1748021-04	Hg	Air	AR	6.98		2.00	6.00	ng/trap	B173250	1701496



## Accuracy & Precision Summary

Batch: B173250  
 Lab Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173250-BS1	Blank Spike, (1745009) Hg		50.00	48.97	ng/trap	98% 80-120	
B173250-DUP1	Duplicate (1748021-03) Hg	59.95		62.58	ng/trap		4% 10
B173250-PS1	Post Spike (1748021-03) Hg	59.95	300.0	364.8	ng/trap	102% 85-115	

## Method Blanks & Reporting Limits

Batch: B173250  
 Matrix: IC Trap /per  
 Method: EPA 324/1631 Manual  
 Analyte: Hg

Sample	Result	Units
B173250-BLK1	0.119	ng/trap
B173250-BLK2	0.222	ng/trap
B173250-BLK3	0.157	ng/trap
B173250-BLK4	0.230	ng/trap
<b>Average:</b>	<b>0.182</b>	
<b>Limit:</b>	<b>4.000</b>	
<b>Standard Deviation:</b>	<b>0.053</b>	<b>MDL: 2.00</b>
	<b>Limit: 1.333</b>	<b>MRL: 6.00</b>



## Sample Containers

<b>Lab ID:</b> 1748021-01 <b>Sample:</b> A-20171128 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/28/2017 <b>Received:</b> 11/29/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1748021
<b>Lab ID:</b> 1748021-02 <b>Sample:</b> B-20171128 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/28/2017 <b>Received:</b> 11/29/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1748021
<b>Lab ID:</b> 1748021-03 <b>Sample:</b> C-20171128 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/28/2017 <b>Received:</b> 11/29/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1748021
<b>Lab ID:</b> 1748021-04 <b>Sample:</b> D-20171128 <b>Des Container</b> A IC Trap	<b>Size</b> n/a	<b>Lot</b> n/a	<b>Report Matrix:</b> Air <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 11/28/2017 <b>Received:</b> 11/29/2017 <b>pH</b> n/a <b>Ship. Cont.</b> Envelope - 1748021

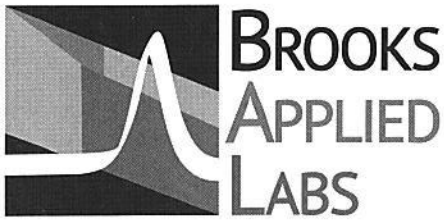
## Shipping Containers

### Envelope - 1748021

**Received:** November 29, 2017 10:15  
**Tracking No:** 770848307759 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** Envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Ambient

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



# Chain-of-Custody Form

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

BAL REPORT 1748021

Received by: Hai Hoferman For BAL use only Date: 11/29/17  
 Work Order ID: \_\_\_\_\_ Time: 10:15  
 Project ID: \_\_\_\_\_

Client: Aspect Consulting PO Number: 070188-27 Mailing Address: 401 2nd Ave, S#201  
 Contact: Matthew Vander Ane Phone: 106-718-9548 Seattle WA 98104  
 Client Project ID: \_\_\_\_\_ Email: munderahe@aspectconsulting.com Email Receipt Confirmation? (Yes/No)  
 Samples Collected By: Jennifer Allen jalbu@auclion.com BAL PM: \_\_\_\_\_

Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments			
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO <sub>3</sub> /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)	Other (specify)	
<input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input checked="" type="checkbox"/> 5* <input type="checkbox"/> Other _____ *Surcharges may apply to expedited TATs	Sample ID														Specify Here	
	1	A-20171128	11/28/2017	0836	Air	1	1	1	X							
	2	B-20171128		0839		1	1	1	X							
	3	C-20171128		0841		1	1	1	X							
	4	D-20171128		0845		1	1	1	X							
	5															
	6															
	7															
	8															
	9															
	10															
	Trip Blank															

Relinquished By: JA Date: 11/28 Time: 12:00 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Total Number of Packages: \_\_\_\_\_

## **APPENDIX E**

### **Laboratory Report, Vapor-Phase Carbon**





Burlington, WA *Corporate Laboratory (a)*  
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400  
 Bellingham, WA *Microbiology (b)*  
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*  
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802  
 Corvallis, OR *Microbiology/Chemistry (d)*  
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946  
 Bend, OR *Microbiology (e)*  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

# Data Report

Client Name: Engineering/Remediaiton Resources Group, Inc.  
 15333 NE 90th St  
 Redmond, WA 98052

Reference Number: **17-35203**  
 Project: **POB Mercury**

Report Date: 12/6/17

Date Received: 12/4/17

Approved by: anp

Authorized by:

Lawrence J Henderson, PhD  
 Director of Laboratories, Vice President

Sample Description: CV-2 - POB							Sample Date: 12/4/17 3:00 pm					
Lab Number: 75842			Sample Comment:				Collected By: Spencer Slominski					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7439-97-6	MERCURY	2.484	0.0833		mg/Kg	10.0	7471A	a	12/5/17	RHF	7471A_171205	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



**SAMPLE INDEPENDENT  
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **17-35203**

Report Date: 12/06/17

Batch	Analyte	Result	True		Method	% Recovery	Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
7471A_171205	0 MERCURY	0.00205	0.00200	mg/L	7471A	103	85-115		CAL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT  
QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: **17-35203**

Report Date: 12/06/17

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
7471A_171205	0 MERCURY	0.00200	0.00200	mg/L	7471A	100	85-115			LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-35203**

Report Date: 12/06/17

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
7471A_171205	0 MERCURY	ND		mg/L	7471A	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT  
 QUALITY CONTROL REPORT**  
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
<b>Duplicate</b>											
<b>7471A_171205</b>											
	75842	MERCURY	2.484	0.654		mg/Kg	116.6	0-50	INH	DUP	
<b>TS_171205</b>											
	75780	TOTAL SOLIDS FOR CALCULATION	32.04	30.67		%	4.4	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
<b>Laboratory Fortified Matrix (MS)</b>															
<b>7471A_171205</b>															
	75842	MERCURY	2.484	4.170	0.373	0.0847	mg/Kg	1,991	-2,492	70-130	1,786.8	0-20	IS	LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

## Qualifier Definitions

Reference Number: 17-35203

Report Date: 12/06/17

Qualifier	Definition
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

# CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



Report To: Spencer Slominski  
 Address: 15333 NE 90th Street  
 City: Redmond State: WA Zip: \_\_\_\_\_  
 Attn: Spencer Slominski  
 Phone: 415-710-2846 P.O.#: \_\_\_\_\_  
 Report Email: Spencer.Slominski@errg.com Card: VISA MIC Expires: \_\_\_\_\_  
 Project Name: PDB Mercury Card#: \_\_\_\_\_

### CHECK REGULATORY PROGRAM

- Safe Drinking Water Act
- Clean Water Act
- RCRA / CERCLA
- Other

Main Lab (800-755-9295)  
 1620 South Walnut St. Burlington, WA 98233  
 Microbiology (888-725-1212)



ENGINEERING/REMEDICATION  
 RESOURCES GROUP, INC.

15333 NE 90th Street  
 Redmond, WA 98052

www.errg.com

Spencer Slominski, P.E.  
 Regional Operations Manager  
 Main: 425.658.5026  
 Fax: 425.658.5370  
 Direct: 425.658.5369  
 Cell: 415.710.2846  
 Email: spencer.slominski@errg.com

### Analysis Request

- Turn Around Time Required
- Standard
  - Half-Time (50% Surcharge)
  - Quickest (100% Surcharge) Phone Call Req.
  - Emergency (Phone Call Required)

**INSTRUCTIONS "PLEASE READ"**

- Use one line per sample location.
- Be specific in test requests.
- List each metal individually.
- Check off analysis to be performed for each sample location.
- Enter number of containers.

Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	Number	Special Instruction/ Conditions on Receipt
1	POB	0	Comp	12/14/17	15:00		
2							
3							
4							
5							
6							
7							
8							
9							
10							

3 DAY RUSH

Sampled By: Spencer Slominski Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Sample Receipt requested (Must include FAX or Email)

\* Sample Matrix  
 W - Water SW - Surface Water WW - Wastewater OL - Oil  
 DW - Drinking Water GW - Ground Water S - Soil Other Carbon

- Custody Seals Intact Yes  No  N/A
- Sample Temp 18.5 C Satisfactory Yes  No  N/A
- Evidence Of Cooling Yes  No  N/A
- Samples Received Intact Yes  No  N/A
- Chain Of Custody & Labels Agree Yes  No  N/A

Relinquished By	Date	Time	Received By	Date	Time
<u>[Signature]</u>	12/17/17	16:55	<u>BP</u>	12/17/17	16:46

W1



## **APPENDIX F**

### **Summary Table and Laboratory Report, Wipe Samples**

### Table F-1 - Summary of Wipe Sample Results

Project No. 070188, Mercury Soil Treatment and Disposal Project, Bellingham, Washington

Equipment Sampled	Laboratory Sample ID	Hg Mass on Wipe (mg)
F750 Truck	1750009-01	0.00437
GTH844 Forklift	1750009-02	0.0334
135D Excavator	1750009-03	0.00365
KUBOTA95 Skid-Steer	1750009-05	0.132
Field Blank	1750009-04	0.00006 J

Hg mercury  
J estimated value  
mg milligrams

Notes:

1) Wipe samples were collected on 12/7/2017 from a 10 cm by 10 cm area of the indicated equipment.



18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

December 14, 2017

Aspect Consulting LLC  
ATTN: Matthew Von der Ahe  
179 Madrone Lane N  
Bainbridge Island, WA 98110  
mvonderahe@aspectconsulting.com

RE: Project ACO-SE1701

Dear Matthew Von der Ahe,

This report contains results for the five (5) wipe samples received by Brooks Applied Labs (BAL) on December 11, 2017. The samples were logged-in for mercury (Hg) analyses according to the chain-of-custody form. The samples were received, prepared, analyzed, and stored according to BAL SOPs and EPA methodology.

The analysis of BLK4 produced a result that was determined to be a Grubb's Outlier (10.4). This blank result was removed and not used in any calculations. Any sample detects greater than the MRL and within 10x the concentration of the blank were qualified **J-1** for potential high bias.

The results were method blank corrected as described in the calculations section of the relevant BAL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data was reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in black ink that reads "Lydia Greaves".

Lydia Greaves  
Client Services Manager  
Lydia@brooksapplied.com

A handwritten signature in black ink that reads "Betty Vordahl".

Betty Vordahl  
Project Coordinator  
betty@brooksapplied.com



## Report Information

### Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	standard reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
F750	1750009-01	Wipe	Sample	12/07/2017	12/11/2017
GTH844	1750009-02	Wipe	Sample	12/07/2017	12/11/2017
135D	1750009-03	Wipe	Sample	12/07/2017	12/11/2017
FB	1750009-04	Wipe	Sample	12/07/2017	12/11/2017
KUBOTA95	1750009-05	Wipe	Sample	12/07/2017	12/11/2017

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	Other	EPA 1631 Appendix	12/11/2017	12/12/2017	B173361	1701548



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>F750</b>										
1750009-01	Hg	Wipe	AR	4370		20.0	60.0	ng/unit	B173361	1701548
<b>GTH844</b>										
1750009-02	Hg	Wipe	AR	33400		500	1500	ng/unit	B173361	1701548
<b>135D</b>										
1750009-03	Hg	Wipe	AR	3650		20.0	60.0	ng/unit	B173361	1701548
<b>FB</b>										
1750009-04	Hg	Wipe	AR	63.7	J-1	0.50	1.50	ng/unit	B173361	1701548
<b>KUBOTA95</b>										
1750009-05	Hg	Wipe	AR	132000		2000	6000	ng/unit	B173361	1701548



## Accuracy & Precision Summary

Batch: B173361  
 Lab Matrix: Other  
 Method: EPA 1631 Appendix

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173361-BS1	Blank Spike, (1745009) Hg		50.00	49.71	ng/unit	99% 70-130	
B173361-SRM1	Standard Reference Material (1529016, MESS-4) Hg		80.00	75.14	ng/unit	94% 75-125	
B173361-DUP2	Duplicate (1750009-05) Hg	132500		133100	ng/unit		0.5% 30
B173361-PS2	Post Spike (1750009-05) Hg	132500	240000	367700	ng/unit	98% 77-123	

## Method Blanks & Reporting Limits

Batch: B173361  
 Matrix: Other  
 Method: EPA 1631 Appendix  
 Analyte: Hg

Sample	Result	Units	
B173361-BLK1	0.03	ng/unit	
B173361-BLK2	0.01	ng/unit	
B173361-BLK3	0.02	ng/unit	
<b>Average:</b>	0.02		<b>MDL:</b> 0.50
<b>Limit:</b>	1.00		<b>MRL:</b> 1.50



## Sample Containers

<b>Lab ID:</b> 1750009-01 <b>Sample:</b> F750 <b>Des Container</b> A Client-Provided	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Wipe <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 12/07/2017 <b>Received:</b> 12/11/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1750009
<b>Lab ID:</b> 1750009-02 <b>Sample:</b> GTH844 <b>Des Container</b> A Client-Provided	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Wipe <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 12/07/2017 <b>Received:</b> 12/11/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1750009
<b>Lab ID:</b> 1750009-03 <b>Sample:</b> 135D <b>Des Container</b> A Client-Provided	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Wipe <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 12/07/2017 <b>Received:</b> 12/11/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1750009
<b>Lab ID:</b> 1750009-04 <b>Sample:</b> FB <b>Des Container</b> A Client-Provided	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Wipe <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 12/07/2017 <b>Received:</b> 12/11/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1750009
<b>Lab ID:</b> 1750009-05 <b>Sample:</b> KUBOTA95 <b>Des Container</b> A Client-Provided	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Wipe <b>Sample Type:</b> Sample <b>Preservation</b> none	<b>P-Lot</b> n/a	<b>Collected:</b> 12/07/2017 <b>Received:</b> 12/11/2017 <b>pH</b> <b>Ship. Cont.</b> Envelope - 1750009



**Project ID:** ACO-SE1701  
**PM:** Lydia Greaves



BAL REPORT 1750009  
**Client PM:** Matthew Von der Ahe

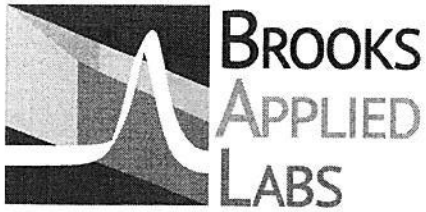
## Shipping Containers

### Envelope - 1750009

**Received:** December 11, 2017 13:36  
**Tracking No:** 770946696483 via FedEx  
**Coolant Type:** None  
**Temperature:** ambient

**Description:** envelope  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** ambient

**Custody seals present?** N  
**Custody seals intact?** N  
**COC present?** Ye



# Chain-of-Custody Form

BAL REPORT 1750009

Ship samples to:  
18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

Received by: Madeline [Signature] For BAL use only Date: 12/11/17  
Work Order ID: \_\_\_\_\_ Time: 9:30  
Project ID: \_\_\_\_\_

Client: ASPECT CONSULTING, LLC  
Contact: MATTHEW VON DER AHE  
Client Project ID: 070188-27  
Samples Collected By: MV

PO Number: 070188-27  
Phone: 206-718-9548  
Email: mvonderahe@aspectconsulting.com

Mailing Address: ACCOUNTS PAYABLE  
350 MADISON AVE N  
RAINIERIDGE ISLAND WA 98140  
Email Receipt Confirmation? Yes

BAL PM:

Requested TAT (business days) <input type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input checked="" type="checkbox"/> Other <u>RUSH</u>	Collection		Client Sample Info				BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered?	Preservation Type	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify)	Se Species (specify)	Filtration		Other (specify here)
<small>*Surcharges may apply to expedited TATs</small>														
Sample ID														Specify Here
1	F750	7DEC	16:00	Other (Specify	1		✓							WIPE SAMPLE
2	GTH844	7DEC	16:00	Other (Specify	1		✓							WIPE SAMPLE
3	135D	7DEC	16:00	Other (Specify	1		✓							WIPE SAMPLE
4	FB	7DEC	16:00	Other (Specify	1		✓							WIPE SAMPLE
5	KUBOTA95	7DEC	16:00	Other (Specify	1		✓							WIPE SAMPLE
6														
7														
8														
9														
10														
Trip Blank (specify)														
Relinquished By: _____		Date: _____	Time: _____		Relinquished By: _____				Date: _____	Time: _____				
Received By: _____		Date: _____	Time: _____		Total Number of Packages: _____									

Page 1 of 1

List Hazardous Contaminants: \_\_\_\_\_

samples@brooksupplied.com | brooksupplied.com

**Print**

## **APPENDIX G**

### **Summary Table and Hazardous Waste Manifests**

## Table G-1 - Hazardous Waste Manifest Summary

Project No. 070188, Mercury Soil Treatment and Disposal Project, Bellingham, Washington

### Successfully Treated Soil (WT02 Waste)

Manifest Tracking No.	Load Date	Waste Weight (tons)	
		This Load	Cumulative
18112575 JJK	11/17/17	23.99	24.0
18112576 JJK	11/17/17	24.45	48.4
18112577 JJK	11/17/17	22.32	70.8
18112578 JJK	11/28/17	19.00	89.8
18112579 JJK	11/27/17	18.60	108.4
18112580 JJK	11/27/17	18.29	126.7
18112581 JJK	11/27/17	20.03	146.7
18112582 JJK	11/27/17	18.80	165.5
18112583 JJK	11/28/17	18.83	184.3
18112584 JJK	11/28/17	18.45	202.8
18112585 JJK	11/28/17	19.14	221.9
18112587 JJK	11/30/17	19.95	241.9
18112588 JJK	11/29/17	20.76	262.6
18112589 JJK	12/01/17	20.20	282.8
18112590 JJK	11/29/17	16.97	299.8
18112591 JJK	12/01/17	22.48	322.3
18112592 JJK	11/29/17	20.23	342.5
18112593 JJK	11/29/17	18.54	361.0
18112594 JJK	11/29/17	22.19	383.2
18112595 JJK	11/29/17	17.42	400.6
18112597 JJK	11/28/17	17.52	418.2
18112600 JJK	11/13/17	24.08	442.2
18112601 JJK	11/13/17	24.16	466.4
18112833 JJK	12/06/17	17.05	483.5
18112834 JJK	12/06/17	17.13	500.6
18112835 JJK	12/05/17	18.46	519.0
18112836 JJK	12/05/17	15.88	534.9
18112837 JJK	12/05/17	18.27	553.2
18112838 JJK	12/06/17	18.37	571.6
18112839 JJK	12/06/17	18.16	589.7
18112840 JJK	12/06/17	17.00	606.7
18112841 JJK	12/06/17	20.08	626.8
18112843 JJK	12/01/17	24.12	650.9
18112844 JJK	12/04/17	18.13	669.1
18112845 JJK	12/03/17	16.19	685.2
18112846 JJK	12/04/17	17.80	703.0

### Unsuccessfully Treated (Lot 4) Soil (Macroencapsulated D009 Waste)

Manifest Tracking No.	Load Date	Waste Weight (tons)	
		This Load	Cumulative
18112848 JJK	12/04/17	17.85	17.85
18112854 JJK	12/04/17	15.46	33.31

### Oversize Debris (Macroencapsulated D009 Waste)

Manifest Tracking No.	Load Date	Waste Weight (tons)	
		This Load	Cumulative
18112849 JJK	12/02/17	30.39	30.39
18112850 JJK	11/30/17	31.23	61.62
18112851 JJK	12/01/17	32.59	94.21
18112852 JJK	11/30/17	29.56	123.77
18112853 JJK	11/30/17	28.69	152.46
18112855 JJK	12/04/17	28.43	180.89

458114 858114

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA000R252297	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112575 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 638-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (503) 454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	494002	X107	WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR320415. TREATED REMEDIATION WASTE (SOIL) 47980P							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Matthew Wondel/Ahe For the Port of Bellingham				Signature [Signature]		Month Day Year 11 17 17	
16. 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): _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Tanner Bratby Signature: [Signature] Month Day Year: 11 17 17 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____							
18. Discrepancy 18a. 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: _____							
18b. Alternate Facility (or Generator) Facility's Phone: _____				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: _____ Signature: _____ Month Day Year: 11 17 17							

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

458115

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009262297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112576 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM, WA 98225 (206)638-5830		Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name R TRANSPORT		U.S. EPA ID Number WAH000028335					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address (541)454-2643 CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709		U.S. EPA ID Number ORD089452353					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	No.	Type				
		1	DT	50000	P	X007 WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR328415: TREATED REMEDIATION WASTE (SOIL) 48900P							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name For the Port of Bellingham Matthew VanderAke		Signature <i>[Signature]</i>			Month	Day	Year
					11	17	17
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Justin Brown		Signature <i>[Signature]</i>			Month	Day	Year
					11	17	17
Transporter 2 Printed/Typed Name		Signature			Month	Day	Year
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
H32							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Justin Brown		Signature <i>[Signature]</i>			Month	Day	Year
					11	17	17

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WAD009252297</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(800)424-0300</b>	4. Manifest/Tracking Number <b>018112577 JJK</b>		
5. Generator's Name and Mailing Address: <b>FORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225</b>				Generator's Site Address (if different than mailing address)			
Generator's Phone: <b>(206)832-0830</b>							
6. Transporter 1 Company Name <b>R TRANSPORT</b>				U.S. EPA ID Number <b>WAH000028338</b>			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address <b>CHEMICAL WASTE MANAGEMENT, INC. 17620 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709</b>				U.S. EPA ID Number <b>ORD089452353</b>			
Facility's Phone: <b>(541)454-2843</b>							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	<b>MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED) REMEDIATION WASTE (SOIL)</b>	<b>1</b>	<b>DT</b>	<b>44640 P</b>	<b>X 007</b>	<b>V/T02</b>	
14. Special Handling Instructions and Additional Information <b>PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL.)</b>							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <b>For the Port of Bellingham</b>				Signature <i>[Signature]</i>		Month Day Year <b>11 17 17</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <b>BRANDON LOYD</b>				Signature <i>[Signature]</i>		Month Day Year <b>11 17 17</b>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <b>H132</b>		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year <b>11 17 17</b>	

458282

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112578 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 (206)838-5830		Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name TRANSPORT		U.S. EPA ID Number WAH000028338					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 (541)454-2643		U.S. EPA ID Number ORD089452353			Facility's Phone:		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	4500	X007	WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR320415: TREATED REMEDIATION WASTE (SOIL) 38000P.							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard		Signature 		Month	Day	Year	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Erica Gibson		Signature 		Month	Day	Year	
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Changed By Driver DO 11/28/17 Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
1.	H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Duke		Signature 		Month	Day	Year	
				11	28	17	

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112579 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-6830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	45.000		X007	WT02
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 37/200PW							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kyle Schrader				Signature 		Month Day Year 11 27 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Dawn Dunlap				Signature 		Month Day Year 11 27 17	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

# R-51 458245

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112580 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	36500 36500	X007	WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 36500 PM							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 27 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name BRANDON LLOYD				Signature 		Month Day Year 11 27 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Checked By:				DD 11-27-17		Manifest Reference Number:	
18b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name 				Signature 		Month Day Year 11 27 17	

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY

# R-57

458244

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA0009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112581 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-0830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338		R-57		
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17628 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		No.	Type			
		2.		1	DT	22	T	X007, W102
		3.						
		4.						
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 20.03T								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 27 17		
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Nick Watkins			Signature 		Month Day Year 11 27 17		
	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Steven Donly				Signature 		Month Day Year 11 27 17		

# 12-71

458242

CWMII

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112582 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-8709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD099452353				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))			1	DOT	26.0	T	X007 WTD2
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 18.80T								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 29 17		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Mark Ehelw				Signature 		Month Day Year 11 27 17		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. 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:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Drew Dunlap				Signature 		Month Day Year 11 27 17		

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY

458292

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-8300	4. Manifest Tracking Number <b>018112583 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000029338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD090452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	45000 BL	P	X107	V/T02
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 37660P BL							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 28 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name BRANDON LLOYD				Signature 		Month Day Year 11 28 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Changed By Driver DD 11-28-17 Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H13Z		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dink				Signature 		Month Day Year 11 29 17	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

458298

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (500)424-9300	4. Manifest Tracking Number <b>018112584 JJK</b>		
5. Generator's Name and Mailing Address 1501 ROEDER AVENUE BELLINGHAM WA 98225 (206)838-5830		Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name K TRANSPORT		U.S. EPA ID Number WAH000028338					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address (541)454-2643 CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-8709		U.S. EPA ID Number ORD089452353					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DOT	21.0	T	X007 WT02
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information PROFILE OR328415: TREATED REMEDIATION WASTE (SOIL) 18.95T							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offorer's Printed/Typed Name Ben Howard		Signature 		Month Day Year 11 28 17			
INT'L	16. 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	17. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year		
	Transporter 1 Printed/Typed Name Mark Ehler				11 28 17		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
	18. Discrepancy		Manifest Reference Number:				
	18a. 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						
	18b. Alternate Facility (or Generator)		U.S. EPA ID Number				
	Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)		Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Duke		Signature 		Month Day Year 11 29 17			

#12-57

458284

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112585 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT			R-57		U.S. EPA ID Number WAH000029338		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD090452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	No.	Type				
		1	DT	20	T	007 V-T02	
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 19.12.17							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 28 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Nick Watkins			Signature 		Month Day Year 11 28 17		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Sean Dunlop				Signature 		Month Day Year 11 28 17	

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

#00

458352

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112587 JJK</b>					
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-8830				Generator's Site Address (if different than mailing address)						
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1 DT		40,000/g		X007 W102		
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 39900.P										
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Matthew Wondra Age 3 Bellingham				Signature [Signature]		Month Day Year				
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials				Signature		Month Day Year			
TRANSPORTER	Transporter 1 Printed/Typed Name Kyle Schrader				Signature [Signature]		11 30 17			
	Transporter 2 Printed/Typed Name				Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy									
	18a. 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									
	18b. Alternate Facility (or Generator)									
	18c. Signature of Alternate Facility (or Generator)									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Pat Slider				Signature [Signature]		Month Day Year 11 30 17				



Gibson #1

458353

CV66d1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD000252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112588 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM, WA 98226 (206)838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 (541)454-2643				U.S. EPA ID Number ORD099452353				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))			1 DT		18900	X307	VW02
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) 41520.P								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Matthew vanderAbe For the Port of Bellingham				Signature 		Month Day Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Brian Gibson				Signature 		Month Day Year 11 30 17		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Weight changed by driver								
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Pat Slider				Signature 		Month Day Year 11 30 17		

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

#00

458388

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112589 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1 OT		40,000	X007 W/T02	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) 404008								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Matthew vondeauhe For the Port of Bellingham				Signature 		Month Day Year 12 1 17		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Kyle Schrader			Signature 		Month Day Year 12 1 17		
	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Dawn Dunge				Signature 		Month Day Year 12 1 17		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

#2-71 4583217

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112590 JJK</b>		
5. Generator's Name and Mailing Address 1301 ROEDER AVENUE BELLINGHAM, WA 98225 (206)838-5830		Generator's Site Address (if different than mailing address)					
Generator's Phone:		6. Transporter 1 Company Name TRANSPORT			U.S. EPA ID Number WAH000028338		
		7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address (541)454-2643 CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709		U.S. EPA ID Number ORD080452353					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	No. 1	Type OT	21.	T X007	W/T02	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information PROFILE OR320415: TREATED REMEDIATION WASTE (SOIL) 16.97T							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature <i>Ben Howard</i>		Month Day Year 11 29 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mark E... ..				Signature <i>Mark E...</i>		Month Day Year 11 29 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dimp...				Signature <i>Dawn Dimp...</i>		Month Day Year 11 30 17	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

458393

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD000252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112591 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		MATERIAL NOT REGULATED BY DOT <del>HAZARDOUS SUBSTANCE SOLID WASTE</del> STATE HAZARDOUS MATERIAL (NOT REGULATED BY DOT) (TREATED REMEDIATION WASTE (SOIL)) MB 12-17		1 No. 1 DT		5500	X	MB 12-17 MB 12-17
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information PROFILE 01320415 TREATED Remediation Waste Soil 01320415 TREATED REMEDIATION WASTE (SOIL) 01320415								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name Ben Howard				Signature 		Month	Day	Year
						12	1	17
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Justin Bonni				Signature 		Month	Day
						12	1	17
18. Discrepancy				18a. 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				
				Accepted because there is not solid waste to change profile to 01320415 per waste generator's aspect consulting with 12-1-17 waste is profile is 01320415 per supplier's information aspect MB 12-17				
DESIGNATED FACILITY	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator)				Month		Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Sarah Dulp				Signature 		Month	Day	Year
						12	1	17

#1251

458324

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112592 JJK</b>
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5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 (206)838-6830	Generator's Site Address (if different than mailing address)
---	--

6. Transporter 1 Company Name R TRANSPORT	U.S. EPA ID Number WAH000028338
--	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 541-454-2643	U.S. EPA ID Number ORD089452353
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	40,000		X007	W/T02
2.							
3.							
4.							

14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 40,460P
--

15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name Ben Howard	Signature 	Month Day Year 11 29 17
--	---------------	----------------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials	
Transporter 1 Printed/Typed Name Ben Howard (11040)	Signature 
Transporter 2 Printed/Typed Name	Signature
	Month Day Year 11 29 17

18. Discrepancy	
18a. 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:

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

18c. Signature of Alternate Facility (or Generator)	Month Day Year
---	----------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	
1. HBZ	2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	
Printed/Typed Name Steven Dink	Signature 
	Month Day Year 11 29 17

#R-57

458325

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD0009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112593 JJK</b>		
5. Generator's Name and Mailing Address FORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)638-6830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338		R-57	
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	20	T	X007	WT02
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 18.54T							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature <i>Ben Howard</i>		Month Day Year 11 29 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Nick Watkins				Signature <i>Nick Watkins</i>		Month Day Year 11 29 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H13Z		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dunlop				Signature <i>Dawn Dunlop</i>		Month Day Year 11 30 17	

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY

Gibson #1

458318

CVMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD0008262297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112594 JJK</b>		
5. Generator's Name and Mailing Address PROF. GIBSON (AM) 1801 ROEDER AVENUE BELLINGHAM, WA 98225 (206)838-0630				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 (541)454-2643 Facility's Phone:				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	45.00	R	X007	WT02
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR320415 TREATED REMEDIATION WASTE (SOIL) 44380P							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Brian Gibson				Signature 		Month Day Year 11 29 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. HBZ		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Laurie Dine				Signature 		Month Day Year 11 29 17	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

#00

458317

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112595 JJK</b>				
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)838-5830				Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 9712-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number ORD089452353					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1	DT	38,000	X007	VYD2	
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) 34840P									
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month 		Day 	Year 
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
TRANSPORTER	Transporter 1 Printed/Typed Name Kirk Schrader			Signature 		Month 11		Day 29	Year 17
	Transporter 2 Printed/Typed Name			Signature		Month		Day	Year
DESIGNATED FACILITY	18. Discrepancy								
	18a. 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								
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
	Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)							Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name John Dink				Signature 		Month 11		Day 29	Year 17



#00

458291

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112597 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17620 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	20	T	X007	WT02
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) 17.52 T							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 28 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kyle Schrader				Signature 		Month Day Year 11 28 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H13Z		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Drew Dink				Signature 		Month Day Year 11 28 17	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

#12-62

457967

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>WAD009252297</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(800)424-9300</b>	4. Manifest Tracking Number <b>018112600 JJK</b>				
5. Generator's Name and Mailing Address <b>PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225</b>				Generator's Site Address (if different than mailing address)					
Generator's Phone: <b>(206)838-5830</b>									
6. Transporter 1 Company Name <b>R TRANSPORT</b>				U.S. EPA ID Number <b>WAH000028338</b>					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address <b>CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97112-9709</b>				U.S. EPA ID Number <b>ORD089452353</b>					
Facility's Phone: <b>(541)454-2843</b>									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		<b>MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))</b>		No.	Type			<b>X007 WT02</b>	
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information <b>PROFILE OR 329415 TREATED REMEDIATION WASTE (SOIL)</b> <b>48160P</b>									
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name <b>Ben Howard</b>				Signature <i>[Signature]</i>		Month	Day	Year	
						<b>11</b>	<b>13</b>	<b>2017</b>	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
TRANSPORTER	Transporter 1 Printed/Typed Name <b>Tanner Beattie</b>				Signature <i>[Signature]</i>		Month	Day	Year
							<b>11</b>	<b>13</b>	<b>17</b>
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year	
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	<b>changed</b>								
	18b. Alternate Facility (or Generator)				Manifest Reference Number:				U.S. EPA ID Number
	Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)				Signature		Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. <b>H132</b>		2. <b>P602</b>		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name <b>David Dink</b>				Signature <i>[Signature]</i>		Month	Day	Year	
						<b>11</b>	<b>13</b>	<b>17</b>	

#12-57

457965

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA0009252287	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number <b>018112601 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206)832-4830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338		R-57	
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541)454-2643				U.S. EPA ID Number OR0089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	2T	50,000	P	007	WT02
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 48320P							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 13 2017	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Nick Watkins				Signature 		Month Day Year 11 13 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dwyer				Signature 		Month Day Year 11 13 17	

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

2-61

458530

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 0 7	2. Page 1 of 1	3. Emergency Response Phone 800-424-8300	4. Manifest Tracking Number <b>018112833 JJK</b>			
5. Generator's Name and Mailing Address <b>PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225</b>				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name <b>E TRANSPORT</b>		(200) 836-5830		U.S. EPA ID Number		WA 110 0 0 0 2 6 9 3 8		
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709</b>				U.S. EPA ID Number <b>OR D 0 8 9 4 5 2 3 5 3</b>				
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
				No.	Type			
1.		MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1	DT	17T	X007	WT02
2.								
3.								
4.								
14. Special Handling Instructions and Additional Information <b>1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL)</b>								17.05
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name <b>Ben Howard</b>				Signature 		Month Day Year		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <b>Alan Hensley</b>				Signature 		Month Day Year <b>12 6 17</b>		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. 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:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. <b>H32</b>		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name <b>Shawn Dink</b>				Signature 		Month Day Year <b>12 7 17</b>		

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

T2-72

458531

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA0009252297	2. Page 1 of 1	3. Emergency Response Phone 800-424-0300	4. Manifest Tracking Number <b>018112834 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAHD000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-8709 Facility's Phone: (503) 454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	35800 P	X007	V/F02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL)				34260P			
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature <i>[Signature]</i>		Month Day Year 12 16 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Stone Hershey				Signature <i>[Signature]</i>		Month Day Year 12 16 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. HB2		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name [Signature]				Signature <i>[Signature]</i>		Month Day Year 12 17 17	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

#62

458473

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 0 7	2. Page 1 of 1	3. Emergency Response Phone 800 421 8300	4. Manifest Tracking Number <b>018112835 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 836-5030				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 2 3 8			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	35000	X307	WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 236930P 17							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature <i>[Signature]</i>		Month Day Year 12 5 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tanner Beattie				Signature <i>[Signature]</i>		Month Day Year 12 5 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. HBZ		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name John Dink				Signature <i>[Signature]</i>		Month Day Year 12 5 17	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

2-71 458470

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA 0009252297	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number <b>018112836 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS TREATED REMEDIATION WASTE (SOIL)	1	DT	20. T	X007	WT02	
2							
3							
4							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL)				15.88T			
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offorer's Printed/Typed Name Ben Howard				Signature <i>[Signature]</i>		Month Day Year 12/5/17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mark E... <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 12/5/17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn D... <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 1/7/17	

2-58

458474

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone (800) 424-8300	4. Manifest Tracking Number <b>018112837 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (If different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 9 2 3 8				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1 DT		36540	X307	WT02
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 36540P								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature <i>Ben Howard</i>		Month Day Year 12 5 17		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name KINGSBERRY J				Signature <i>Jimmy</i>		Month Day Year 12 5 17	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Chase By Driver DD. 12-5-17				Manifest Reference Number:			
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Dean Delp				Signature <i>Dean Delp</i>		Month Day Year 12 5 17		



4158524

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112838 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 3 3 8				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	410	X007	WT02	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) <span style="float: right;">36740P</span>								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ben Howal				Signature 		Month Day Year 12 6 17		
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name KINGSBERRY J				Signature 		Month Day Year 12 6 17	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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:							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name John Dwyer				Signature 		Month Day Year 12 17 17		

R-62

458513

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA 0000252207	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number <b>018112839 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5030				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA 000028328				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD089452353				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1	DOT	35000	X307	WT02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. PROFILE OR 3294.15: TREATED REMEDIATION WASTE (SOIL)								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Ben Howard						Signature <i>[Signature]</i>		Month Day Year 12   6   17
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input checked="" type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Tanner Beattie				Signature <i>[Signature]</i>		Month Day Year 12   6   17	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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:							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>		Month Day Year 12   7   17

458518

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D D 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112840 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 3 3 8				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-9708 Facility's Phone: (511) 451-2643				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1 DT		20.	T	X007 WT02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 17.00T								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name Bob Howard				Signature <i>[Signature]</i>		Month Day Year 12   6   17		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Mark Ekelw			Signature <i>[Signature]</i>		Month Day Year 12   6   17		
	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Sara Dink				Signature <i>[Signature]</i>		Month Day Year 12   7   17		

RD 458507

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number <b>018112841 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 2 2 8			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17828 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	36000		X007 WT02
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1. PROFILE OR328415: TREATED REMEDIATION WASTE (SOIL) <span style="float:right">40110P</span>							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name Ben Howard				Signature 		Month Day Year 12   6   17	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name BROWN LLOYD			Signature 		Month Day Year 12   6   17	
	Transporter 2 Printed/Typed Name			Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. 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						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Maria Bartlett				Signature 		Month Day Year 12   4   17	

#1

458404

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 431 8207	4. Manifest Tracking Number 018112843 JJK			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (If different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 3 3 8				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))		1 DOT		42,006	X307	WT02
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR3294 15: TREATED REMEDIATION WASTE (SOIL) 48240P								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Don Howard				Signature 		Month 12	Day 1	Year 17
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Brian Gabsa			Signature 		Month 12	Day 1	Year 17
	Transporter 2 Printed/Typed Name			Signature		Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Sauri Dimp				Signature 		Month 12	Day 1	Year 17

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

458445

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number WAD009252297	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112844 JJK</b>
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5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830		Generator's Site Address (if different than mailing address)	
---	--	--	--

6. Transporter 1 Company Name R TRANSPORT	U.S. EPA ID Number WAH000028338
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643		U.S. EPA ID Number ORD089452353
--	--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	39000	X007 W102	
2.						
3.						
4.						

14. Special Handling Instructions and Additional Information 1. PROFILE OR328415: TREATED REMEDIATION WASTE (SOIL)	36260 P
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15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.				
Generator's/Offoror's Printed/Typed Name Ben Howard	Signature <i>[Signature]</i>	Month 17	Day 4	Year 17

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
---	---

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name FRANK LLOYD	Signature <i>[Signature]</i>	Month 12	Day 9	Year 17
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy					
18a. 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:					

18b. Alternate Facility (or Generator)		U.S. EPA ID Number
Facility's Phone:		
18c. Signature of Alternate Facility (or Generator)		Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				
Printed/Typed Name Maria Bartlett	Signature <i>[Signature]</i>	Month 12	Day 4	Year 17

GENERATOR

INTL TRANSPORTER

DESIGNATED FACILITY

#R-71

458444

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 0 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 424 9309	4. Manifest Tracking Number <b>018112845 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 830-5030				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 2 2 8			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17620 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL))	1	DT	20.0	TX307	WT02	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL)				16.19T			
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 12 3 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mark Emler				Signature 		Month Day Year 12 3 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dwyer				Signature 		Month Day Year 12 4 17	

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number W A D D 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 424-9300	4. Manifest Tracking Number 018112846 JJK			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 3 3 8				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. MATERIAL NOT REGULATED BY DOT, STATE HAZARDOUS TREATED REMEDIATION WASTE (SOIL)		1 DT		36000	X907	WT02
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 35600P								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Ben Howard R Transport				Signature <i>[Signature]</i>		Month Day Year 12 4 17		
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Tanner Beattie				Signature <i>[Signature]</i>		Month Day Year 12 4 17	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a								
Printed/Typed Name Dean Dunlap				Signature <i>[Signature]</i>		Month Day Year 12 4 17		



#R-52

US8451

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	WA D 0 0 0 2 5 2 2 9 7	1		018112848 JJK

5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)	
PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830			

6. Transporter 1 Company Name	U.S. EPA ID Number
R TRANSPORT	WA H 0 0 0 0 2 8 3 3 8
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address	U.S. EPA ID Number
CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643	OR D 0 8 9 4 5 2 3 5 3

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ D009)	001	DT	49000	P D009		
2.							
3.							
4.							

14. Special Handling Instructions and Additional Information
1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 35700P E/R/P= CHEMTREC (#CCN24117)

15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.				
Generator's/Offorer's Printed/Typed Name	Signature	Month	Day	Year
Ben Howard		12	4	17

16. International Shipments	<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter signature (for exports only):			Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Justin Bond		12	4	17
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy					
18a. 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:					

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

18c. Signature of Alternate Facility (or Generator)	Month	Day	Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				
Printed/Typed Name	Signature	Month	Day	Year
		12	5	17

#257

458406

CMMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 0 2 5 2 2 0 7	2. Page 1 of 1	3. Emergency Response Phone 800 424 6300	4. Manifest Tracking Number <b>018112849 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 2 8 2 3 8		R-57		
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2642				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ 0009)		No. 001	Type DT	30.00	D009	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB E/R/P= CHEMTREC (#CCN24117) 3039+								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 12 2 17		
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Nick Watkins			Signature 		Month Day Year 12 2 17		
	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a								
Printed/Typed Name Dawn Jones				Signature 		Month Day Year 12 4 17		

#2-71

458360

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number W A D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 424 0300	4. Manifest Tracking Number <b>018112850 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD089452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ D009)	001	DT	31.0	r	D009	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 31.23T E/R/P= CHEMTREC (#CCN24117)							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature <i>[Signature]</i>		Month Day Year 11 30 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mark Ehlw				Signature <i>[Signature]</i>		Month Day Year 11 30 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dawn Dingo				Signature <i>[Signature]</i>		Month Day Year 11 21 17	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 0 2 5 2 2 0 7	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number <b>018112851 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5030				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 2 8 3 3 0			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ D000)	001	DT	32	0000		
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR 329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB E/R/P= CHEMTREC (#CCN24117) 32-59							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Bon Howard				Signature <i>[Signature]</i>		Month Day Year 12   1   17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Shore Hershey				Signature <i>[Signature]</i>		Month Day Year 12   1   17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dean Dwyer				Signature <i>[Signature]</i>		Month Day Year 12   4   17	

#2-57

458356

OWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number W A D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number <b>018112852 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WAH000028338		R-57	
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2643				U.S. EPA ID Number ORD099452353			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ 0009)	001	DT	30.00	0009		
2							
3							
4							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 29.56T E/R/P= CHEMTREC (#CCN24117)							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 30 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Nick Watkins				Signature 		Month Day Year 11 30 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H122		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature 		Month Day Year 12 2 17	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

#251

488361

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA 0009252207	2. Page 1 of 1	3. Emergency Response Phone (800) 424-0300	4. Manifest Tracking Number <b>018112853 JJK</b>			
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 930-5630				Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA 0000020300				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17620 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number ORD089452353				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III (RQ 0009)		001 OT		6/000	0009	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR320418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 57,380.P E/R/P= CHEMTREC (#CCN24117)								
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature 		Month Day Year 11 30 17		
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name BRUDEN L Corp			Signature 		Month Day Year 11 30 17		
	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy							
	18a. 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							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Pat Slider				Signature 		Month Day Year 12 1 17		

2-57

458450

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number W A D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 424-9300	4. Manifest Tracking Number <b>018112854 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 838-5930				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 3 3 8		R-57	
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97912-9709 Facility's Phone: (541) 454-2843				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ 0009)	001	DT	15.00		0009	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR329418, MERCURY CONTAMINATED DEBRIS, ERG= 171; RQ=1 LB 15.46T E/R/P= CHEMTREC (#CCN24117)							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ben Howard				Signature <i>Ben Howard</i>		Month Day Year 12 4 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Nick Watkins				Signature <i>Nick Watkins</i>		Month Day Year 12 4 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. 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:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Dawn Dunlap				Signature <i>Dawn Dunlap</i>		Month Day Year 12 5 17	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

#12-let

458413

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WA D 0 0 9 2 5 2 2 9 7	2. Page 1 of 1	3. Emergency Response Phone 800 431 9200	4. Manifest Tracking Number <b>018112855 JJK</b>		
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 Generator's Phone: (206) 828 5830				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name R TRANSPORT				U.S. EPA ID Number WA H 0 0 0 0 2 8 2 2 8			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (541) 454 2842				U.S. EPA ID Number O R D 0 8 9 4 5 2 3 5 3			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	1.	UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., III (RQ D008)	001	DT	32T	D008	
	2.						
	3.						
4.							
14. Special Handling Instructions and Additional Information 1. PROFILE OR328418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB E/R/P= CHEMTREC (#CCN24117) 28.43T							
15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ben Howard				Signature <i>B Howard</i>		Month Day Year	
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Alan Hensley				Signature <i>Alan Hensley</i>		Month Day Year 12 1 17
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. 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						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Brian Samp				Signature <i>Brian Samp</i>		Month Day Year 1 14 17	



## **APPENDIX H**

**Certificates of Disposal (in the order of Manifest Tracking No., followed by certificates for non-hazardous waste)**



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/17/17 as described on Shipping Document number 018112575JJK.

Profile Number: OR329415  
CWM Tracking ID: 45811401  
CWM Unit #: 1\*0  
Disposal Date: 11/17/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225308  
12/01/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/17/17 as described on Shipping Document number 018112576JJK.

Profile Number: OR329415  
CWM Tracking ID: 45811501  
CWM Unit #: 1\*0  
Disposal Date: 11/17/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225309  
12/01/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/20/17 as described on Shipping Document number 018112577JJK.

Profile Number: OR329415  
CWM Tracking ID: 45814701  
CWM Unit #: 1\*0  
Disposal Date: 11/20/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads 'Becky Sumner'. The signature is written in black ink and is positioned above a horizontal line.

CWMNW RECORDS DEPARTMENT  
Certificate # 225325  
12/01/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/28/17 as described on Shipping Document number 018112578JJK.

Profile Number: OR329415  
CWM Tracking ID: 45828201  
CWM Unit #: 1\*0  
Disposal Date: 11/28/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

*Becky Sumner*

CWMNW RECORDS DEPARTMENT  
Certificate # 225403  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/27/17 as described on Shipping Document number 018112579JJK.

Profile Number: OR329415  
CWM Tracking ID: 45824601  
CWM Unit #: 1\*0  
Disposal Date: 11/27/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225394  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/27/17 as described on Shipping Document number 018112580JJK.

Profile Number: OR329415  
CWM Tracking ID: 45824501  
CWM Unit #: 1\*0  
Disposal Date: 11/27/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225393  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/27/17 as described on Shipping Document number 018112581JJK.

Profile Number: OR329415  
CWM Tracking ID: 45824401  
CWM Unit #: 1\*0  
Disposal Date: 11/27/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225392  
12/04/17





CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/27/17 as described on Shipping Document number 018112582JJK.

Profile Number: OR329415  
CWM Tracking ID: 45824201  
CWM Unit #: 1\*0  
Disposal Date: 11/27/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225390  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/28/17 as described on Shipping Document number 018112583JJK.

Profile Number: OR329415  
CWM Tracking ID: 45829201  
CWM Unit #: 1\*0  
Disposal Date: 11/28/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225408  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/29/17 as described on Shipping Document number 018112584JJK.

Profile Number: OR329415  
CWM Tracking ID: 45829801  
CWM Unit #: 1\*0  
Disposal Date: 11/29/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225487  
12/06/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/28/17 as described on Shipping Document number 018112585JJK.

Profile Number: OR329415  
CWM Tracking ID: 45828401  
CWM Unit #: 1\*0  
Disposal Date: 11/28/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225405  
12/04/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/30/17 as described on Shipping Document number 018112587JJK.

Profile Number: OR329415  
CWM Tracking ID: 45835201  
CWM Unit #: 1\*0  
Disposal Date: 11/30/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

\_\_\_\_\_

CWMNW RECORDS DEPARTMENT  
Certificate # 225488  
12/06/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/30/17 as described on Shipping Document number 018112588JJK.

Profile Number: OR329415  
CWM Tracking ID: 45835301  
CWM Unit #: 1\*0  
Disposal Date: 11/30/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Summer

CWMNW RECORDS DEPARTMENT  
Certificate # 225489  
12/06/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112589JJK.

Profile Number: OR329415  
CWM Tracking ID: 45838801  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225767  
12/15/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/30/17 as described on Shipping Document number 018112590JJK.

Profile Number: OR329415  
CWM Tracking ID: 45832701

Process	CWM Unit	Xfer Date	Site Location	Gen #
D80 LANDFILL	1*0	11/30/17	LANDFILL 14	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



CWMNW RECORDS DEPARTMENT  
Certificate # 227532  
02/09/18





CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112591JJK.

Profile Number: OR329415  
CWM Tracking ID: 45839301  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225768  
12/15/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/29/17 as described on Shipping Document number 018112592JJK.

Profile Number: OR329415  
CWM Tracking ID: 45832401

Process	CWM Unit	Xfer Date	Site Location	Gen #
D80 LANDFILL	1*0	11/29/17	LANDFILL 14	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

CWMNW RECORDS DEPARTMENT  
Certificate # 227530  
02/09/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/30/17 as described on Shipping Document number 018112593JJK.

Profile Number: OR329415  
CWM Tracking ID: 45832501

Process	CWM Unit	Xfer Date	Site Location	Gen #
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D80 LANDFILL	1*0	11/30/17	LANDFILL 14	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



CWMNW RECORDS DEPARTMENT  
Certificate # 227531  
02/09/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/29/17 as described on Shipping Document number 018112594JJK.

Profile Number: OR329415  
CWM Tracking ID: 45831801

Process	CWM Unit	Xfer Date	Site Location	Gen #
D80 LANDFILL	1*0	11/29/17	LANDFILL 14	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

*Datta Brandt*

CWMNW RECORDS DEPARTMENT  
Certificate # 227529  
02/09/18



CWM OF THE NORTHWEST  
 Federal EPA ID: ORD089452353  
 17629 CEDAR SPRINGS LANE  
 ARLINGTON, OR 97812

PORT OF BELLINGHAM  
 ATTN: MANIFEST SECTION  
 WAD009252297  
 1801 ROEDER AVENUE  
 BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
 -----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/29/17 as described on Shipping Document number 018112595JJK.

Profile Number: OR329415  
 CWM Tracking ID: 45831701

Process	CWM Unit	Xfer Date	Site Location	Gen #
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D80 LANDFILL	1*0	11/29/17	LANDFILL 14	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

*Danni Brandt*

CWMNW RECORDS DEPARTMENT  
 Certificate # 227527  
 02/09/18

RECEIVED JAN 02 2013



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/28/17 as described on Shipping Document number 018112597JJK.

Profile Number: OR329415  
CWM Tracking ID: 45829101  
CWM Unit #: 1\*0  
Disposal Date: 11/28/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225486  
12/06/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/13/17 as described on Shipping Document number 018112600JJK.

Profile Number: OR329415  
CWM Tracking ID: 45796701  
CWM Unit #: 1\*0  
Disposal Date: 11/13/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225270  
12/01/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 11/13/17 as described on Shipping Document number 018112601JJK.

Profile Number: OR329415  
CWM Tracking ID: 45796501  
CWM Unit #: 1\*0  
Disposal Date: 11/13/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225269  
12/01/17





CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/07/17 as described on Shipping Document number 018112833JJK.

Profile Number: OR329415  
CWM Tracking ID: 45853001  
CWM Unit #: 1\*0  
Disposal Date: 12/07/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225938  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/07/17 as described on Shipping Document number 018112834JJK.

Profile Number: OR329415  
CWM Tracking ID: 45853101  
CWM Unit #: 1\*0  
Disposal Date: 12/07/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225939  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/05/17 as described on Shipping Document number 018112835JJK.

Profile Number: OR329415  
CWM Tracking ID: 45847301  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



CWMNW RECORDS DEPARTMENT  
Certificate # 225917  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/05/17 as described on Shipping Document number 018112836JJK.

Profile Number: OR329415  
CWM Tracking ID: 45847001  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225916  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/05/17 as described on Shipping Document number 018112837JJK.

Profile Number: OR329415  
CWM Tracking ID: 45847401  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



CWMNW RECORDS DEPARTMENT  
Certificate # 225918  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/07/17 as described on Shipping Document number 018112838JJK.

Profile Number: OR329415  
CWM Tracking ID: 45852601  
CWM Unit #: 1\*0  
Disposal Date: 12/07/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225936  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/07/17 as described on Shipping Document number 018112839JJK.

Profile Number: OR329415  
CWM Tracking ID: 45851301  
CWM Unit #: 1\*0  
Disposal Date: 12/07/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225925  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/07/17 as described on Shipping Document number 018112840JJK.

Profile Number: OR329415  
CWM Tracking ID: 45851801  
CWM Unit #: 1\*0  
Disposal Date: 12/07/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225928  
12/28/17





CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/06/17 as described on Shipping Document number 018112841JJK.

Profile Number: OR329415  
CWM Tracking ID: 45850701  
CWM Unit #: 1\*0  
Disposal Date: 12/06/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225922  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112843JJK.

Profile Number: OR329415  
CWM Tracking ID: 45840401  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225769  
12/15/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
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CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112844JJK.

Profile Number: OR329415  
CWM Tracking ID: 45844501  
CWM Unit #: 1\*0  
Disposal Date: 12/04/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225904  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112845JJK.

Profile Number: OR329415  
CWM Tracking ID: 45844401  
CWM Unit #: 1\*0  
Disposal Date: 12/04/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Sumner

CWMNW RECORDS DEPARTMENT  
Certificate # 225903  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112846JJK.

Profile Number: OR329415  
CWM Tracking ID: 45844601  
CWM Unit #: 1\*0  
Disposal Date: 12/04/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.



CWMNW RECORDS DEPARTMENT  
Certificate # 225905  
12/28/17



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/05/17 as described on Shipping Document number 018112848JJK.

Profile Number: OR329418  
CWM Tracking ID: 45845101  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads "Patti Brandt".

CWMNW RECORDS DEPARTMENT  
Certificate # 227203  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112849JJK.

Profile Number: OR329418  
CWM Tracking ID: 45840601  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

CWMNW RECORDS DEPARTMENT  
Certificate # 227199  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112850JJK.

Profile Number: OR329418  
CWM Tracking ID: 45836001  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads "Daria Brandt".

CWMNW RECORDS DEPARTMENT  
Certificate # 227193  
02/05/18





CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112851JJK.

Profile Number: OR329418  
CWM Tracking ID: 45841401  
CWM Unit #: 1\*0  
Disposal Date: 12/04/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads 'Jatti Brands'.

CWMNW RECORDS DEPARTMENT  
Certificate # 227201  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112852JJK.

Profile Number: OR329418  
CWM Tracking ID: 45835601  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads "Danni Brandt".

CWMNW RECORDS DEPARTMENT  
Certificate # 227192  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/01/17 as described on Shipping Document number 018112853JJK.

Profile Number: OR329418  
CWM Tracking ID: 45836101  
CWM Unit #: 1\*0  
Disposal Date: 12/01/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads "Patti Brandt".

CWMNW RECORDS DEPARTMENT  
Certificate # 227194  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/05/17 as described on Shipping Document number 018112854JJK.

Profile Number: OR329418  
CWM Tracking ID: 45845001  
CWM Unit #: 1\*0  
Disposal Date: 12/05/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

A handwritten signature in cursive script that reads "Janni Brandt".

CWMNW RECORDS DEPARTMENT  
Certificate # 227202  
02/05/18



CWM OF THE NORTHWEST  
Federal EPA ID: ORD089452353  
17629 CEDAR SPRINGS LANE  
ARLINGTON, OR 97812

PORT OF BELLINGHAM  
ATTN: MANIFEST SECTION  
WAD009252297  
1801 ROEDER AVENUE  
BELLINGHAM WA 98225

CERTIFICATE OF DISPOSAL  
-----

CWM OF THE NORTHWEST, EPA ID: ORD089452353, has received waste material from PORT OF BELLINGHAM on 12/04/17 as described on Shipping Document number 018112855JJK.

Profile Number: OR329418  
CWM Tracking ID: 45841301  
CWM Unit #: 1\*0  
Disposal Date: 12/04/17

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

CWMNW RECORDS DEPARTMENT  
Certificate # 227200  
02/05/18



**COLUMBIA RIDGE LANDFILL & RECYCLING CENTER**

18177 Cedar Springs Lane  
Arlington, OR 97812  
541-454-2030

January 11, 2018

Engineering Remediation Resources Group  
4585 Pacheco Blvd 200  
Martinez, CA 94553-2228

**CERTIFICATE OF DISPOSAL**

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material from Engineering Remediation Resources Group.

Date Disposed:	Dec 13, 2017 – Jan 2, 2018
Profile #:	126011OR
Generator:	Port of Belingham
Total Loads:	2
Total Tons:	18.18
Waste Description:	PPE, Bags, debris

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

*Victoria McKinney*

Victoria McKinney  
Special Waste Scale Clerk

Columbia Ridge Landfill & Recycling  
 18177 CEDAR SPRINGS LN,  
 ARLINGTON, OR, 97812-6512  
 Ph: (541) 454-2030

Web Ticket # 3370

**Carrier** NONE No Carrier  
**Vehicle#** NONE **Volume**  
**Customer Name** ENGINEERING REMEDIATION **Billing#** 0002165  
**Ticket Date** 01/11/2018 **Grid**  
**Payment Type** Credit Account  
**Manual Ticket#**  
**PO#**  
**Profile** 126011OR(LF01 PPE, Bags and Debris (WM025A))  
**Generator** 1040227(OR-PORT OF BELLINGHAM)

Time	Scale	Operator	Inbound	Gross	0 lb*
In 01/11/18 08:01:00	MANUAL WT	vmckinne		Tare	0 lb*
Out 01/11/18 08:01:00	MANUAL WT	vmckinne		Net	0 lb
		* Manual Weight		Tons	0

**Comments** ONE CD AT END OF JOB 2 LOADS 18.18 TONS TOTAL

**Void Reason**

Surcharges	Qty	UOM	Rate	Fee	Amount
CD SPW \$35-Cert of Disposal	1	Each	35.00		\$35.00

Total Fees  
 Total Ticket \$35.00