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 (1st view).

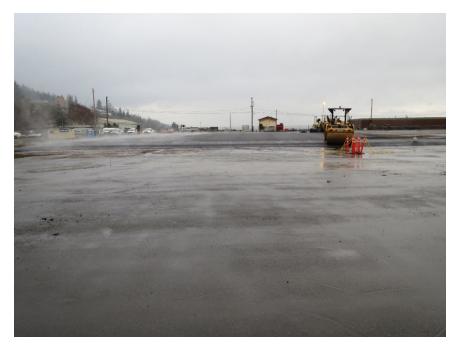


Photo 9. Paving in progress (2nd view).

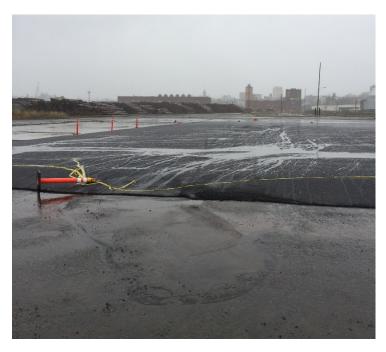


Photo 10. Finished paved surface.

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.				
	10/5/5015			
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Name	Title			

Table of Contents

SECTION	1. INTRODUCTION	1-1
1.1.	Site Background	1-2
1.2.	Report Organization	1-3
SECTION	2. SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN	2-1
2.1.	Potential Spill Sources and Spill Prevention Control and Countermeasure Features	2-1
	2.1.1. Discharge Prevention	2-1
	2.1.2. Spill Prevention Control and Countermeasure Features and Operating Procedure	s.2-1
	2.1.3. Inspections	2-2
	2.1.4. Training	2-2
	2.1.5. Site Security	2-2
2.2.	Spill Response Procedures	2-2
2.3.	Spill Response Kits	2-3
2.4.	Fueling Procedures	2-4
2.5.	Operational Spill Procedures	2-4
SECTION	3. TEMPORARY EROSION AND SEDIMENT CONTROL PLAN	3-1
3.1.	Potential Pollutant Sources.	3-1
3.2.	Erosion and Sediment Control	3-2
	3.2.1. BMPs for Water Erosion	3-2
	3.2.2. BMPs for Wind Erosion	3-2
	3.2.3. BMPs for Tracking Sediment	3-2
	3.2.4. BMPs for Construction Vehicle and Equipment Spills	3-2
3.3.	Inspection, Maintenance, Repair, and Reporting	3-3
SECTION	4. CONTAMINATED MATERIAL TREATMENT PLAN	4-1
4.1.	Mobilization and Site Preparation	4-1
	4.1.1. Site Work Zones	4-2
	4.1.2. Construction BMP Installations	4-2
	4.1.3. Decommissioning Post Indicator Valves	4-2
	4.1.4. Well Protection	4-3
	4.1.5. Treatment Enclosure Setup	4-3
	4.1.6. Waste Stockpile Area	



Table of Contents (continued)

4.2.	Treatment Operations			
	4.2.1. Excavation, Sorting and Staging	4-3		
	4.2.2. Treatment Test Run	4-4		
	4.2.3. Full Scale Treatment	4-4		
4.3.	Site Restoration and Demobilization	4-5		
	4.3.1. Site Restoration	4-5		
	4.3.2. Decontamination	4-5		
SECTION	5. WASTE MANAGEMENT PLAN	5-1		
5.1.	Anticipated Waste Streams	5-1		
5.2.	Onsite Waste Storage5-			
5.3.	Transporation			
5.4.	Designated Treatment, Storage and Disposal Facilites (TSDF)			
SECTION	6. REFERENCES	6-1		



List of Figures

Figure 1. Site Location and Vicinity Map

Figure 2. Site Features

List of Appendices

Appendix A. Site-Specific Health and Safety Plan



Abbreviations and Acronyms

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 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.



Section 1 Introduction

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



Section 1 Introduction

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

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 truckmounted 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.



Section 2 Site Cleanup Activities

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.



Section 2 Site Cleanup Activities

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



Section 2 Site Cleanup Activities

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

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



Section 3 TESC Plan

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.



Section 3 TESC Plan

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

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 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 sulfur¹ (34 lbs),
- 25 wt% portland cement² (360 lbs), and
- Approximately 5 to 10 wt% water (10 20 gallons).
- ¹ Elemental sulfur will be delivered in powdered form and may be mixed in with water prior to mixing

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



² Portland cement will be delivered in 90 lb bags

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 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

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. TRANSPORATION

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 FACILITES (TSDF)

ERRG will use the following TSDFs 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

- 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



Figure 1.	Site Location and Vicinity Map	



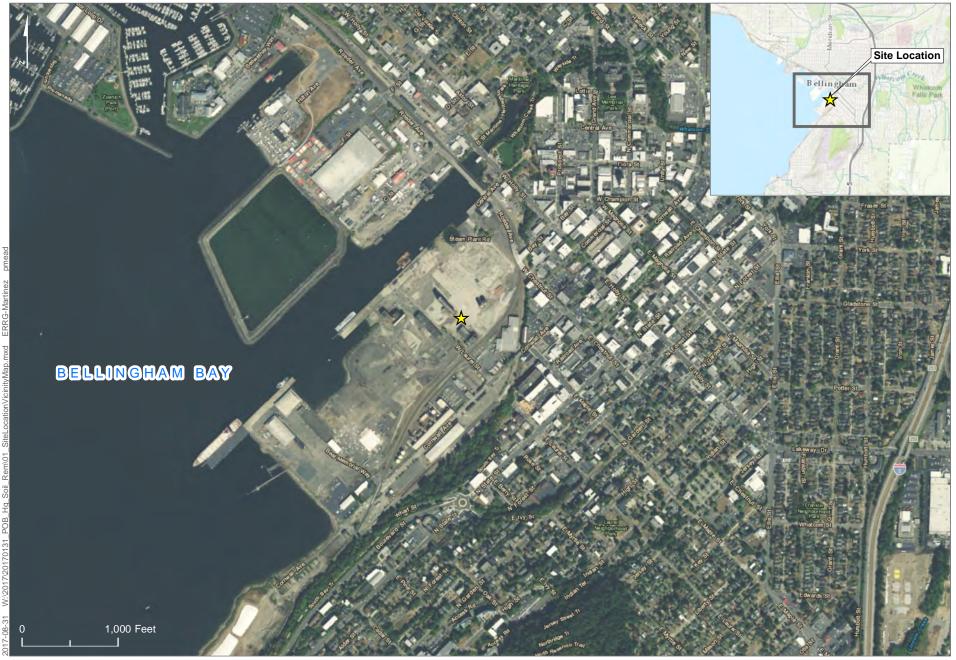


Figure 1. Site Location and Vicinity Map
Port of Bellingham Mercury Soil Treatment and Disposal - Bellingham, Washington



	Fia	ure	2.	Site	Fea	ture	S
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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



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

Page 1 of 1

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 Collected By: MV Lab Number: 64844 Sample Comment: CAS ID# Parameter Result PQL MDL Comment Units DF Method Lab Analyzed Analyst Batch

7439-97-6 **MERCURY** 0.0815 0.0200 **mg/L** 100.0 7470A/1311 a 10/24/17 RHF 7470A_171024





Laboratory Fortified Blank

Reference Number: 17-29881

Report Date: 10/25/17

			True			%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recove	ry Limits*	Qualifier Type	Comment
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.





Low-Level Lab Fortified Blank

Reference Number: 17-29881

Report Date: 10/25/17

			True			%		QC QC		
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier Type	Comment	
7470A 171024	MERCURY	0.000194	0.000200	ma/L	7470A	97	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Method Blank

Reference Number: 17-29881

Report Date: 10/25/17

			True			%	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment	
7470A 171024	0 MERCURY	ND		ma/L	7470A	0-0	MB		

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-29881

Report Date: 10/25/17

			True			%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recove	ry Limits*	Qualifier Type	Comment
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.



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

%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 a 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

Relinquished By Date	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. Sample ID Location	ANA PROTOGRAPHICAL Pr
W - Water SW - Surface Water WW - Wastewater DW - Drinking Water GW - Ground Water S - Soil Time Received By Date 102317		(PLEASE COMPLETE ALL APPRICATION OF CONCULTURE) State: Zip: P.O.#: Expires:
Other Custody Seals Intact Sample Temp 22.5 C Satisfactory Evidence Of Cooling Samples Received Intact Chain Of Custody & Labels Agree	Email: Number Of Containers	LE SHADED SECTIONS) A 17-29881 Main L 1620 South Wain L 1620 Sout
	Special Instruction/ Conditions on Receipt A Lextraction 10/24 A extraction 10/24 A extraction 10/24 A extraction 10/24 A containers	PAGE OF ab (800-755-9295) ut St. Burlington, WA 98233 logy (888-725-1212) Suite 4 Bellingham, WA 98225 Lab (503-682-7802) Lab (541-753-4946) St. Corvallis, OR 97333 ab (541-639-8425) e. Suite F4 Bend, OR 97703



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



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

Page 1 of 1

Data Report

Client Name: Aspect Consulting, LLC

ANALYTICAL

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

										Cili	ci illoig	ariic Criemist	
•	scription: Lot 1 - 5 DAY Number: 64845	Sample Comme	ont:									ate: 10/19/17 Bv: MV	6:00 pm
Lab	14040	Sample Commit	CIII.								Ullected	Dy. IVIV	
CAS ID#	Parameter	Re	sult	PQL	MDL	Units	DF	Method	Lab	Analyze	d Analyst	Batch	Comment
7439-97-6	MERCURY	0.0	00306	0.0020		mg/L	10.0	7470A/1311	а	10/26/17	RHF	7470A_171026	
Sample Des	scription: Lot 2 - 5 DAY									Sa	ample D	ate: 10/20/17	12:00 pm
Lab	Number: 64846	Sample Comme	ent:							C	ollected	By: MV	
CAS ID#	Parameter	Re	sult	PQL	MDL	Units	DF	Method	Lab	Analyze	d Analyst	Batch	Comment
7439-97-6	MERCURY	0.0	00270	0.0020		mg/L	10.0	7470A/1311	а	10/26/17	RHF	7470A_171026	
Sample Des	scription: Lot 3 - 5 DAY									Sa	ample D	ate: 10/20/17	4:00 pm
Lab	Number: 64847	Sample Comme	ent:							C	ollected	By: MV	
CAS ID#	Parameter	Re	sult	PQL	MDL	Units	DF	Method	Lab	Analyze	d Analyst	Batch	Comment
7439-97-6	MERCURY	0.0	00243	0.0002		mg/L	1.0	7470A/1311	а	10/26/17	RHF	7470A 171026	·

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





Laboratory Fortified Blank

Reference Number: 17-29882

Report Date: 10/27/17

			True			%		QC (QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
7470A 171026	n MERCURY	0.00161	0.00167	ma/l	7470A	96	70-130		FB	_

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Low-Level Lab Fortified Blank

Reference Number: 17-29882

Report Date: 10/27/17

			True			%	QC	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* Qu	alifier Type	Comment	
7470A 171026	1 MERCURY	0.00018	4 0.00020	0 ma/L	7470A	92	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Method Blank

Reference Number: 17-29882

Report Date: 10/27/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171026	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-29882

Report Date: 10/27/17

			True			%		QC QC	;
Batch	Analyte	Result	Value	Units	Method	Recover	/ Limits*	Qualifier Ty	pe Comment
7470A 171026	0 MERCURY	0.00224	0.00228	ma/l	7470A	98	90-110	QC	n s

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-29882

Report Date: 10/27/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplica 7470A_171							
141VA_171	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 a 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



Page 2 of 2

Reference Number: 17-29882 Report Date: 10/27/2017

Duplicate

			Spike	Spike	Spike	Percer	nt Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier T	ype Comments
Laborat	ory Fortified Matrix (MS)											_
7470A_171	026											
	62381 MERCURY	ND	0.00203	0.00230	0.00200 mg/L	102	115	70-130	12.5	0-20	L	FM

	Relinquished By			ample Receipt requested (Must include FAX or Email) [☐	Sampled By: M	10	0 0	7	6	5 (L) > 2 (H)	1011	デー		Sample ID	 Be specific in test requests. List each metal individually. Check off analysis to be performed for each sample location. Enter number of containers. 	1. Use one line per sample location	Flored Name: EP -07018%	myone	Phone: Fax:	Attn:		ess: Aspect C	Report To: Mathy CW VDW.C	CHAIN OF CUSTODY / ANALYSIS REQUEST
	Date Ti				4									Location		—,	77	(b) aspectionsultin			Zip.)	7.	JOY AK	DY / ANALYS
	Time Rec	DW - Drinking Water	W - Water	* Sample Matrix	Phone?									Sample Matrix (See Below)	Standard Half-Time (Quickest (1) Emergency	1	Card#:	Card:	Phone:	City:	Address	Bill To:	Billing Er	Sis Zi
	Received By		S)	Matrix	Phone 2167189548					(7	^		Grab or Composite	Standard Half-Time (50% Surcharge) Quickest (100% Surcharge) Phone Call Req Emergency (Phone Call Required)			VISA M/C				A CO A	nail: W. / // /	QUEST
		GW - Ground Water	SW - Surface Water		48 Fax:					11 satan	idzo 1	10/19 18	100	Date	e) Phone Call Re quired)			Expires:	P.O.#:	State:		The Market	(C) (1/2)	(PLEASE C
			iter WW - Wastewater		X					N 00	2:00 图	1800 Z	7.7.7	Time TC				es:		Zip:		Wall Chin	Billing Email: A 1 2 2000	OMPLETE AL
102317 5	Date T	Other	၉ [:]											ltg.	7470A	-	Other		ة ا 🖺		¥ {	1.50 CS		מיטו וממי
55.2	Time	er	<u>0</u>		Email:											Analysis I	ler	RCRA / CERCLA]Clean Water Act	Safe Drinking Water Act	REGULATORY PROCESSIO		- C ONAUED	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			_		aii:											Requested		Т		ater Act	Y 020020 AM	64845 - 64847	SECTIONS)	
Evidence Samples I Chain Of I	Sample Temp	Custody :] [203		9150 S	805 W	162		ο ()	Ŋ
Evidence Of Cooling Samples Received Intact Chain Of Custody & Labels Agree	L 1	Custody Seals Intact			<u></u>												Bend I 32 Empire A	Corvallis La	Portland W Pioneer C	Microbi / Orchard Dr	0 South Wal	LYTICAL		
act abels Agree	22.5 c Satisfactory	٤								7	1	1 22 1			er Of Containers		Bend Lab (541-639-8425)	Corvallis Lab (541-753-4946) 0 SW 3 rd St. Corvallis, OR 973	Portland Lab (503-682-7802) 9150 SW Pioneer Ct. Suite W Wilsonville,	Microbiology (888-725-1212) chard Dr. Suite 4 Bellingham.	1620 South Walnut St. Burlington, WA		1 AGE	DACE
	ă Q[I	Yes No	-	oral containers	Containor				200	extraction of	11. 12. 11. 12. 12. 12. 12. 12. 12. 12.	* + . + .	Contamons of Necellon	Special Instruction/	Nush		Bend Lab (541-639-8425) 20332 Empire Ave. Suite F4 Bend, OR 97703			Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225	9295) gton, WA 98233) -	
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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

Page 1 of 1

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_171108



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

Page 1 of 1

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 Sample Date: 11/1/17

Lab Number: 68529 Matrix: Soil Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

RCRA Metals

7439-97-6 **MERCURY** 0.00246 0.200 0.0005 1.40E-05 mg/L Pass 7470A/1311 11/8/17 RHF **a** 7470A_171108





Laboratory Fortified Blank

Reference Number: 17-31668

Report Date: 11/09/17

			True			%		QC Q	С	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier Ty	уре	Comment
7470A 171108	n MERCURY	0.00157	0.00167	ma/l	7470A	94	70-130		FB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Low-Level Lab Fortified Blank

Reference Number: 17-31668

Report Date: 11/09/17

			True			%		QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits*	Qualifier Type	Comment	
7470A 171108	1 MERCURY	0.00019	3 0.000200	0 ma/L	7470A	97	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-31668

Report Date: 11/09/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171108	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-31668

Report Date: 11/09/17

			True			%		QC (ЭC	
Batch	Analyte	Result	Value	Units	Method	Recover	/ Limits*	Qualifier T	Гуре	Comment
7470A_171108	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.



Reference Number: 17-31668

Report Date: 11/9/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplicat							
7470A_17110	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 a 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



Page 2 of 2

Reference Number: 17-31668

Report Date: 11/9/2017

Duplicate

			Spike	Spike	Spike	Percer	nt Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments
Labora	tory Fortified Matrix (MS)											
7470A_171	108											
	68292 MERCURY	ND	0.00180	0.00179	0.00167 mg/L	108	107	70-130	0.6	0-20		LFM

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a 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



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: 17-32645 - 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	
70513	LOT 4	
Analytical Method	Notes	Created by
7470A	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

Page 1 of 1

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 Sample Date: 10/31/17

Lab Number: 70513 Matrix: Other 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



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

Page 1 of 1

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 Sample Date: 10/31/17

Lab Number: 70514 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

7439-97-6 **MERCURY** 0.814 0.200 0.5000 mg/L Fail 7470A/1311 11/14/17 RHF a 7470A_171114





Laboratory Fortified Blank

Reference Number: 17-32645

Report Date: 11/15/17

			True			%		QC (QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
7470A 171114	n MERCURY	0.00161	0.00167	ma/l	7470A	96	70-130	ı	FB	_

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Low-Level Lab Fortified Blank

Reference Number: 17-32645

Report Date: 11/15/17

			True			%	(QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* (Qualifier Type	Comment	
7470A 171114	1 MERCURY	0 00018	0 0.00020	0 ma/L	7470A	90	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-32645

Report Date: 11/15/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171114	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-32645

Report Date: 11/15/17

			True			%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recover	/ Limits*	Qualifier Typ	e Comment
7470A 171114	n MERCURY	0.00232	0.00228	ma/l	7470A	102	90-110	QC:	3

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-32645

Report Date: 11/15/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplic	ate					•	
7470A_17	1114						
	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 a 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



Page 2 of 2

Reference Number: 17-32645

Report Date: 11/15/2017

Du	nlia	ra	tρ
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			Spike	Spike	Spike		Percent Recovery				QC			
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments	
Laborato	ry Fortified Matrix (MS)													
7470A_17111	4													
	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	

Sample Receipt requested (Must include FAX or Emsl) Sampled By: Phone: 206-718-9548 Project Name: Report Email: myondershe@aspectconsulting.com Attn: MATTHEW VON DER AHE Report To: ASPECT CONSULTING CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS) NSTRUCTIONS APLEAS Address: Sample ID State: Location 4 8元50七月9月 Turn Around Time Required Half-Time (50% Surcharge) Emergency (Phone Call Required) Quickest (100% Surcharge) Phone Call Req. Stendard Phone: Card: W - Water Card#: Phone: 2067807722 City: Bainbridge Island Billing Email: accountspayable@aspectconsulting.com DW ~ Drinking Water Address 350 Madison Ave N Bill To: Accounts Payable, Aspect Consulting VISA Grab or Composite M GW - Ground Water SW - Surface Water BR Date P:0#:070188-27 State: WA Zip: 98110 Fax: 124 Time WW - Wastewater OL - Oil S-Soil TCLP (1311)/ Hg (7470A) \$35.00 11.617 948 ∏0ther UGIERN Water Act ☐RCRA / CERCLA 800 Other Analysis Requested FOR LAB USE Email: ٠. 🚅 Tange Samples Received Intact Sample Temp [6] Portland Lab (503-682-7802) 9150 SW Planeer Ct. Suite W Wijsonville, OR 97070 Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Beilingham, WA 98225 20332 Empire Ave. Suite F4 Bend, OR 97703 Mein Lab (800-755-9295) 1620 South Weinut St. Burlington, WA 98233 Corvallis Lab (541-753-4946) 540 SW 3rd St. Cowallis, OR 97333 **Number Of Containers** ▼ Total Containers Special Instruction/ Conditions on Receipt 8

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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 Sample Date: 11/2/17

Lab Number: 69844 Matrix: Other 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



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 Sample Date: 11/2/17

Lab Number: 69845 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

RCRA Metals

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





Laboratory Fortified Blank

Reference Number: 17-32257

Report Date: 11/10/17

		True				%			QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
74704 171110 0	MERCURY	0.00160	0.00167	ma/l	7470Δ	96	70-130		LFR	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Low-Level Lab Fortified Blank

Reference Number: 17-32257

Report Date: 11/10/17

		True				%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier Type	Comment
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.







Method Blank

Reference Number: 17-32257

Report Date: 11/10/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171110	0 MERCURY	ND		ma/L	7470A	0-0	MB	_

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-32257

Report Date: 11/10/17

		True				%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recover	/ Limits*	Qualifier Type	Comment
7470A 171110	0 MFRCURY	0.00220	0.00228	ma/l	7470A	96	90-110	ocs	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-32257

Report Date: 11/10/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplica							
7470A_17	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 a 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



Page 2 of 2

Reference Number: 17-32257 Report Date: 11/10/2017

Duplicate

			Spike Spike Spike Percent Recovery				QC					
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments
Laborat	ory Fortified Matrix (MS)											
7470A_1711	10											
	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 a 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

Relinguighed By Time	[0	×	Sample Receipt requested (Must include FAX or Email) 🔀	Sampled By:	10	D CO 1	2 LOT 7	Sample ID Location	2. Be specific intestirequests 3. List each metal individually. 4. Check off analysis to be performed for each sample location 5. Enternumber of containers.	NSTRUCTIONS "PLEASE READ"	Project Name:	Report Emaît: mvonderahe@aspectconsulting.com	Phone: 206-718-9548 Fax: F	Attn: MATTHEW VON:DER AHE	City: State: Zip:	Address:	Report To: ASPECT CONSULTING	CHAIN OF CUSTODY / ANALYSIS REQUEST
Received By KR	DW - Drinking Water GW - Ground Water S - Soil	W - Water SW - Surface Water WW - Wastewater	* Sample Matrix	Phone: Fax:			S C 11/2 15:00 (1)	Sample Grab Date Time L 7 See Bolow) Composite Date Time L 7	Turn Around Time:Required Standard Half-Time (50% Surcharge) Quickest (100% Surcharge) Phone Call Req. To A (170		Card#:	Card: VISA :M/C Expires:	Phone: 2067807722 P.O.#::070188-27	City: Bainbridge Island State: WA Zip: 98/10	Address: 350:Madison Ave:N	Bill To: Accounts Payable, Aspect Consulting		S REQUEST (PLEASE COMPLETE ALL APPLICABL
Date Time S 17.7 8:46 1.3.7 1600 2.8° CASE S.	Other	water -OL - Oil		Email:						Analysis Requested	Uner	□RCRA/©ERCLA	. □Clean Water Act	Safe Drinking Water Act	CHECK REGULATORY PROGRAM	69844 - 69845		PLICABLE SHADED SECTIONS)
Sample Temp X - L C Satisfactory	VALUE ON SEAL SEAL STATES OF THE	<u>.</u>		2 Total Containers				Special Instruction/ Conditions on Receipt	er Of Containers		<u>BendtLab (541-539-8425)</u> 20332 Empire Ave. Suite F4 Bend, OR 97703	Corvallis <u>Lab (541-753-4946)</u> 540 SW 3 rd St. Corvallis, OR 97333	9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070	805 W. Orchard Dr. Suite 4 Bellingham, WA 98225	1620 South Walnut St. Burlington, WA 98233 Microbiology (888, 725, 1212)	Main Lab (800-755-9295)	ANALYTICAL	PAGE OF



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 Sample Date: 11/3/17

Lab Number: 70157 Matrix: Soil Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

RCRA Metals

7439-97-6 **MERCURY** 0.00311 0.200 0.0050 mg/L Pass 7470A/1311 11/14/17 RHF **a** 7470A_171114



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 Sample Date: 11/3/17

Lab Number: 70158 Matrix: Soil Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

RCRA Metals

7439-97-6 **MERCURY** 0.00350 0.200 0.0050 mg/L Pass 7470A/1311 11/14/17 RHF **a** 7470A_171114





Laboratory Fortified Blank

Reference Number: 17-32451

Report Date: 11/15/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier	г Туре	Comment
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.







Low-Level Lab Fortified Blank

Reference Number: 17-32451

Report Date: 11/15/17

			True			%	(QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* (Qualifier Type	Comment	
7470A 171114	1 MERCURY	0.00018	0.000200) ma/L	7470A	90	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-32451

Report Date: 11/15/17

			True			%	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment	
7470A 171114	0 MERCURY	ND		ma/L	7470A	0-0	MB		_

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-32451

Report Date: 11/15/17

			True			%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier Type	Comment
7470A 171114	0 MERCURY	0.00232	0.00228	ma/L	7470A	102	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-32451

Report Date: 11/15/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplica	nte						
7470A_171	114						
	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 a 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



Page 2 of 2

Reference Number: 17-32451 Report Date: 11/15/2017

Duplicate

			Spike	Spike	Spike	Percen	t Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments
Laborat	ory Fortified Matrix (MS)											
7470A_1711	14											
	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

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a 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

Sample Receipt requested (Must include FAX or Email) 🗶 Relinguished By Sampled By: 10 ဖ 2. Be specific in test requests 3. List each metal individually. Ojý. ò o, Úŋ w for each sample location 4. Check off analysis to be performed Project Name: 4 N 1. Use one line per sample location. Report Email: mvonderahe@aspectconsulting.com Phone: 206-718-9548 Attn: MATTHEW VON DER AHE Address: Report To: ASPECT CONSULTING INSTRUCTIONS "PLEASE READ" CHAIN OF CUSTODY / ANALYSIS REQUEST Enter number of containers **LO1**8 F LOT 8 Sample ID State: Location Zip ナジン センタニ Date Turn Around Time Required Half-Time (50% Surcharge) Emergency (Phone Call Required) Standard Time ∐Quickest (100% Surcharge) Phone Call Req. Card: Card# City: Bainbridge Island Billing Email: accountspayable@aspectconsulting.com * Sample Matrix Phone: 2067807722 Address 350 Madison Ave N Bill To: Accounts Payable, Aspect Consulting DW - Drinking Water W - Water Phone: Ø ഗ Sample Matrix —(See Below) Received By VISA Grab or Composite Ö O M/C GW - Ground Water SW - Surface Water (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS) 13 11/3 Date State: WA P.O:#: 070188-27 Expires: Fax: 15:00 15:00 Time Zip: 98110 S - Soil WW - Wastewater TCLP (1311)/ Hg (7470A) 11/9/2011 17:10 EXE 0.8°C 11.8.17 Date CHECK REGULATORY PROGRAM Other RCRA / CERCLA ☐ Clean Water Act Safe Drinking Water Act 안-이 Other Analysis Requested 137 Time Email: Evidence Of Cooling Custody Seals Intact Chain Of Custody & Labels Agree Sample Temp /9. Samples Received Intact Portland Lab (503-582-7802) 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225 20332 Empire Ave. Suite F4 Bend, OR 97703 Main Lab (800-755-9295) 1620 South Wainut St. Burlington, WA ANALYTICAL 540 SW 3" St. Corvallis, OR 97333 Microbiology (888-725-1212) Corvallis:Lab (541-753-4946) N **Number Of Containers** 3c Satisfactory PAGE_ ■ Total Containers Conditions on Receipt Special Instruction/ Se. 98233 ĕ X



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: 17-32722 - 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



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: 17-32722

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 Sample Date: 11/6/17

Lab Number: 70699 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

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



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: 17-32722

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 Sample Date: 11/6/17

Lab Number: 70700 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

7439-97-6 **MERCURY** 0.00337 0.200 0.0050 mg/L Pass 7470A/1311 11/14/17 RHF **a** 7470A_171114



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: 17-32722

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 Sample Date: 11/7/17

Lab Number: 70701 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Method Units Analyzed Analyst lab Batch Comment

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



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: 17-32722

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 Sample Date: 11/7/17

Lab Number: 70702 Matrix: Other Collected By:

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

7439-97-6 **MERCURY** 0.00294 0.200 0.0050 mg/L Pass 7470A/1311 11/14/17 RHF **a** 7470A_171114





Laboratory Fortified Blank

Reference Number: 17-32722

Report Date: 11/15/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier	Туре	Comment
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.





Low-Level Lab Fortified Blank

Reference Number: 17-32722

Report Date: 11/15/17

			True			%	(QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* (Qualifier Type	Comment	
7470A 171114	1 MERCURY	0.00018	0.000200) ma/L	7470A	90	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-32722

Report Date: 11/15/17

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

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-32722

Report Date: 11/15/17

			True			%		QC (ЭC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier	Гуре	Comment
7470A 171114	n MERCURY	0.00232	0.00228	ma/l	7470A	102	90-110	(ocs	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-32722

Report Date: 11/15/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplica	ate						
7470A_17	1114						
	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 a 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



Page 2 of 2

Reference Number: 17-32722 Report Date: 11/15/2017

Duplicate

			Spike	Spike	Spike	Percen	t Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier Type	e Comments
Laborat	ory Fortified Matrix (MS)											
7470A_171′	114											
	70179 MERCURY	ND	0.00144	0.00143	0.00167 mg/L	86	86	70-130	0.7	0-20	LFM	1
	70251 MERCURY	ND	0.00191	0.00198	0.00167 mg/L	114	119	70-130	3.6	0-20	LFM	1

Report To: ASPECT CONSULTING	Report To: ASPECT CONSULTING Billing Email: accountspayable@aspectconsulting.com	Billing Ema	Billing Email: accountspayable@aspectconsulting.com	PLEASE vable@asr	COMPLET	ing com		LE SHADED SECTIONS)	SECTION N	う S		5	1	
Address:		Bill To: Acc	Accounts Payable, Aspect Consulting	e, Aspect C	Consulting		<u></u>	70699	9-70702	1	_	Mai	n Lab (80	0-755-9295)
City: SI	State: Zip:	Address 35	Address 350 Madison Ave N	è Z			CHECK	REGULATORY PROGRAM	ORY PRO	GRAM	162	0 South W	lainut St.	Microbiology (888, 725, 1212)
Attn: MATTHEW VON DER AHE	HE .	City: Bainbridge Island	ridge Island	State: WA	A Zip: 98110	8110		☐Safe Drinking Water Act	Water Ac	14	805 W	. Orchard	Dr. Suite	805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Phone: 206-718-9548	Fax	Phone: 2067807722	7807722	P.O.#: 0	P.O.#: 070188-27		Cle	Clean Water Act	Act		9150 S	W Pionee	Ct. Suite	9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Report Email: mvonderahe@aspectconsulting.com	aspectconsulting.com	Card: V	VISA M/C	Exp	Expires:		□RC	RCRA / CERCLA	CLA			Corva 540 SW	llis Lab	Corvallis Lab (541-753-4946) 540 SW 3 rd St. Corvallis, OR 97333
Project Name: GP Hg Soil Treatment	eatment	Card#:					Other	ier			203	Ben 32 Empire	d Lab (5. Ave. Sui	Bend Lab (541-639-8425) 20332 Empire Ave. Suite F4 Bend. OR 97703
INSTRUCTIONS "PLEASE	ASE READ"						,	Analysis		Requested				
1. Use one line per sample location	ation.	Turn Around Time Required	e Required											
 Be specific in test requests. List each metal individually. Check off analysis to be near 		Standard Half-Time (50%, Surcharce)	7% Surcharge	2-1		1							tainers	
for each sample location. 5. Enter number of containers.		Quickest (100	Call-Time (20% Surcharge) Phone Call Req Quickest (100% Surcharge) Phone Call Req Emergency (Phone Call Required)	hone Call F uired)	Req. 57	(1311). 470A)							er Of Cont	
Sample ID	Location	Sample Matrix (See Below)	Grab or Composite	Date	Time	TCLP Hg (7							Numbe	Special Instruction/
1 LOT 10		S	С	11/6	15:00								_	ocinciano di mocale.
2 LOT 11		S	С	11/6	15:00								_	
3 LOT 12		S	С	11/7	15:00	•							_	
4 LOT 13		S	C	11/7	15:00	•							_	
UN .][][][
6		1												
7														
œ														
9														
10														
Sampled By:		Phone:			Fax:				Email:				IND.	■ Total Containers
Sample Receipt requested (Must include FAX or Email)	nclude FAX or Email)	* Sample Matrix W - Water		SW - Surface Water		WW - Wastewater	O							
		DW - Drinking Water		GW - Ground Water		S - Soil	0	her)			Yes No N/A
										L	Custody		7 5	
Relinquished By	Date	Time Rece	Received By				Date .	Time			Sample Temp	Temp (. CCS	Satisfactory X
MANUE	21/13	1203			ZMA						Evidenc	Evidence Of Cooling	ng	
					3	TO IN	11/13/2017	6:38 5	PXE 2.85	0	Chain O	Samples Received Intact	Intact	
						-					Cildiii	Criairi Or Custody & Labels Agree	or Labels	Agree



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: 17-32895 - 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



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: 17-32895

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 14 Sample Date: 11/8/17
Lab Number: 71074 Matrix: Other Collected By: MV

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

7439-97-6 **MERCURY** 0.00337 0.200 0.0005 1.40E-05 mg/L Pass 7470A/1311 11/17/17 RHF **a** 7470A_171111



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: 17-32895

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

Lab Number: 71075

Matrix: Other

Sample Date: 11/8/17

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



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: 17-32895

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 Sample Date: 11/9/17
Lab Number: 71076 Matrix: Other Collected By: MV

CAS ID# Parameter Result MCL PQL MDL Units Method Analyzed Analyst lab Batch Comment

7439-97-6 **MERCURY** 0.0240 0.200 0.0005 1.40E-05 mg/L Pass 7470A/1311 11/17/17 RHF **a** 7470A_171111;



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: 17-32895

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
Lab Number: 71077 Matrix: Other Sample Date: 11/9/17
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;





Laboratory Fortified Blank

Reference Number: 17-32895

Report Date: 11/20/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier	Туре	Comment
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.





Low-Level Lab Fortified Blank

Reference Number: 17-32895

Report Date: 11/20/17

			True			%	Q	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* Q	Qualifier Type	Comment	
7470A 171117	1 MERCURY	0.00018	9 0.00020	0 ma/L	7470A	95	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-32895

Report Date: 11/20/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier 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.





Quality Control Sample

Reference Number: 17-32895

Report Date: 11/20/17

				True			%		QC (ЭC	
Batch	l	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier	Гуре	Comment
74704	171117	0 MERCLIRY	0 00231	0 00228	ma/l	7470Δ	101	Qn_11n	(200	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-32895

Report Date: 11/20/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplica							
7470A_17 ²	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 a 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



Page 2 of 2

Reference Number: 17-32895

Report Date: 11/20/2017

Duplicate

			Spike	Spike	Spike	Percer	t Recovery				QC		
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifie	r Type	Comments
Laborat	tory Fortified Matrix (MS)												_
· -	71077 MERCURY	0.00300	0.00496	0.00673	0.00167 mg/L	117	223	70-130	62.2	0-20	INH	LFM	



Qualifier Definitions

Reference Number: 17-32895

Report Date: 11/20/17

Qualifier	Definition
INH	The sample was non-homogeneous

ess:		Bill To	Billing Email: accountspayable@aspectconsulting.com Bill To: Accounts Payable, Aspect Consulting	ntspayable@ yable, Asper)aspectconsuct Consulting	ulting.com	17	-328	<u>2</u> 895		ANALYTICAL	Lab (800-755-9295)
City: State:	ite: Zip:	Addre	Address 350 Madison Ave N	on Ave N			CHECK REGU		MVGCOG .	162	South Wa	Main Lab (800-755-9295) 1620 South Walnut St. Burlington, WA 98233
Attn: MATTHEW VON DER AHE	击	City: E	City: Bainbridge Island	nd State: WA		Zip: 98110	∏Safe I		king Water Act	805 W	Microb Orchard D	Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Phone: 206-718-9548 F	Fax:	Phone	Phone: 2067807722		2		Clean	☐Clean Water Act		9150 S	Portlan	Portland Lab (503-682-7802)
Report Email: mvonderahe@aspectconsulting.com	spectconsulting.com	Card:	VISA N	M/C E	Expires:		RCRA]RCRA/CERCLA		0	Corvall	Corvallis Lab (541-753-4946)
Project Name: GP Hg Soil Treatment	atment	Card#:					Other				540 SW 3	540 SW 3 rd St. Corvallis, OR 97333 Bend Lab (541-639-8425)
	SE READ"						Analy	Sis	Requested		2 Empire A	20332 Empire Ave. Suite F4 Bend, OR 97703
1. Use one line per sample location		ırn Around	Time Require				-	0	duester			
	Canon	orn Around	Turn Around Time Required	lg.								S
 List each metal individually. Check off analysis to be performed 	lly. performed	Standard	Standard Half-Time (50% Surcharge)	arge)		I						ainer
for each sample location. 5. Enter number of containers	Ĭ.	3-day	3-day TAT, \$1	\$160 ea	٦	311). (A)						Conta
		Emerger	Emergency (Phone Call Required)	Required)	l	7 (1: 7470						er Of
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-		S	C	11/8	15:00]]]	
		S	C	11/8	16:00							-
		S	C	11/9	15:00][3 [
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Sampled By: Mv		Phone:	-		1							
ample Receipt requested (Must include FAX or Email) 🛛	ude FAX or Email) 🛛	* Sample Matrix	e Matrix		i ax.	Ì		Email:			4	
sample results also to Dave Heffner, dheffner@aspectconsulting.com	Dave Heffner, ulting.com		king Water	SW - Surface Water		WW - Wastewater	other					Yes
							100		L	Custody Seals Intact	eals Intact	22%
Relinquished By	Date	Time R	Received By			Date	Time	- Edg	7	Sample Temp	mp [7.]	C Satisfactory
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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



Parameter

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

Page 1 of 1

Comment

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:

Method

Patrick Miller, MS QA Officer

Analyzed Analyst lab Batch

Sample Description: Lot 18
Lab Number: 71660 Matrix: Other Collected By: MV

MCL

Result

7439-97-6 **MERCURY** 0.00227 0.200 0.0005 1.40E-05 mg/L Pass 7470A/1311 11/17/17 RHF a 7470A_171111;

PQL

MDL

Units

CAS ID#





Laboratory Fortified Blank

Reference Number: 17-33123

Report Date: 11/20/17

			True			%		QC QC)
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier Ty	pe Comment
7470A 171117	0 MERCURY	0.00149	0.00167	ma/L	7470A	89	70-130	LF	В

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Low-Level Lab Fortified Blank

Reference Number: 17-33123

Report Date: 11/20/17

			True			%		QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits*	Qualifier Type	Comment	
7470A 171117	1 MERCURY	0.00018	9 0.000200) ma/L	7470A	95	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Method Blank

Reference Number: 17-33123

Report Date: 11/20/17

			True			%	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment	
7470A 171117	0 MERCURY	ND		ma/L	7470A	0-0	MB		

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-33123

Report Date: 11/20/17

				True			%		QC (ЭC	
Batch	l	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier	Гуре	Comment
74704	171117	0 MERCLIRY	0 00231	0 00228	ma/l	7470Δ	101	Qn_11n	(200	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-33123

Report Date: 11/20/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplicat							
74700_1711	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 a 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



Page 2 of 2

Reference Number: 17-33123 Report Date: 11/20/2017

Duplicate

			Spike	Spike	Spike	Percer	nt Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifie	r Type Comments
Laborat	tory Fortified Matrix (MS)											
7470A_171	117											
	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 a 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



Qualifier Definitions

Reference Number: 17-33123

Report Date: 11/20/17

Qualifier	Definition
INH	The sample was non-homogeneous

Sample Receipt requested (Must include FAX or Email) X |dheffner@aspectconsulting.com sample results also to Dave Heffner, Relinquished By ᇹ Sampled By: My o, 4 ω N 5. Enter number of containers 4. Check off analysis to be performed List each metal individually. Project:Name: GP:Hg Soil Treatment Be specific in test requests. Report Email: mvonderahe@aspectconsulling.com for each sample location. Phone: 206-718-9548 ξ CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS) Report To: ASPECT CONSULTING Billing Email: accountspayable@aspectconsulting.com [Billing Email: accountspayable@aspectconsulting.com] INSTRUCTIONS "PLEASE READ" Attn: MATTHEW VON DER AHE Address: Use one line per sample location TOT 18 3 Sample ID State: Fax: Location Ζ'n \bar{z} Date Turn Around Time Required [7]3-day TAT, \$160 ea Standard 500 Time Emergency (Phone Call Required) Half-Time (50% Surcharge) W - Water * Sample Matrix DW - Drinking Water Phone: Sampte Matrix (See Below) Card# Card City: Bainbridge Island Bill To: Accounts Payable, Aspect Consulting ഗ Phone: 2067807722 Address 350 Madison Ave N Received By VISA. Grab or Composite n GW - Ground-Water SW - Surface Water 11/9/17 Date P:0.#: 070188-27 State: WA Expires: 扬 15:00 Fax: Time Zip: 98110 S - Soil WW - Wastewater OL - Oil TCLP (1311)/ Hg (7470A) 11511 Date CHECK REGULATORY PROGRAM Other ∏RCRA / CERCLA _]Clean Water Act ⊒Safe Drinking Water Act Other Analysis Requested 630 Time Email: Chain Of Custody & Labels Agree Samples Received Intact Evidence Of Cooling Custody Seals Intac Sample Temp Portland\(\text{Lab.}\)(503-682:7802\(\text{2}\) 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070 Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225 20332 Empire Ave. Suite F4 Bend, OR 97703 Main Lab (800-755-9295) 1620 South Walhut St. Burlington, WA 98233 ANALYTICAL Corvallis Lab (541-753-4946) 540:SW 3rd St. Corvallis, OR 97333 **Number Of Containers** C Satisfactory ■ Total Containers Conditions on Receipt Special Instruction/ Yes.



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



Lab Number: 72877

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

Page 1 of 1

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:

Collected By: MV

Patrick Miller, MS QA Officer

Sample Description: Lot 19 Sample Date: 11/10/17 Matrix: Other

CAS ID# Parameter Result MCL PQL MDL Method Units Analyzed Analyst lab Batch Comment

MERCURY 0.00987 7439-97-6 0.200 0.0050 mg/L Pass 7470A/1311 11/28/17 RHF a 7470A_171128



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 Sample Date: 11/13/17
Lab Number: 72878 Matrix: Other 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_171128



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		Sample Date: 11/13/17
Lab Number: 72879	Matrix: Other	Collected By: MV
CAS ID# Parameter	Result MCL PQL	MDL Units Method Analyzed Analyst lab Batch Comment

0.006285 0.200 0.0050 **MERCURY** 7439-97-6 mg/L Pass 7470A/1311 11/28/17 RHF **a** 7470A_171128





Laboratory Fortified Blank

Reference Number: 17-33710

Report Date: 11/29/17

			True			%		QC Q	C	
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier Ty	ype	Comment
7470A 171128	0 MERCURY	0.00149	0.00167	mg/L	7470A	89	70-130	LF	FB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Low-Level Lab Fortified Blank

Reference Number: 17-33710

Report Date: 11/29/17

			True			%	C	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* C	Qualifier Type	Comment	
7470A 171128	1 MERCURY	0.00019	1 0.00020	0 ma/L	7470A	96	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Method Blank

Reference Number: 17-33710

Report Date: 11/29/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171128	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-33710

Report Date: 11/29/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
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.



Reference Number: 17-33710

Report Date: 11/29/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC				
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments				
Duplicat	Duplicate										
7470A_1711	28										
	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 a 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



Page 2 of 2

Reference Number: 17-33710 Report Date: 11/29/2017

Duplicate

			Spike	Spike	Spike	Percer	nt Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments
	Laboratory Fortified Matrix (MS)											
7470A_171	128											
	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

Relinquished By Date 11/2/ 11/2/	sample receipt requested (Must include FAX or Email) X sample results also to Dave Heffner, dheffner@aspectconsulting.com	Sampled By: My	10.	8 7	6	4 STOJ ZI		Sample ID Location	Be specific in test requests List each metal individually Check off analysis to be performed r each sample location. Enter number of containers	ADII	Project Name: GP Hg Soil Treatment	Report Email: mvonderahe@aspectoonsulting.com.	Phone: 206-718-9548 Fax:	Attn: MATTHEW VON DER AHE	City: State: Zip:	Address:	Report To: ASPECT CONSULTING	CHAIN OF CUSTODY / ANALYSIS
Time Received By Co.	*Sample Matrix W - Water SW - Surface Water WW - Wastewater DW - Drinking Water GW - Ground Water S - Soil	Phone: Fax:				S C 11/13/17 11/7:00 (C 11/13/17	Sample Grab Or Date Time C C C C C C C C C C C C C C C C C C C	Standard Standard		:Card#:	M/C	P:0.#: 0701	City: Bainbridge Island State: WA Zip: 98110	Address 350 Madison Ave N	Bill To: Accounts Payable, Aspect Consulting.	Billing Email: accountspayable@aspectconsulting.com	YSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE
Sample Mulibil B:50 WI Sample Sample Chain	OL - Oil Other	Email:								Analysis Requested	Other	\/CERCLA	Clean Water Act 915	****	CHECK REGULATORY PROGRAM .	72877-72873		PPLICABLE SHADED SECTIONS)
Clustody/Seals Intact Sample Temp 20, 5 C Satisfactory 2	Ĺ	3 ▲ Total Containers						Special Instruction/ Conditions on Receipt	er Of Containers	Control of the contro	Bend Lab (541-539-8425) 20332 Empire Ave. Suite Ed Bent OB 07703	Corvallis Lab (841-753-4946) 540 SW 3 rd St. Corvallis - OR 97333	Portland Lab (503-682-7802) 9150 SW-Pioneer Ct. Suite W. Wilsonville OR-97070	Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225	1620 South Walnut St. Builington, WA 98233	Main tak 1800 755 poor		PAGE 1 OF 1



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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

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



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: 17-33706

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 22 - Sample Date: 11/15/17
Lab Number: 72868 Matrix: Other 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_171128



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: 17-33706

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
Lab Number: 72869

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** 0.00637 0.200 0.0050 mg/L Pass 7470A/1311 11/28/17 RHF **a** 7470A_171128



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: 17-33706

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 - Sample Date: 11/15/17
Lab Number: 72870 Matrix: Other 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_171128





Laboratory Fortified Blank

Reference Number: 17-33706

Report Date: 11/29/17

			True			%			QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
7470A 171128 0	MERCURY	0.00149	0.00167	ma/l	7470A	89	70-130		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Low-Level Lab Fortified Blank

Reference Number: 17-33706

Report Date: 11/29/17

			True			%	C	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* C	Qualifier Type	Comment	
7470A 171128	1 MERCURY	0.00019	1 0.00020	0 ma/L	7470A	96	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







Method Blank

Reference Number: 17-33706

Report Date: 11/29/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171128	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-33706

Report Date: 11/29/17

			True			%		QC Q	(C	
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits*	Qualifier T	ype	Comment
7470A 171128	o MERCURY	0.00219	0.00228	ma/l	7470A	96	90-110	C	CS	_

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-33706

Report Date: 11/29/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplicat	te						
7470A_1711	28						
	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 a 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



Page 2 of 2

Reference Number: 17-33706 Report Date: 11/29/2017

Duplicate

			Spike	Spike	Spike		Percen	t Recovery				QC		
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type Comments	
Laborate	aboratory Fortified Matrix (MS)													
7470A_1711	28													
	72868 MERCURY	0.00658	0.00835	0.00827	0.0016	7 mg/L	106	101	70-130	4.6	0-20		LFM	
	72884 MERCURY	0.00116	0.00292	0.00304	0.0016	7 mg/L	105	113	70-130	6.6	0-20		LFM	

KRSI JII/21/15/78:50 WI-	Received By Date Time Received By Date Time Sample Tem	dheffner@aspectconsulting.com bw - Drinking Water GW - Ground Water S - Soil Other	Sample receipt requested (Must include iFAX or Email) XI Sample Matrix Sample results also to Dave Heffiner, W-water SW-Surface Water WW-Wastewater 0L-0	سا				IOT 23	- 8%% 5195		Emergency (Phone Call Required)	<u>F</u>]3-day TAT, \$160 ea	Đ		Project Name: GP Hg Soil Treatment Card#: 20332 E	mvonderahe@aspectconsulting.com	Phone: 2067807722 P.O.#: 070188-27	V:DER AHE City: Bainbridge Island State: WA Zip: 98.110 ☐Safe Drinking:Water Act	CHECK REGULATORY PROGRAM	72868 - 72870 T	/-33/06	
Evidence Of Gooling Samples Received Intact Chain Of Custody & Labels Agree Evidence Of Gooling Samples Received Intact Samples Received Intact	Sample Temp 223 C Satisfactory	Yes No NIA		Email: 3 ◀ Total Containers						Special instruction/ Conditions on Receipt	ėr O	f Con	talners	Requested	Bend: Lab (541-639:8425) 20332 Empire Ave. Suite F4 Bend, OR 97703	CLA <u>Corvallis Lab (541-753-4946)</u> 540 SW 3 rd St. Convallis, OR 97333	93 50 SV	· · · · · · · · · · · · · · · · · · ·	1- -	38 - 72870	33/06 ANALYTICAL P	



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

Page 1 of 1

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

CAS ID# Parameter	Result MCI POI MDI	Units Method Analyzed Applyet Ish Ratch	Comment
Lab Number: 72881	Matrix: Other	Collected By: MV	
Sample Description: Lot 25 -		Sample Date: 11/16/17	

MERCURY 7439-97-6 0.00399 0.200 0.0050 mg/L Pass 7470A/1311 11/28/17 RHF a 7470A_171128



Parameter

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

Page 1 of 1

Comment

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:

Method

Patrick Miller, MS

QA Officer

Analyzed Analyst lab Batch

Sample Description: Lot 26 -Sample Date: 11/16/17 Lab Number: 72882 Matrix: Other Collected By: MV

MCL

Result

MERCURY 7439-97-6 0.00457 0.200 0.0050 mg/L Pass 7470A/1311 11/28/17 RHF a 7470A_171128

PQL

MDL

Units

CAS ID#



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

Page 1 of 1

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

CAS ID# Parameter	Result MCI POI MDI	Unite Method Analyzed Applies lab Ratch	Comment
Lab Number: 72883	Matrix: Other	Collected By: MV	
Sample Description: Lot 27 -		Sample Date: 11/16/17	

MERCURY 7439-97-6 0.00400 0.200 0.0050 mg/L Pass 7470A/1311 11/28/17 RHF a 7470A_171128



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

Page 1 of 1

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 Sample Date: 11/16/17
Lab Number: 72884 Matrix: Other 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_171128





Laboratory Fortified Blank

Reference Number: 17-33712

Report Date: 11/29/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
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.





Low-Level Lab Fortified Blank

Reference Number: 17-33712

Report Date: 11/29/17

			True			%	C	QC QC		
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits* C	Qualifier Type	Comment	
7470A 171128	1 MERCURY	0.00019	1 0.00020	0 ma/L	7470A	96	50-150	LLFB	MRL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Method Blank

Reference Number: 17-33712

Report Date: 11/29/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7470A 171128	0 MERCURY	ND		ma/L	7470A	0-0	MB	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





Quality Control Sample

Reference Number: 17-33712

Report Date: 11/29/17

			True			%		QC QC	
Batch	Analyte	Result	Value	Units	Method	Recove	ry Limits*	Qualifier Type	Comment
7470A 171128	0 MERCURY	0.00219	0.00228	ma/L	7470A	96	90-110	QCS	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-33712

Report Date: 11/29/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
Duplicat	te						
7470A_1711	28						
	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 a 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



Page 2 of 2

Reference Number: 17-33712 Report Date: 11/29/2017

Duplicate

			Spike	Spike	Spike		Percen	Recovery				QC		
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits*	%RPD	Limits*	Qualifier	Type	Comments
Laborat	Laboratory Fortified Matrix (MS)													
7470A_171	128													
	72868 MERCURY	0.00658	0.00835	0.00827	0.00167	7 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	

Sample Receipt requested (Must include FAX or Email) X dheffner@aspectconsulting.com sample results also to Dave Heffner, Relinquished By Sampled By: My 10 9 œ 0 5 ω Enter number of containers 4. Check off analysis to be performed Be specific in test requests. List each metal individually. Project Name: GP Hg Soil Treatment for each sample location. Report Email: mvonderahe@aspectconsulting.com Phone: 206-718-9548 Attn: MATTHEW VON DER AHE City. INSTRUCTIONS "PLEASE READ" Report To: ASPECT CONSULTING Address: CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS) Use one line per sample location LOT 25 **LOT 28** LOT 27 **LOT 26** Sample ID State: Fax: Location Zip: Date 21/2 Turn Around Time Required √ 3-day TAT, \$160 ea Emergency (Phone Call Required) Standard Time W - Water Half-Time (50% Surcharge) DW - Drinking Water * Sample Matrix Phone: Card: S S S S Sample Matrix (See Below) Card# Phone: 2067807722 City: Bainbridge Island Bill To: Accounts Payable, Aspect Consulting Billing Email: accountspayable@aspectconsulting.com Address 350 Madison Ave N Received By VISA Grab or Composite 0 0 0 C M/C GW - Ground Water SW - Surface Water 11/16 11/16 11/16 11/16 Date P.O.#: 070188-27 State: WA Expires: 17:30 17:00 15:00 13:00 Time Zip: 98110 S - Soil WW - Wastewater TCLP (1311)/ Hg (7470A) 8.8 DOC/12/11 Date CHECK REGULATORY PROGRAM Other Clean Water Act ☐RCRA / CERCLA Safe Drinking Water Act Other OL - OI Time Analysis Requested Email: Chain Of Custody & Labels Agree Samples Received Intact Evidence Of Cooling Sample Temp 20,8 C Satisfactory Custody Seals Intact 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070 Microbiology (888-725-1212) 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225 20332 Empire Ave. Suite F4 Bend, OR 97703 Main Lab (800-755-9295) 1620 South Walnut St. Burlington, WA 98233 ANALYTICAL 540 SW 3rd St. Corvallis, OR 97333 Corvallis Lab (541-753-4946) Portland Lab (503-682-7802) Bend Lab (541-639-8425) 4 **Number Of Containers** ■ Total Containers Special Instruction/ Conditions on Receipt X X Yes K NA X

APPENDIX D

Summary Table and Laboratory Reports, Perimeter Air Monitoring

Table D-1 - Summary of Sorbent Trap Perimeter Air Monitoring ResultsProject No. 070188, Mercury Soil Treatment and Disposal Project, Bellingham, Washington

Perimeter	Sorbent Trap	Air Volume			Calculated
Sample	Deployment	Pumped through	Laboratory	Hg Mass in	[Hg] in Air ²
Station	Date ¹	Trap (L)	Sample ID	Trap (ng)	(µg/m3)
A	10/13/2017	1,375	1742031-01	2.00 U	0.001 U
В	10/13/2017	1,379	1742031-01	2.44 J	0.001 J
C	10/13/2017	1,579	1742031-02	2.44 J	0.002 3
D	10/13/2017				
A	10/13/2017	1,361	1742031-05	2.20 J	0.002 J
В	10/14/2017	1,362	1742031-05	2.56 J	0.002 J 0.002 J
С		1,362	1742031-06	2.56 J 2.00 U	0.002 J 0.001 U
D	10/14/2017	'			0.001 U 0.002 J
A	10/14/2017	1,353	1742031-08	2.17 J 2.00 U	
В	10/17/2017 10/17/2017	1,445 1,445	1742068-01	2.00 U 2.19 J	0.001 U 0.002 J
С		· ·	1742068-02		
D	10/17/2017	1,443	1742068-03	3.60 J	0.002 J
	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
В	10/18/2017	1,388	1742068-06	2.00 U	0.001 U
С	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
В	10/19/2017	1,332	1743033-02	3.74 J	0.003 J
С	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
В	10/20/2017	960	1743033-06	2.00 U	0.002 U
С	10/20/2017	960	1743033-07	70.3	0.073
D	10/20/2017	960	1743033-08	3.81 J	0.004 J
Α	10/31/2017	1,296	1744035-01	5.33 J	0.004 J
В	10/31/2017	1,353	1744035-02	5.97 J	0.004 J
С	10/31/2017	1,203	1744035-03	87.6	0.073
D	10/31/2017	1,341	1744035-04	30.8	0.023
Α	11/1/2017	1,494	1744051-01	2.00 U	0.001 U
В	11/1/2017	1,438	1744051-02	4.51 J	0.003 J
С	11/1/2017	1,444	1744051-03	146	0.101
D	11/1/2017	1,450	1744051-04	4.66 J	0.003 J
Α	11/2/2017	1,394	1745007-01	2.12 J	0.002 J
В	11/2/2017				
С	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
Α	11/3/2017	1,430	1745007-04	3.96 J	0.003 J
В	11/3/2017	682	1745007-05	39.3	0.058
С	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
Α	11/6/2017	1,492	1745017-01	22.6	0.015
В	11/6/2017	1,495	1745017-02	49.1	0.033
С	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
Α	11/7/2017	1,420	1745031-01	31	0.022
В	11/7/2017	1,421	1745031-02	157	0.110
С	11/7/2017		1745031-03	27.5	
D	11/7/2017	1,421	1745031-04	15.10	0.011
Α	11/8/2017	1,426	1745053-01	15.4	0.011
В	11/8/2017	1,434	1745053-02	131	0.091
С	11/8/2017	1,437	1745053-03	36.8	0.026

Table D-1

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

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

Perimeter	Sorbent Trap	Air Volume			Calculated
Sample	Deployment	Pumped through	Laboratory	Hg Mass in	[Hg] in Air²
Station	Date ¹	Trap (L)	Sample ID	Trap (ng)	(µg/m3)
D	11/8/2017	1,442	1745053-04	7.98	0.006
Α	11/9/2017	1,455	1746002-01	6.36	0.004
В	11/9/2017	1,448	1746002-02	33.0	0.023
С	11/9/2017	1,450	1746002-03	57.3	0.040
D	11/9/2017				
Α	11/10/2017	1,571	1746005-01	11.9	0.008
В	11/10/2017	1,558	1746005-02	80.6	0.052
С	11/10/2017	1,551	1746005-03	163	0.105
D	11/10/2017	1,542	1746005-04	54.3	0.035
Α	11/13/2017	1,423	1746015-01	2.00 U	0.001 U
В	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
В	11/14/2017	1,404	1746040-02	2.15 J	0.002 J
С	11/14/2017	1,400	1746040-03	64.1	0.046
D	11/14/2017	818	1746040-04	3.96 J	0.005 J
Α	11/15/2017	1,403	1746062-01	2.00 U	0.001 U
В	11/15/2017	1,406	1746062-02		
С	11/15/2017	1,407	1746062-03	130	0.092
D	11/15/2017	803	1746062-04	3.97 J	0.005 J
Α	11/16/2017	1,426	1747001-01	9.72	0.007
В	11/16/2017	1,427	1747001-02	14.7	0.010
С	11/16/2017	1,424	1747001-03	165	0.116
D	11/16/2017	1,423	1747001-04	9.40	0.007
Α	11/17/2017	1,591	1747013-01	12.0	0.008
В	11/17/2017	1,579	1747013-02	18.9	0.012
С	11/17/2017	1,580	1747013-03	167	0.106
D	11/17/2017	1,579	1747013-04	15.6	0.010
Α	11/20/2017	1,482	1747021-01	8.19	0.006
В	11/20/2017	1,489	1747021-02	38.0	0.026
С	11/20/2017	1,486	1747021-03	51.7	0.035
D A	11/20/2017	1,490	1747021-04	15.1	0.010
A B	11/21/2017	1,388	1748005-01	14.4	0.010
C	11/21/2017 11/21/2017	1,389 709	1748005-02 1748005-03	26.8 33.3	0.019 0.047
D	11/21/2017	709 1,385	1748005-03	33.3 25.1	0.047
A	11/27/2017	1,429	1748003-04	6.41	0.018
В	11/27/2017	1,429	1748021-01	9.07	0.004
C	11/27/2017	1,416	1748021-02	60	0.042
D	11/27/2017	1,384	1748021-03	6.98	0.005
_	nlo tran ar air numn		voic performed	0.00	0.000

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

µg/m3 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.

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,

Lydia Greaves

Client Services Manager Lydia@brooksapplied.com **Project ID:** ASO-SE1701 **PM:** Lydia Greaves



BAL Report 1742031 Client PM: Matthew von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.

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



BAL Report 1742031 Client PM: Matthew von der Ahe

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
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

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

BAL Report 1742031 Client PM: Matthew von der Ahe

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



Sample Results

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

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



BAL Report 1742031

Client PM: Matthew von der Ahe

Accuracy & Precision Summary

Batch: B172846

Lab Matrix: IC Trap /per

Method: EPA 324/1631 Manual

Sample B172846-BS1	Analyte N Blank Spike, (1718019)	ative	Spike	Result	Units	REC & Limits	RPD & Limits
B172040-B31	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	

Project ID: ASO-SE1701 PM: Lydia Greaves



BAL Report 1742031 Client PM: Matthew von der Ahe

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

Average: 2.034 Standard Deviation: 0.428 MDL: 2.00

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



BAL Report 1742031 Client PM: Matthew von der Ahe

Sample Containers

Lab ID: 1742031-01 Report Matrix: Air Collected: 10/14/2017 **Sample:** A-20171014 Received: 10/18/2017 Sample Type: Sample **Des Container** Size Lot **Preservation Pres-Lot** pН Ship. Cont. Client-Provided - Hg n/a n/a none n/a n/a Envelope

Lab ID: 1742031-02 Report Matrix: Air Collected: 10/14/2017 Sample: B-20171014 Sample Type: Sample Received: 10/18/2017 **Des Container** Size Lot **Preservation Pres-Lot** pН Ship. Cont. Client-Provided - Ha n/a n/a none n/a n/a Envelope

 Lab ID: 1742031-03
 Report Matrix: Air
 Collected: 10/14/2017

 Sample: C-20171014
 Sample Type: Sample
 Received: 10/18/2017

Comments: Client labeled two samples with this sample name.

Des ContainerSizeLotPreservationPres-LotpHShip. Cont.A Client-Provided - Hgn/an/anonen/aEnvelope

 Lab ID: 1742031-04
 Report Matrix: Air
 Collected: 10/14/2017

 Sample: D-20171014
 Sample Type: Sample
 Received: 10/18/2017

Comments: This sample was missing.

Des ContainerSizeLotPreservationPres-LotpHShip. Cont.A Client-Provided - Hgn/an/anonen/an/aEnvelope

Lab ID: 1742031-05 Report Matrix: Air Collected: 10/15/2017 **Sample:** A-20171015 Sample Type: Sample Received: 10/18/2017 **Preservation Des Container** Size Lot **Pres-Lot** Hq Ship. Cont. Client-Provided - Hg n/a n/a none n/a n/a Envelope

Lab ID: 1742031-06 Collected: 10/15/2017 Report Matrix: Air **Sample:** B-20171015 Sample Type: Sample Received: 10/18/2017 **Des Container** Size Lot **Preservation Pres-Lot** pН Ship. Cont. 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

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

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

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



Contact: Maffrey Client Project ID:

Samples Collected By:

Chain-of-Custody Form

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

Phone: 2

PO Number: 070(88-27

Email: myonderahela)aspe

Received by:	For BAL use only Date:	H BAL Report 1742031
Work Order ID:	Time:	9:30
Project ID:		
Mailing Address:		
Email Receipt Confi BAL PM:	rmation? (Yes/No)	

Requested TAT	c	Collection Client Sample Info				e Info				ВА	L Anal	yses F	Require	ed		Comments
(business days)					w				_			ę.			1 1	
20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	רמום	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	Specify Here
1 A-201710 14	10/1	14	12:49	air)	7	nanz	×								Opechy Fiere
2 B-20171014	1	•	12:59	1	1	i	1	×								
3 C-7017-10+4 LCG 10/20	/17		B:18		1			X								
4 P-20171014- LCG 10/29	9/17		13:12				9	X								
	10/1	5	13:43	_1	1			×								
6 B-20171015		50	13:52		_!_			×								
7 (-20171015	_		13:59		<u> </u>		1	X								
8 D-20171015	1		14:01		1			X								
9															-	
10							1								-	
Trip Blank																
Relinquished By: M√	į	Date	:10/17	Time:	0:00	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:		Date	ů	Time:		То	tal Nur	mber o	f Pack	ages:						

age	of	List Hazardous Contaminants:
W.3.44 (80)		

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,

Lydia Greaves

Client Services Manager Lydia@brooksapplied.com

Lydia Dreoves

BAL Report 1742068

Client PM: Matthew Von der Ahe

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



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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.

BAL Report 1742068 Client PM: Matthew Von der Ahe

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



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
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

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

BAL Report 1742068

Client PM: Matthew Von der Ahe

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



Sample Results

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

BAL Report 1742068

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B172846

Lab Matrix: IC Trap /per

Method: EPA 324/1631 Manual

Sample B172846-BS1	Analyte Na Blank Spike, (1718019)	ative	Spike	Result	Units	REC & Limits	RPD & Limits
B172040-B31	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	

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



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

Average: 2.034 Standard Deviation: 0.428 MDL: 2.00

Limit: 4.000 Limit: 1.333 MRL: 6.00



BAL Report 1742068 Client PM: Matthew Von der Ahe

Sample Containers

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



BAL Report 1742068 Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 1742068-07 Collected: 10/19/2017 Report Matrix: Air **Sample:** C-20171019 Received: 10/20/2017 Sample Type: Sample **Des Container** Size **Preservation Pres-Lot** Ship. Cont. Lot pН Client-Provided - Hg n/a n/a none n/a Envelope 2

Lab ID: 1742068-08 Collected: 10/19/2017 Report Matrix: Air **Sample:** D-20171019 Sample Type: Sample Received: 10/20/2017 **Des Container** Size Lot **Preservation Pres-Lot** pН Ship. Cont. Client-Provided - Ha n/a n/a none n/a Envelope 2

Shipping Containers

Envelope 1

Received: October 20, 2017 9:00 Tracking No: 770534353742 via FedEx

Coolant Type: None Temperature: ambient

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

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

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

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



Client Project ID: 07018K-27

Samples Collected By:

Chain-of-Custody Form

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

> PO Number: 070188-27 Phone: 706 -718- 9548

Email: myorderaheles aspect-

Received by:	use only Date: 10/20/17
Work Order ID: 174206	8 Time: 9:00
Project ID:	
Mailing Address:	
Email Receipt Confirmation? BAL PM:	(Yes/No)

samples@brooksapplied.com | brooksapplied.com

BAL Report 1742068

Requested TAT	Collection Client Sample Info				BAL Analyses Required					Comments					
(business days)				ပ္		1		_			uw u				
☐ 20 (standard) ☐ 15* ☐ 10* ☐ 5* ☐ Other			Туре	Number of Containers	Field Filtered? (Yes/No)	vation Type	lg, EPA 1631	Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) Inorg, III, V, MMA, DMA	ecies (specify) e(VI), SeCN, Uknown	uc	Other (specify)	Other (specify)	
*Surcharges may apply to expedited TATs Sample ID	Date	Time	Matrix Type	Numbe	Field F (Yes/N	Preservation HCI /HNO ₃ /Other	Total Hg,	Methyl Hg,	ICP-MS N (specify)	As Spe Inorg, III,	Se Species Se(IV), Se(VI), S	Filtration	Other	Other	Specify Here
1 A-2017 10 19	10/19	10:32	air		1	1	×						16		
2 B-20/7/019	_1	10:43	-1)	λ							-	
3 C-20171019		10:51	_	+!			メ メ								
4 p-2017/019		11:00	-	1										-	
6															
7													l magazini		
8															
9														-	
10						- 1									
Trip Blank															<u> </u>
Relinquished By: MV	Date	e: 10/19	Time:	16:00	D Relinquished By:				Date:			Time:			
Received By:	Date	e:	Time:		To	tal Nu	mber c	of Pac	kages:						u ⁽¹⁾
Page of List Ha	azardous	Contarr	ninants:		•	1						comp	les@br/	ookeannlie	ed.com l.brooksapplied.com



Chain-of-Custody Form

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

> PO Number: 070188-27 Phone: 206-718-9548

Received by:	only	BAL Report 1742068
Work Order ID: 1742068	Time:	9:00
Project ID:		
Mailing Address:		

Client Project ID: Samples Collected By:	M		_ Email: ,	wyand	eaher	Cospe (ct. Com	E	Email R	leceipt I	Confir	matio	n? ((YesyNo))
Requested TAT	Collec	tion		ent Sampl							yses F	of the Paris of the			Comments
(business days)				v		1					u,			1 1	3.00
□ 20 (standard) □ 15* □ 10* □ 5* □ Other *Surcharges may apply to expedited TATs Sample ID 1 A-7017 1018 2 B-7017 1018 3 C-7017 1018 4 D-7017 (018 5 6 7	1) 8/14	10:29 10:38 10:49 10:54	→ → Matrix Type	Number of Container	Field Filtered? (Yes/No)	Preservation Type	XXX 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, UKnown	Filtration	Other (specify)	Other (specify)	Specify Here
8														-	
10															
Trip Blank			•												
Relinquished By: Mnfugh	∠ Date	=:10K	7 Time:	16:00	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:	Date	e: (Time:		То	tal Nur	al Number of Packages:								
Pageof List Hazardous Contaminants: samples@brooksapplied.com 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.

Lydia Greaves

Client Services Manager

Lydia Greoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1743033

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1743033

Client PM: Matthew Von der Ahe

Sample Information

Sample	Lab ID	Report Matrix	Туре	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
A-20171020 1743033-01	Hg	Air	AR	3.57	J	2.00	6.00	ng/trap	B172901	1701344
B-20171020 1743033-02	Hg	Air	AR	3.74	J	2.00	6.00	ng/trap	B172901	1701344
C-20171020 1743033-03	Hg	Air	AR	38.8		2.00	6.00	ng/trap	B172901	1701344
D-20171020 1743033-04	Hg	Air	AR	6.56		2.00	6.00	ng/trap	B172901	1701344
A-20171021 1743033-05	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172901	1701344
B-20171021 1743033-06	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172901	1701344
C-20171021 1743033-07	Hg	Air	AR	70.3		2.00	6.00	ng/trap	B172901	1701344
D-20171021 1743033-08	Hg	Air	AR	3.81	J	2.00	6.00	ng/trap	B172901	1701344

BAL REPORT 1743033

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B172901

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

Sample B172901-BS1	Analyte	Native	Spike Result		Units	REC & Limits	RPD & Limits
B172901-B31	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

 Average: 0.693
 Standard Deviation: 0.049
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1743033-01 Sample: A-20171020 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/20/2017 Received: 10/25/2017 pH Ship. Cont. Envelope
Lab ID: 1743033-02 Sample: B-20171020 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/20/2017 Received: 10/25/2017 pH Ship. Cont. Envelope
Lab ID: 1743033-03 Sample: C-20171020 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/20/2017 Received: 10/25/2017 pH Ship. Cont. Envelope
Lab ID: 1743033-04 Sample: D-20171020 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/20/2017 Received: 10/25/2017 pH Ship. Cont. Envelope
Lab ID: 1743033-05 Sample: A-20171021 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/21/2017 Received: 10/25/2017 pH Ship. Cont. Envelope
Lab ID: 1743033-06 Sample: B-20171021 Des Container A IC Trap	Size	-	port Matrix: Air nple Type: Sample Preservation none	P-Lot	Collected: 10/21/2017 Received: 10/25/2017 pH Ship. Cont. Envelope



BAL REPORT 1743033

Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 1743033-07 Report Matrix: Air Collected: 10/21/2017 Sample: C-20171021 Received: 10/25/2017 Sample Type: Sample P-Lot **Des Container Size** Ship. Cont. Lot **Preservation** pН IC Trap Envelope na none

Lab ID: 1743033-08 Report Matrix: Air Collected: 10/21/2017 Sample: D-20171021 Received: 10/25/2017 Sample Type: Sample P-Lot **Des Container** Size **Preservation** Ship. Cont. Lot pН IC Trap Envelope na none

Shipping Containers

Envelope

Received: October 25, 2017 9:30

Description: Envelope
Tracking No: 770572949931 via FedEx

Damaged in transit? No

Coolant Type: None Temperature: ambient Description:EnvelopeCustody seals present?NoDamaged in transit?NoCustody seals intact?NoReturned to client?NoCOC present?Yes



Chain-of-Custody Form

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

Received by: Au	For BAL use	BAL REPO only — Date:	ORT 1743033
Work Order ID: 17		Time:	0930
Project ID: AS0 - S	E 1701		

Client: ASPECT Contact: Matthew Volveler Client Project ID: 070/68- Samples Collected By:	rAhe 27 MV	PO Numbe Phone: Email: ஸூ	er: 0	70181 ahead	spect	7 consult	in cont	Mailing Fmail R BAL PM	Addre eceipt	ss: Confir	matio	n?	(Ye)/No)
Requested TAT (business days)	Collection		Sample							yses F				Comments
20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs Sample ID 1 A -20171020 2 B -20171020 4 D -20171020	# # # # # # # # # # # # # # # # # # #	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation-Type HCI /HNO₃/Other	XXXXXX 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, Uknown	Filtration	Other (specify)	Other (specify)	Specify Here
Relinquished By: MV	Date: 10/23	Time:/6	:30	Rel	inquisl	hed By	/ :				Da	ate:		Time:
Received By:	Date:	Time:		Tot	al Nun	nber o	f Pack	ages:						

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,

Lydia Greaves

Client Services Manager

Lydia Dreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1744035

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1744035

Client PM: Matthew Von der Ahe

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
A - 20171101 1744035-01	Hg	Air	AR	5.33	J	2.00	6.00	ng/trap	B172999	1701378
B - 20171101 1744035-02	Hg	Air	AR	5.97	J	2.00	6.00	ng/trap	B172999	1701378
C - 20171101 1744035-03	Hg	Air	AR	87.6		2.00	6.00	ng/trap	B172999	1701378
D - 20171101 1744035-04	Hg	Air	AR	30.8		2.00	6.00	ng/trap	B172999	1701378

BAL REPORT 1744035

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B172999

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

Sample Analyte B172999-BS1 Blank Spike. (1718019		Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172999-B31	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

 Average: 0.358
 Standard Deviation: 0.106
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00

BAL REPORT 1744035 Client PM: Matthew Von der Ahe



Sample Containers

	D: 1744035-01 ple: A - 20171101			Report Matrix: Air Sample Type: Sample			cted: 11/01/2017 ived: 11/02/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a	none			Envelope
	D : 1744035-02			Report Matrix: Air			cted: 11/01/2017
	ple: B - 20171101			Sample Type: Sample			ived: 11/02/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a	none			Envelope
	D : 1744035-03 ple: C - 20171101			Report Matrix: Air			cted: 11/01/2017
Des	Container	Size	Lot	Sample Type: Sample Preservation	P-Lot	pH	Ship. Cont.
A	IC Trap	n/a	n/a	none	1 -200	рп	Envelope
	D : 1744035-04			Report Matrix: Air		Collec	cted: 11/01/2017
-	ple: D - 20171101			Sample Type: Sample			ived: 11/02/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a	none			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



Client: Aspect Consulturg

Chain-of-Custody Form

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

PO Number: 670186-27

Received by: _	SEC For BAL use	BAL REP e only — Date:	11/2/17
Work Order ID:	1744035	Time:	0930
Project ID:			

Contact: Mathew Vinder Client Project ID: 670186- Samples Collected By:	-27		En	none: j nail: m	vonde	rahe (a	548 aspect ea.re	consult	O V	Email R BAL PM	teceipt 1:	Confir	matio	n? (Yes/No	
Requested TAT	Collec	tion		Clien	t Sampl	e Info				ВА	L Anal	yses F	Requir	ed		Comments
(business days)					ဖွ				0		7	wn		18		
□ 20 (standard) □ 15* □ 10* ✓ 5* □ Other	18.4			Гуре	Number of Containe	Field Filtered? (Yes/No)	Preservation Type HCl /HNO₃/Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species <i>(specify)</i> InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	u	Other (specify)	Other (specify)	
*Surcharges may apply to expedited TATs	ற	e e		Matrix Type	mbeı	ld Fil	Serv /HNO	al H	thyll	-MS ecify	Spec g, III, 1	Spe.	Filtration	ier (s	ler (s	
Sample ID	Date	Time		Μa	N	Fie	Pre	Tot	Me	고 양	As	Se(I	Ħ	ot	\$	Specify Here
1 A-20176101	11/1/7017	06 11	_Ai	r	1			×				2				
2 B-70171101	il —	0914			1											
3 (-20171101		0924	-)			×						-		N .
4 D-20171101 5		0942	₩		1	Ψ	V	7								
6																
7																
8																
9					8 5											
10			, in													
Trip Blank																
Relinquished By:	Date	e: 11/1/20	7	Time:	1530	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:	Date	1.7		Time:		To	tal Nun	nber o	f Pack	ages:						
Page of List Hazardous Contaminants: samples@brooksapplied.com 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 Lneoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1744051

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1744051

Client PM: Matthew Von der Ahe

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
A-20171102 1744051-01	Hg	Other	AR	≤ 2.00	U	2.00	6.00	ng/trap	B172999	1701378
B-20171102 1744051-02	Hg	Other	AR	4.51	J	2.00	6.00	ng/trap	B172999	1701378
C-20171102 1744051-03	Hg	Other	AR	146		2.00	6.00	ng/trap	B172999	1701378
D-20171102 1744051-04	Hg	Other	AR	4.66	J	2.00	6.00	ng/trap	B172999	1701378

BAL REPORT 1744051

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B172999

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

Sample B172999-BS1	Analyte Blank Spike, (1718019) Hg	Native	Spike	Result	Units	REC & Limits	RPD & Limits
			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

 Average: 0.358
 Standard Deviation: 0.106
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1744051-01 Sample: A-20171102				Report Matrix: Other Sample Type: Sample		Collected: 11/02/2017 Received: 11/03/2017		
Des Co	ontainer	Size L	Lot	Preservation	P-Lot	рН	Ship. Cont.	
A IC	CTrap	n/a n	n/a	none	n/a		Envelope	
	1744051-02			Report Matrix: Other			cted: 11/02/2017	
-	: B-20171102			Sample Type: Sample			ived: 11/03/2017	
	ontainer		Lot	Preservation	P-Lot	рН	Ship. Cont.	
A IC	C Trap	n/a n	n/a	none	n/a		Envelope	
	1744051-03 :: C-20171102			Report Matrix: Other Sample Type: Sample			cted: 11/02/2017 ived: 11/03/2017	
Des Co	ontainer	Size L	Lot	Preservation	P-Lot	рН	Ship. Cont.	
A IC	C Trap	n/a n	n/a	none	n/a		Envelope	
Lab ID:	1744051-04			Report Matrix: Other		Collec	cted: 11/02/2017	
Sample	: D-20171102			Sample Type: Sample		Recei	ived: 11/03/2017	
Des Co	ontainer	Size L	Lot	Preservation	P-Lot	рН	Ship. Cont.	
A IC	C Trap	n/a n	n/a	none	n/a		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

	1 - 5 - 5 - 5	BAL REP	ORT 1744051	
Received by:	Samon y	Date:	11/3/17	
Work Order ID:	Saucenty 1744051	Time:	0930	
Project ID:				

Client: Aspect Contact: Matthew Vonder Abo Client Project ID: Samples Collected By:		Phone: 206-718-9548 Email: mvondevalue@aspedsonsulting.co.Email Receipt Confirmation? (Yes/No) July @anthox (sea.com. BAL PM:)							
Requested TAT (business days)	Collec	tion	Clien	t Sampl	e Info				ВА	L Ana	lyses F	Require	ed		Comments
□ 20 (standard) □ 15* □ 10* ⋈ 5* □ Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCI/HNO ₃ /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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID	Ď	ΙĒ	Š	ž	iğ &	P S	7	Me	ICI (st	As	Se(Ē	 	है	Specify Here
1 A - 70171102 2 B-70171102 3 C - 20171102 4 D - 20171102 5 6 7 8 9 10 Trip Blank	Nozhari	930	Air	1 2	To assessment of the second	I	× × × × × × × × × × × × × × × × × × ×				V				
Relinquished By:	Date	11/2/2017	Time: 3	30 P	Rel	linquisl	ned By	1: 20	BAR	Willas	da	Da	te:		Time:
Received By: Date:			Time:						- 6		,				
Pageof List Haz	Total Hamber of Facilities.														

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,

Lydia Greaves

Client Services Manager Lydia@brooksapplied.com

Lydia Dreoves

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



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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.

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



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
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

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	IC Trap /per	EPA 324/1631 Manual	11/08/2017	11/09/2017	B173034	1701399

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



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
A-20171103 1745007-01	Hg	air	AR	2.12	J	2.00	6.00	ng/trap	B173034	1701399
C-20171103 1745007-02	Hg	air	AR	23.6		2.00	6.00	ng/trap	B173034	1701399
D-20171103 1745007-03	Hg	air	AR	2.56	J	2.00	6.00	ng/trap	B173034	1701399
A-20171104 1745007-04	Hg	air	AR	3.96	J	2.00	6.00	ng/trap	B173034	1701399
B-20171104 1745007-05	Hg	air	AR	39.3		2.00	6.00	ng/trap	B173034	1701399
C-20171104 1745007-06	Hg	air	AR	3.54	J	2.00	6.00	ng/trap	B173034	1701399
D-20171104 1745007-07	Hg	air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173034	1701399

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



Accuracy & Precision Summary

Batch: B173034

Lab Matrix: IC Trap /per

Method: EPA 324/1631 Manual

Sample B173034-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
D173034-D31	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	e) 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

Average: 0.418 Standard Deviation: 0.063 MDL: 2.00

Limit: 4.000 Limit: 1.333 MRL: 6.00

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



Sample Containers

Lab ID: 1745007-01 Sample: A-20171103 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/03/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-02 Sample: C-20171103 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/03/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-03 Sample: D-20171103 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/03/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-04 Sample: A-20171104 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/04/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-05 Sample: B-20171104 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/04/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-06 Sample: C-20171104 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/04/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1
Lab ID: 1745007-07 Sample: D-20171104 Des Container A IC Trap	Size	Lot	Report Matrix: air Sample Type: Sample Preservation none	P-Lot n/a	Collected: 11/04/2017 Received: 11/07/2017 pH Ship. Cont. Envelope #1

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



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



Client Project ID:

Chain-of-Custody Form

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

n-of-Custody Form	Received by: Mall Fbr BAL use or	nly Date:	BAL Report 1745007
<i>mples to:</i> Jorth Creek Parkway, Suite 100	Work Order ID:	Time:	(0:00
WA 98011	Project ID:		
PO Number: 670/88-27	Mailing Address:		

Samples Collected By: JA	1 + M	V	Linaii. _% <u>c</u>	ondera	he @	spectu	osulti	ng can	Email F BAL PN	receip	t Confii	matic	on? ((Yes)No	0)
Requested TAT (business days)	Colle	ction	Clie	ent Samp	le Info				ВА	L Ana	lyses F	Requir	ed		Comments
20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID 1 A - 2017 (104				Z	正と	P H		Š	5/8/	As	Se(Ē	ō	ŏ	Specify Here
2 B-2017 (104	"/4	0835	Air	1			λ								
3 6-20171104	-	0841		,			メ								
4 0-2017 1104	1	0836	1	/		-	X								
5		0050		-			^								
6															
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8															
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10															
Trip Blank															
Relinquished By: MV	Date	e: 11/4	Time:	11:00	Re	linquisl	hed By	/ :				Da	te:		Time:
Received By:	Date	e:	Time:		Tot	al Num	nber of	f Pack	ages:						- A managination of the last
Pageof List Hazardous Contaminants:samples@brooksapplied.com brooksapplied.com															



Chain-of-Custody Form

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

0, 0, 1		BAL Report 1745007
Received by: My for BAL use or	nly Date:	11/7/17
Work Order ID:	Time:	10:00
Project ID:		
Mailing Address:		

Client: Aspect Considerate: Mathew Lond Client Project ID: Samples Collected By: JA	ent Project ID:			PO Number: 070188-27 Phone: 206-718-9548 Email: myorderahlaggedforgultning icor Jallana anchorgea.com					a i com	Email Receipt Confirmation? (Yes/No)						
Requested TAT (business days)	Collect	tion		Clien	t Sampl	e Info				ВА	L Anal	yses F	Require	ed		Comments
20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	Time	Con son	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCI/HNO ₃ /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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID	۵	Ϊ́Ε	7/ 9	Σ	ž	道と	₽ 5	<u>L</u>	ž	5)	As	Se Se(宦	ō	5	Specify Here
1 A-20171103	11/3/2017	0834	A	ìr	1	7	M	×	0							
3 C - 20171163 4 D - 20171163 5 6 7 8 9 10		0652 0857	,		1	Office commonwers		* * *	2							Mot Submitted
Relinquished By:	Date	1166		Time: 1	2	, Re	linguiel	and R	···					Time		
Received By:	Date	11/3/20		Time:	2:009	Relinquished By: Dat Total Number of Packages:				ie.		Time:				
Page of List Hazardous Contaminants: samples@brooksapplied.com 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,

Lydia Greaves

Client Services Manager

Lydia Lreoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1745017

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1745017

Client PM: Matthew Von der Ahe

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
A-20171107 1745017-01	Hg	Air	AR	22.6		2.00	6.00	ng/trap	B173041	1701406
B-20171107 1745017-02	Hg	Air	AR	49.1		2.00	6.00	ng/trap	B173041	1701406
C-20171107 1745017-03	Hg	Air	AR	6.53		2.00	6.00	ng/trap	B173041	1701406
D-20171107 1745017-04	Hg	Air	AR	3.23	J	2.00	6.00	ng/trap	B173041	1701406

BAL REPORT 1745017

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173041

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

Sample B173041-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
	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

 Average: 1.035
 Standard Deviation: 0.143
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



BAL REPORT 1745017

Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 1745017-01 Sample: A-20171107			Report Matrix: Air Sample Type: Sample		Collected: 11/07/2017 Received: 11/08/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID : 1745017-02			Report Matrix: Air		Collected: 11/07/2017
Sample: B-20171107			Sample Type: Sample		Received: 11/08/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID: 1745017-03			Report Matrix: Air		Collected: 11/07/2017
Sample: C-20171107 Des Container	Size	Lat	Sample Type: Sample Preservation	P-Lot	Received: 11/08/2017
		Lot		P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID: 1745017-04			Report Matrix: Air		Collected: 11/07/2017
Sample: D-20171107			Sample Type: Sample		Received: 11/08/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		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

	• For BAL use o	BAL REF	AL REPORT 1745017				
Received by:	Selection of	_ Date:	118117				
Work Order ID:	1745017	Time:	9:30				
Project ID:							

Client: Aspect Consulting			PO Number: 070188-27 Mailing Address: 1665 Cornwell Maye												
Contact: Matthew vonder	Ahe		Phone:	206-	118-95	48			80		Be	llwah	nam V	UA 982	25
Client Project ID:			Email: MY	ondeval	elanson	ctconsu	uting.	con E	Email R	Receipt	Confir	matio	n? ((Yes/No)
Client Project ID: Samples Collected By:	IA		- Jal	1en@	uicher	gea.	com	E	BAL PN	1:					
Requested TAT (business days)	Collec	tion	Clier	nt Samp	le Info				ВА	L Ana	lyses F	Requir	ed		Comments
□ 20 (standard) □ 15* □ 10* ▷ 5* □ Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID						V - 1	NS		20	4 =	σσ		-		Specify Here
	11/7/2017	0911	Air	1	H	H	X						-	-	
2 B-20171107		6472		1		_	X							-	
3 C-20171107	-1.	0933					X						-	+	
4 D-20171107	V	6937	$-\psi$	- 1	V	V	X						-	-	
5														-	
6 7							150								
8	F-100 - 111 W													+	
9														-	
10														-	
Trip Blank														-	
			T and an		<u> </u>		0207 0 0 0 0 0 0 0 0 0 0					-			1
Relinquished By:	Date	: 11/7/201	7 Time:	2:00	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:	Date	e:	Time:		То	tal Nur	nber o	f Pack	kages:						
Page of List Ha	azardous	Contamir	nants:								/	samp	les@bro	ooksapplie	d.com 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,

Lydia Greaves

Client Services Manager Lydia@brooksapplied.com

Lydia Greoves

Misun Chun Data Manage

Data Management Specialist misun@brooksapplied.com



BAL Report 1745031

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL Report 1745031

Client PM: Matthew Von der Ahe

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
A-20171108 1745031-01	Hg	Air	AR	30.7		2.00	6.00	ng/trap	B173041	1701418
B-20171108 1745031-02	Hg	Air	AR	157		2.00	6.00	ng/trap	B173041	1701418
C-20171108 1745031-03	Hg	Air	AR	27.5		2.00	6.00	ng/trap	B173041	1701418
D-20171108 1745031-04	Hg	Air	AR	15.1		2.00	6.00	ng/trap	B173041	1701418

BAL Report 1745031

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173041

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

Sample B173041-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B173041-B31	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

 Average: 1.035
 Standard Deviation: 0.143
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



BAL Report 1745031

Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 17450 Sample: A-20			Report Matrix: Air Sample Type: Sample			cted: 11/08/2017 ived: 11/09/2017
Des Contair	er Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none			Envelope
Lab ID: 17450	· · · · -		Report Matrix: Air			cted: 11/08/2017
Sample: B-20			Sample Type: Sample			ived: 11/09/2017
Des Contair		Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none			Envelope
Lab ID: 17450 Sample: C-20			Report Matrix: Air			cted: 11/08/2017 ived: 11/09/2017
Des Contair		Lot	Sample Type: Sample Preservation	P-Lot	pH	Ship. Cont.
A IC Trap	n/a	n/a	none	1 200	pii	Envelope
Lab ID: 17450	031-04		Report Matrix: Air		Colle	cted: 11/08/2017
Sample: D-20	171108		Sample Type: Sample		Rece	ived: 11/09/2017
Des Contair	er Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none			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

PO Number: 670188-27

	Sur For BAL use only Date: (1911)						
Received by: _	Sidner	Date:	1119117				
Work Order ID:	1745031		0E:P				
Project ID:							

Mailing Address: 441 2nd Ave.

Contact: Mathew youngy Client Project ID: Samples Collected By:	192	Allen	Phone:	nuonder	11B-9E ahe@a aurhov	SELACO	isiHin	geos l	Email R BAL PM		Confi	rmatio	n? ((Yes/No	
Requested TAT	Collec	tion	Clie	nt Samp	le Info				ВА	L Ana	lyses F	Requir	ed		Comments
(business days) 20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	,2
Sample ID				Z	200000	7777		2	2 &	₹ 5	Sign	Щ	0	101	Specify Here
1 A-70171108 2 B-70171108	11/08/201		Air	1	M	H	×						-		
2 B-20171108 3 C-20171108	-	09:05		1			×								
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Received By:	Date	e:	Time:		То	tal Nun	nber o	f Pack	ages:						
Pageof List Ha	zardous	Contamin	ants:								-	samp	les@bro	ooksapplie	d.com 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 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 Lreones

Lydia@brooksapplied.com

Shahriyar Ahmed Project Coordinator

shahriyar@brooksapplied.com

Merligen alund:



BAL Report 1745053 Client PM: Matthew Von der Ahe

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

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
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BS	blank spike	NR	non-reportable
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CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	standard reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
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- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL Report 1745053 Client PM: Matthew Von der Ahe

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
A-20171109 1745053-01	Hg	Air	AR	15.4		2.00	6.00	ng/trap	B173091	1701418
B-20171109 1745053-02	Hg	Air	AR	131		2.00	6.00	ng/trap	B173091	1701418
C-20171109 1745053-03	Hg	Air	AR	36.8		2.00	6.00	ng/trap	B173091	1701418
D-20171109 1745053-04	Hg	Air	AR	7.98		2.00	6.00	ng/trap	B173091	1701418



BAL Report 1745053 Client PM: Matthew Von der Ahe

Accuracy & Precision Summary

Batch: B173091

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

Sample B173091-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
D1/3031-D31	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

 Average: 0.447
 Standard Deviation: 0.457
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



BAL Report 1745053 Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 1745053-01 Sample: A-20171109			Report Matrix: Air Sample Type: Sample		Collected: 11/09/2017 Received: 11/10/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID: 1745053-02			Report Matrix: Air		Collected: 11/09/2017
Sample: B-20171109			Sample Type: Sample		Received: 11/10/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID: 1745053-03			Report Matrix: Air		Collected: 11/09/2017
Sample: C-20171109 Des Container	Size	1.66	Sample Type: Sample Preservation	P-Lot	Received: 11/10/2017
		Lot		P-LOT	pH Ship. Cont.
A IC Trap	n/a	n/a	none		Envelope
Lab ID: 1745053-04			Report Matrix: Air		Collected: 11/09/2017
Sample: D-20171109			Sample Type: Sample		Received: 11/10/2017
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. Cont.
A IC Trap	n/a	n/a	none		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

Received by:	Salurer BAL use	only <i>Date:</i>	[1/0]11
Work Order ID:	1745053	Time:	4:30
Project ID:			

Client. ASpect (CHEICH			_ FO Numb		-			"	viaiiiig	Addie				5#201	
Contact: Mitthew upn de	y Alk		Phone:	206-	718-	1548					Se	attle	WA	9B1	SA
Client Project ID:			Email: 1/	Wonder	alwa as	pertran	cultures	com E	Email R	eceipt	Confir	matio	n? ((Yes/No	·)
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Sample ID	Date	Time	Σ	N N	Fie	Preservation Type HCl /HNO ₃ /Other	To	Me	ICP-MS Metals (specify)	As	Se Se(Ē	₹.		Specify Here
1 4-20171109	11/9/2017	08:56	AIr	1	N	Z	X								MAN SO ISSUES STORY
2 8-20171169	///	09:10		1			X								
3 C-20171109		09:21					X								
4 D-20171109	<u> </u>	09:32	V	1	1	1	X								
5															
6	11	-												-	
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Received By:	Dat	e:	Time:	=	То	tal Nur	nber o	t Pack	(ages:						
Page of List Ha	azardous	Contami	nants:				: .					samp	les@bro	ooksapplie	d.com 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 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

Lydia Lreones

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1746002

Client PM: Matthew Von der Ahe

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.

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CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	standard reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1746002 Client PM: Matthew Von der Ahe

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
A-20171110 1746002-01	Hg	Air	AR	6.36		2.00	6.00	ng/trap	B173091	1701418
B-20171110 1746002-02	Hg	Air	AR	33.0		2.00	6.00	ng/trap	B173091	1701418
C-20171110 1746002-03	Hg	Air	AR	57.3		2.00	6.00	ng/trap	B173091	1701418

BAL REPORT 1746002 Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173091

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

Sample Analyte B173091-BS1 Blank Spike. (1745		Native	Spike	Result	Units	REC & Limits	RPD & Limits		
B1/3091-B31	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

 Average: 0.447
 Standard Deviation: 0.457
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



BAL REPORT 1746002 Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 174 Sample: A				Report Matrix: Air Sample Type: Sample			cted: 11/10/2017 ived: 11/13/2017
Des Cont	tainer	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Tr	тар	n/a	n/a	none	n/a	n/a	Envelope
Lab ID: 17-				Report Matrix: Air Sample Type: Sample			cted: 11/10/2017
Des Cont		Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Tr	тар	n/a	n/a	none	n/a	n/a	Envelope
Lab ID: 176 Sample: C	-20171110			Report Matrix: Air Sample Type: Sample			cted: 11/10/2017 ived: 11/13/2017
Des Conf	tainer	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Tr	тар	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

Received by:	Wali	For BAL use only Haferman Date:	ORT 1746002
Work Order ID:		Time:	9:00
Project ID:			

Client: Aspect Consultant Contact: Matthew you day Client Project ID: Samples Collected By: Jew	And		PO Numb Phone: 71 Email: 121 Jal	06-7 vonder	18-9 ane@	548	neultin	y com	Email R	teceipt	Confir	Seath matio	e W	Yes/No	98104
Requested TAT (business days)	Collec	tion	Clien	t Sampl	e Info				ВА	L Anal	yses F	Requir	ed		Comments
□ 20 (standard) □ 15* □ 10* □ 5* □ Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID	ă			ž	× 1	도공	ř	Š	<u>೧</u> ⊗	AS OF	လ္က လ္က	正	ō	ō	Specify Here
1 A-2017 10 2 B-2017 10 3 C-2017 10 4 5 6 7 8 9 10 Trip Blank	11/10/2017	0/12/5	Air		I	7	X X	đ							
Relinquished By:	Date	1/10/2017	Time:	2:00	Re	linquis	hed By	/ :				Da	ıte:		Time:
Received By:	Date	1 1	Time:		Tot	tal Nun	nber o	f Pack	ages:						
Page of List Hazardous Contaminants: samples@brooksapplied.com 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 Lreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1746005

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1746005

Client PM: Matthew Von der Ahe

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
A-20171111 1746005-01	Hg	Air	AR	11.9		2.00	6.00	ng/trap	B173133	1701432
B-20171111 1746005-02	Hg	Air	AR	80.6		2.00	6.00	ng/trap	B173133	1701432
C-20171111 1746005-03	Hg	Air	AR	163		2.00	6.00	ng/trap	B173133	1701432
D-20171111 1746005-04	Hg	Air	AR	54.3		2.00	6.00	ng/trap	B173133	1701432

BAL REPORT 1746005

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173133

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

Sample B173133-BS1	Analyte Blank Spike, (1745009) Hg	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B1/3133-B31			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

 Average: 0.082
 Standard Deviation: 0.124
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1746005-01 Sample: A-20171111 Des Container Size		Lot	Report Matrix: Air Sample Type: Sample Preservation	P-Lot	Collected: 11/11/2017 Received: 11/14/2017 pH Ship. Cont.		
A	IC Trap	OIZE	Lot	none	n/a	рп	Envelope - 1746005
	ID: 1746005-02 ple: B-20171111			Report Matrix: Air Sample Type: Sample			cted: 11/11/2017 ived: 11/14/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap			none	n/a		Envelope - 1746005
	ID: 1746005-03 ple: C-20171111			Report Matrix: Air Sample Type: Sample			cted: 11/11/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap			none	n/a		Envelope - 1746005
	ID: 1746005-04 ple: D-20171111			Report Matrix: Air Sample Type: Sample			cted: 11/11/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap			none	n/a	-	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

Received by:	For BALASE ONLY Date:	PORT 1746005
Work Order ID:	Time:	9:30
Project ID:		

Contact: Mathew von der			Phone:						Seattle WA 98104						
Client Project ID:	TIVE							AND E	Email Receipt Confirmation? (Yes/No)						
Samples Collected By:	uniter A	Allen	10	Jen @	anchor	pla.co	mo		BAL PM				_		,
				100		0				Election of the	A Section of the section of	25 /2 (1)	7 to 10 to 10		
Requested TAT (business days)	Collec	tion	Clier	t Sampl	e Info				BA	L Ana	lyses F	Requir	ed		Comments
The state of the s				စ				o_			- w				
☐ 20 (standard) ☐ 15*				Number of Containers		Φ	331	Methyl Hg, EPA 1630		ify)	Sify)				
□ 10*				nta	۸.	Гур	1 1 9	Ϋ́	<u>v</u>	bed DW/	obec SN, L		2		
⊠ 5*			Φ	ပ္ထိ	ed,	on her	EPA 1631	<u>н</u>	eta	S (S	s (s		cify	cify	
Other			ξ	0	ilter 0)	vati	ğ,	Нg	N S	cie v, v	cie (V/)	<u>_</u>	spe	spe	
*Surcharges may apply to expedited TATs	Φ	Φ	Ä	nbe	d F S/N	Ser	표	.hy	-Ms	Spe	Spe //. Se	atic	er (er (
Sample ID	Date	Time	Matrix Type	N	Field Filtered? (Yes/No)	Preservation Type HCl /HNO₃/Other	Total Hg, I	Met	ICP-MS Metals (specify)	As Species (specify) Inorg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Specify Here
	11/11/2017	1139	Air	1	N	N	X			×	700.0070406.7	200000			Specify Here
2 8-2017/11	1777	1141	1)	1	1	X								
3 (-2017 111)		1146		i			4								
4 D-20171111	1	11401	1	Î	V	1	×								
5															
6															
7															
8								X							
10														-	
Trip Blank															
Relinquished By: \A	Date	11/11/2017	Time:	3:30	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:	Date	11	Time:	-		tal Nur	nber o	f Pack	ages:		5			10	
Page of List Ha	azardous	Contamina	nts:									samp	les@bro	ooksapplie	ed.com 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 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 Dreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1746015

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1746015

Client PM: Matthew Von der Ahe

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
A-20171114 1746015-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173133	1701432
B-20171114 1746015-02	Hg	Air	AR	6.57		2.00	6.00	ng/trap	B173133	1701432
C-20171114 1746015-03	Hg	Air	AR	75.9		2.00	6.00	ng/trap	B173133	1701432
D-20171114 1746015-04	Hg	Air	AR	2.09	J	2.00	6.00	ng/trap	B173133	1701432

BAL REPORT 1746015

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173133

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

Sample B173133-BS1	Analyte Blank Spike, (1745009) Hg	Native	Spike	Result	Units	REC & Limits	RPD & Limits	
			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

 Average: 0.082
 Standard Deviation: 0.124
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1746015-01 Sample: A-20171114 Des Container A IC Trap	Size L	.ot	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/14/2017 ved: 11/15/2017 Ship. Cont. envelope - 1746015
Lab ID: 1746015-02 Sample: B-20171114 Des Container A IC Trap	Size L	.ot	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/14/2017 ved: 11/15/2017 Ship. Cont. envelope - 1746015
Lab ID: 1746015-03 Sample: C-20171114 Des Container A IC Trap	Size L		Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/14/2017 ved: 11/15/2017 Ship. Cont. envelope - 1746015
Lab ID: 1746015-04 Sample: D-20171114 Des Container A IC Trap	Size L		Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/14/2017 ved: 11/15/2017 Ship. Cont. 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



Consulting

Client: Aspect

Contact: Matthew

Client Project ID:

Chain-of-Custody Form

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

PO Number: 070188-27

Phone: 200-118-9548

Received by: Mulifor BALLASe	BAL REP bate:	ORT 1746015	
Work Order ID:	Time:	10:00	
Project ID:			

S#201

(Yes/No)

98104

Mailing Address: 401

Email: Must evalue @aspect consulting, con Email Receipt Confirmation?

Samples Collected By: Jennifur Allen Jahen@anchorgea.com BAL PM:																
Requested TAT	Collec	ction		Client	Sampl	e Info				ВА	L Ana	lyses F	Requir	ed		Comments
(business days) 20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type		Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	Specify Here
Sample ID 1 A - 20171114	11/4/2017	_	Air		i	N	H	V								Specify Fiere
2 8-20171114	MAN	0916	1		¥	1	1	X						10		
3 C-20/7/1/4		0923			1			X								1
4 D-20171114	V	0937	1		1		1	X								
5						•										
6										154	93					
7											90					
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Relinquished By: Date: 11/14/1007 Time: 12:00 Relinquished By: Date: Time:																
Received By: Date: Time: Total Number of Packages:																
Pageof List Ha	azardous	Contar	inants:										samp	les@br	ooksapplie	ed.com brooksapplied.com
						I	Page 6 of	6								

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,

Lydia Greaves

Client Services Manager Lydia@brooksapplied.com

Lydia Dreoves

Project Coordinator betty@brooksapplied.com

Betty Vordahl

Belog Wall



BAL REPORT 1746040

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1746040

Client PM: Matthew Von der Ahe

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
A-20171115 1746040-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173157	1701452
B-20171115 1746040-02	Hg	Air	AR	2.15	J	2.00	6.00	ng/trap	B173157	1701452
C-20171115 1746040-03	Hg	Air	AR	64.1		2.00	6.00	ng/trap	B173157	1701452
D-20171115 1746040-04	Hg	Air	AR	3.96	J	2.00	6.00	ng/trap	B173157	1701452

BAL REPORT 1746040

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173157

Lab Matrix: IC Trap /per

Method: EPA 324/1631 Manual

Sample B173157-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B1/313/-B31	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	

BAL REPORT 1746040

Client PM: Matthew Von der Ahe

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



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

Average: 0.567 Standard Deviation: 0.487 MDL: 2.00

Limit: 4.000 Limit: 1.333 MRL: 6.00



Sample Containers

Lab ID: 1746040-01 Sample: A-20171115 Des Container A IC Trap	Size n/a	eport Matrix: Air ample Type: Sample Preservation none	P-Lot n/a	 cted: 11/15/2017 sived: 11/16/2017 Ship. Cont. Envelope - 1746040
Lab ID: 1746040-02 Sample: B-20171115 Des Container A IC Trap	Size n/a	eport Matrix: Air ample Type: Sample Preservation none	P-Lot n/a	 cted: 11/15/2017 sived: 11/16/2017 Ship. Cont. Envelope - 1746040
Lab ID: 1746040-03 Sample: C-20171115 Des Container A IC Trap	Size n/a	eport Matrix: Air ample Type: Sample Preservation none	P-Lot n/a	 cted: 11/15/2017 sived: 11/16/2017 Ship. Cont. Envelope - 1746040
Lab ID: 1746040-04 Sample: D-20171115 Des Container A IC Trap	Size n/a	eport Matrix: Air ample Type: Sample Preservation none	P-Lot n/a	cted: 11/15/2017 sived: 11/16/2017 Ship. Cont. 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

PO Number: 670198-27

Received by:	BAL REI	PORT 1746040
Received by: Julim VV	Date:	11/16/17
Work Order ID:	Time:	10:05
Project ID:		

Mailing Address: 401 2nd Ave SA

Contact: Mathew von dur A Client Project ID: Samples Collected By:		len	Email: 1/1	206-7 Vonderas	ne@asp	edrovs	alting	Е	Email R BAL PM					Yes/No	
Requested TAT (business days)	Collec	tion	Clie	nt Sample	e Info				ВА	L Anal	yses F	Requir	ed		Comments
20 (standard) 15* 10* 5* Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID		ΙĒ		Z	正と	<u>G</u> ∃	ĭ	Σ	0)	ž Š	လ္က လွ	证	0	0 1	Specify Here
1 A-20171115 2 B-20171115 3 C-20171115 4 D-20171115 5 6 7 8 9 10 Trip Blank	1/15/2017	0834 0651 0900 0909	Air	manuscript destricts extensively provided and the second s	Z and security	Constitution of the Consti	X								
Relinquished By:	Date	11/15/201	Time:	2:00 PM	Re	linquis	hed B	y:				Da	ate:		Time:
Received By:	Date	e:	Time:			tal Nur	nber o	f Pack	ages:			•			
Pageof List Ha															

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,

Lydia Greaves

Client Services Manager

Lydia Greoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1746062

Client PM: Matthew Von der Ahe

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

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CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	standard reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

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- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
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These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1746062 Client PM: Matthew Von der Ahe

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
A-20171116 1746062-01	Hg	Air	AR	≤ 2.00	U	2.00	6.00	ng/trap	B173157	1701452
C-20171116 1746062-02	Hg	Air	AR	130		2.00	6.00	ng/trap	B173157	1701452
D-20171116 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 B173157-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B1/313/-B31	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	

BAL REPORT 1746062 Client PM: Matthew Von der Ahe

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



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

Average: 0.567 Standard Deviation: 0.487 MDL: 2.00

Limit: 4.000 Limit: 1.333 MRL: 6.00



BAL REPORT 1746062

Client PM: Matthew Von der Ahe

Sample Containers

Lab ID: 1746062-01 Sample: A-20171116		-	ort Matrix: Air ple Type: Sample			cted: 11/16/2017 eived: 11/17/2017
Des Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none	n/a	n/a	Envelope - 1746062
Lab ID: 1746062-02 Sample: C-20171116		•	ort Matrix: Air			cted: 11/16/2017
Des Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none	n/a	n/a	Envelope - 1746062
Lab ID : 1746062-03 Sample : D-20171116		•	oort Matrix: Air nple Type: Sample			cted: 11/16/2017
Des Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
A IC Trap	n/a	n/a	none	n/a	n/a	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 REPO	ORT 1746062
Received by:	For BAL use only Mafemon Date:	F11F1111
Work Order ID:	Time:	9.30
Project ID:		
Mailing Address:	61 2nd Ave, S\$201	

Client: Aspect Consulting	PO Number: 070188-27 Mailing Address: 401 2 ^M Ave, S\$201 Von dev Ahe Phone: 206-718-9548 Email: myorkenhaeocopatrocultury.com Email Receipt Confirmation? (Yes/No) By: Jennifer Allen														
Contact: Matthew von der	Ane		Phone:	206-	718-	1548	iš				3	earth	e W	4 0	1804
Client Project ID:			Email: y	n vonde e	ahewa	coactro	ocutin	acon	Email R	eceipt	Confir	matio	n? ((Yes/No)
Samples Collected By:	unifer &	llen	,	allena	andio	Yaga	con	٥ F	BAL PM	l:					
20 32-0-0			J			U							k Stane de		
Requested TAT	Collec	tion	Clie	nt Sampl	e Info				BA	L Ana	yses F	Require	ed		Comments
(business days)											_				
20 (standard)				ers			_	30		2	(X)				1
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5* Other			96	် ည	e l	ion	굡	ш	lets	SS (), Se		ecit	ecit	
Other			Σ̈́	0	@ <u>∰</u>	vat 3,0	g,	_ £,	Z 03	cie v, /	ecie e(V)	드	sp	l sp(
*Surcharges may apply to expedited TATs	Φ	υ	·Ĕ	- de	₽ N N N	Ser	표	Ρ̈́	-Ms	Spe 7, 111,	Spe 7, S	atic	er (er (9
Sample ID	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type	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, Uknown	Filtration	Other (specify)	Other (specify)	0
		-		1	N	- 10 100									Specify Here
	11/14/2017	0811	Air	++-	17	N-	X								
2 C-20171116	-	0830		1		-	X								
3 1)-201116	V	0839	1	$\perp \perp$	V	- 1	×								
5														-	
6															
7															
8				 										1	
9															
10															
Trip Blank															
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Received By:	Date	э:	Time:		To	tal Nur	nber o	f Pack	ages:						(W)/
Page of List Ha															

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 20, 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.

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Sincerely,

Lydia Greaves

Client Services Manager

Lydia Lreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1747001

Client PM: Matthew Von der Ahe

Report Information

Laboratory Accreditation

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CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	standard reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

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(Effective 9/23/09)

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- **H** Holding time and/or preservation requirements not met. Result is estimated.
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- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1747001

Client PM: Matthew Von der Ahe

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
A-20171117 1747001-01	Hg	Air	AR	9.72		2.00	6.00	ng/trap	B173157	1701452
B-20171117 1747001-02	Hg	Air	AR	14.7		2.00	6.00	ng/trap	B173157	1701452
C-20171117 1747001-03	Hg	Air	AR	165		2.05	6.15	ng/trap	B173157	1701452
D-20171117 1747001-04	Hg	Air	AR	9.40		2.00	6.00	ng/trap	B173157	1701452

BAL REPORT 1747001

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173157

Lab Matrix: IC Trap /per

Method: EPA 324/1631 Manual

Sample B173157-BS1	Analyte Blank Spike, (1745009)	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B1/313/-B31	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	

BAL REPORT 1747001

Client PM: Matthew Von der Ahe

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



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
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B173157-BLK4	1.29	ng/trap

Average: 0.567 Standard Deviation: 0.487 MDL: 2.00

Limit: 4.000 Limit: 1.333 MRL: 6.00



Sample Containers

	ID: 1747001-01 ple: A-20171117			Report Matrix: Air Sample Type: Sample			cted: 11/17/2017 ived: 11/20/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a		none		Envelope - 1747001
	ID: 1747001-02 ple: B-20171117			Report Matrix: Air Sample Type: Sample			cted: 11/17/2017 ived: 11/20/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a		none		Envelope - 1747001
Sam	ID: 1747001-03 ple: C-20171117			Report Matrix: Air Sample Type: Sample		Rece	cted: 11/17/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a		none		Envelope - 1747001
	ID: 1747001-04 ple: D-20171117			Report Matrix: Air Sample Type: Sample			cted: 11/17/2017 ived: 11/20/2017
Des	Container	Size	Lot	Preservation	P-Lot	рН	Ship. Cont.
Α	IC Trap	n/a	n/a		none		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

	For DAL was	BAL REF	PORT 1747001
Received by:	dely	Date:	F11 15111
Work Order ID:	Livroly HE	Time:	9.36
Project ID:			
Mailing Address:	401 and Aug.	S #201	

Client: Aspect Consult		_ PO	PO Number: 070198-27 Mailing Address: 401 2nd Avx, \$ #201													
Contact: Matthew You der	Ahe		_ Pho	Phone: 206-718-9548 Seattle WH 98104												
Client Project ID:			Em	Email: mystativative of rest mysulting cam Email Receipt Confirmation? (Yes/No)												
Samples Collected By:	unifer :	Alken		Jalknoanthorgea.com BALPM:												
	ne-giro tuna			7			Ò			Hardware Con-	- Company	10 01 150		13/11/		
Requested TAT	Colle	ection		Clien	t Sampl	e Info				BA	L Anal	yses R	lequir	ed		Comments
(business days)					V-201									8		
☐ 20 (standard)					Number of Containers			-	30		Z	Se Species (specify) se(IV), se(VI), seCN, Uknown				
I □ 15*					tain.		Туре	1631	Methyl Hg, EPA 1630		ecif MA	ecit Uk				
□ 10*					on	<u>~</u>	Ļ	Ă	ΡĀ	as	Spe 4, DI	scv scv		3	3	
☐ 10* ☑ 5* ☐ Other			9	be	of C	Sie	tion	Total Hg, EPA	ъ́	/let	es (es (Other (specify)	Other (specify)	
□ Other	-		Ë	<u>~</u>	e.	Filte	vat 0³/0	Ъ,	Ĭ	S	ecie	ecio	on	ds)	ds)	
*Surcharges may apply to expedited TATs	<u>a</u>	မူ		Ĕ	φ	Id F	Ser	alF	thy	-M ecii	Sp.	Sp. (V. Sp.	rati	ē	<u>ğ</u>	
Sample ID	Date	Time	2	Matrix I ype	Ž	Field Filtered? (Yes/No)	Preservation T	Tot	₩	ICP-MS Metals (specify)	As Species <i>(specify)</i> InOrg, III, V, MMA, DMA	Se(I	Filtration	₹	†	Specify Here
1 A-2017 [1]7	11/17/2017	0809	Ai	t.e	1	N	N	V								Specify Here
2 8-70171117	7/1/2011	0818	7-11	UV.		1	1	\Diamond								
3 C-20171117		0825					\top	×								
4 D-70171117	V	0833		/	i	V	V	×								
5		000														
6																1
7																1
8																
9																
10																11
Trip Blank																
Relinquished By: 📈	Da	te: 11/17/2	017	Time:		Re	linquis	hed By	y:				Da	ite:		Time:
Received By:	Da	te:		Time:		То	tal Nun	nber o	f Pack	ages:	W					
Page of List Hazardous Contaminants: samples@brooksapplied.com 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,

Lydia Greaves

Client Services Manager

Lydia Greoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1747013

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1747013

Client PM: Matthew Von der Ahe

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
A-20171118 1747013-01	Hg	Air	AR	12.0		2.00	6.00	ng/trap	B173188	1701464
B-20171118 1747013-02	Hg	Air	AR	18.9		2.00	6.00	ng/trap	B173188	1701464
C-20171118 1747013-03	Hg	Air	AR	167		2.00	6.00	ng/trap	B173188	1701464
D-20171118 1747013-04	Hg	Air	AR	15.6		2.00	6.00	ng/trap	B173188	1701464

BAL REPORT 1747013

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173188

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

Sample B173188-BS1	Analyte Blank Spike, (1745009) Hg	Native	Spike	Result	Units	REC & Limits	RPD & Limits
			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

 Average: 0.136
 Standard Deviation: 0.035
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1747013-01 Sample: A-20171118 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot	Collected: 11/18/2017 Received: 11/21/2017 pH Ship. Cont. Envelope - 1747013
Lab ID: 1747013-02 Sample: B-20171118 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot	Collected: 11/18/2017 Received: 11/21/2017 pH Ship. Cont. Envelope - 1747013
Lab ID: 1747013-03 Sample: C-20171118 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot	Collected: 11/18/2017 Received: 11/21/2017 pH Ship. Cont. Envelope - 1747013
Lab ID: 1747013-04 Sample: D-20171118 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot	Collected: 11/18/2017 Received: 11/21/2017 pH Ship. Cont. 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



Client: Aspect Consulting

Chain-of-Custody Form

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

PO Number: <u>670188-27</u>

		BAL REPORT 1747013
Received by: _	Selvenz	only Date: 11121117
Work Order ID:	1747013	Time: 10 ; 15
Project ID:		
Mailing Addre	ss: 401 2nd Ave	, S#201

Contact: Matthew von de Client Project ID: Samples Collected By:			Phone: <u>/</u> Email: <u>///</u>	maeral	u@ast						Confir			Yes/No	98104
Requested TAT	Collec		7	t Sample		gent.			BAL PIV BA	TA HARDEN	lyses F	The second	ed	Kall (Comments
(business days) 20 (standard)				ners			Σ	930		Z)	fy) nown			1 1	The state of the s
☐ 15* ☐ 10* ☑ 5* ☐ Other			be	of Contair	red?	ion Type ther	EPA 1631	J, EPA 1(/letals	es (specil MMA, DMA	ss (specii), secn, uk		ecify)	ecify)	"11
Other *Surcharges may apply to expedited TATs Sample ID	Date	Lime	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation HCI /HNO ₃ /Other	Total Hg, I	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species <i>(specify)</i> InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	0 16 11
	11/18/2017	8	fir	-	N	N	X	_			0, 0,			0	Specify Here
TA ZOLLINIO	11/19/2011	1045	I/A	1	19	17	Ŷ								
2 B-20171118 3 C-20171118		1049		j			×								
4 D-201711 18	1	1055	1	1	V	1	X								
5	A	10.22	V	-	- 4		/-								
6															
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Relinquished By:	Date	: 11/18/2017	Time: 4	+:00 P1	M Re	linquis	hed By	/ :				Da	ite:		Time:
Received By:	Date	1 1	Time:		To	al Nun	nber of	f Pack	ages:			JII.			
Pageof List Hazardous Contaminants:samples@brooksapplied.com 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,

Lydia Greaves

Client Services Manager

Lydia Lreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Wall



BAL REPORT 1747021

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1747021

Client PM: Matthew Von der Ahe

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
A-20171121 1747021-01	Hg	air	AR	8.19		2.00	6.00	ng/trap	B173188	1701464
B-20171121 1747021-02	Hg	air	AR	38.0		2.00	6.00	ng/trap	B173188	1701464
C-20171121 1747021-03	Hg	air	AR	51.7		2.00	6.00	ng/trap	B173188	1701464
D-20171121 1747021-04	Hg	air	AR	15.1		2.00	6.00	ng/trap	B173188	1701464

BAL REPORT 1747021

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173188

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

Sample B173188-BS1	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
	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

 Average: 0.136
 Standard Deviation: 0.035
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1747021-01 Report Matrix: air Collected: 11/21/2017 Sample: A-20171121 Sample Type: Sample Received: 11/22/2017 **Des Container** Size Lot **Preservation** P-Lot Ship. Cont. IC Trap Envelope none n/a 1747021 Lab ID: 1747021-02 Collected: 11/21/2017 Report Matrix: air Sample: B-20171121 Sample Type: Sample Received: 11/22/2017 Preservation **Des Container** Size P-Lot Ship. Cont. Lot IC Trap none n/a Envelope -1747021 Lab ID: 1747021-03 Report Matrix: air Collected: 11/21/2017 Sample: C-20171121 Sample Type: Sample Received: 11/22/2017 **Des Container** P-Lot Size Lot **Preservation** рH Ship. Cont. IC Trap Envelope -Α none n/a 1747021 Lab ID: 1747021-04 Collected: 11/21/2017 Report Matrix: air Sample: D-20171121 Sample Type: Sample Received: 11/22/2017 **Des Container** Size Lot **Preservation** P-Lot Ship. Cont. pН IC Trap Α none n/a 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

Received by: Multor BALASS	BAL REPORT 1747021 e only Date: 1/22/7
Work Order ID:	Time: 9'.30
Project ID:	

Contact: Unthew vonder Alle Phone: 670188-27 Mailing Address: 401 2nd Ave S#201 Phone: 206-718-9548 Email: Mythdevaire aspectorsulting con Email Receipt Confirmation? (Yes)No) Samples Collected By: Junify Aller July Aller BAL PM:															
Requested TAT (business days)	Collect	ion	Clie	ent Sampl	e Info				ВА	L Anal	yses F	Require	ed		Comments
20 (standard) 15* 10* 5* Other	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCI/HNO ₃ /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, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID	۵	F	Σ	Z	正と	교	ř	Σ	<u>S</u>	ž Š	လ္က လ	正	0	0	Specify Here
1 A-20171124 2 B-20171124 3 C-20171121 4 D-20171121 5 6 7 8 9 10 Trip Blank	1/2/2017	08:3 08:44 08:51 08:58	Air		7		× × ×								
Relinquished By:	Date	: 11/21/	7017 Time:	1300	Re	linquis	hed By	y:				Da	ate:		Time:
Received By:	Date	: / /	Time:		To	tal Nun	nber o	f Pack	ages:						
Page of List Hazardous Contaminants: samples@brooksapplied.com 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.

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Sincerely.

Lydia Greaves

Client Services Manager

Lydia Dreoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1748005

Client PM: Matthew Von der Ahe

Report Information

Laboratory Accreditation

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BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	standard reference material
ICV	initial calibration verification	Т	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.



BAL REPORT 1748005

Client PM: Matthew Von der Ahe

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
A-20171122 1748005-01	Hg	air	AR	14.4		2.00	6.00	ng/trap	B173250	1701496
B-20171122 1748005-02	Hg	air	AR	26.8		2.00	6.00	ng/trap	B173250	1701496
C-20171122 1748005-03	Hg	air	AR	33.3		2.00	6.00	ng/trap	B173250	1701496
D-20171122 1748005-04	Hg	air	AR	25.1		2.00	6.00	ng/trap	B173250	1701496

BAL REPORT 1748005

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173250

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

Sample B173250-BS1	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
	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

 Average: 0.182
 Standard Deviation: 0.053
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00



Sample Containers

Lab ID: 1748005-01 Report Matrix: air Collected: 11/22/2017 Sample: A-20171122 Sample Type: Sample Received: 11/27/2017 **Des Container** Size Lot **Preservation** P-Lot Ship. Cont. IC Trap Envelope none n/a 1748005 Lab ID: 1748005-02 Collected: 11/22/2017 Report Matrix: air Sample: B-20171122 Sample Type: Sample Received: 11/27/2017 Preservation **Des Container** Size P-Lot Ship. Cont. Lot IC Trap none n/a Envelope -1748005 Lab ID: 1748005-03 Report Matrix: air Collected: 11/22/2017 **Sample:** C-20171122 Sample Type: Sample Received: 11/27/2017 **Des Container** P-Lot Size Lot **Preservation** рH Ship. Cont. IC Trap Envelope -Α none n/a 1748005 Lab ID: 1748005-04 Collected: 11/22/2017 Report Matrix: air **Sample:** D-20171122 Sample Type: Sample Received: 11/27/2017 **Des Container** Size Lot **Preservation** P-Lot Ship. Cont. pН IC Trap Α none n/a 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

PO Number: <u>070188-27</u>

Received by:	Mulli Fot BAL use of	BAL REF only <i>Date:</i>	PORT 1748005
Work Order ID:	L	Time:	+130 13:30
Project ID:			

Mailing Address: 40 2nd Ave, 5#201

Client Project ID: Samples Collected By:			Email: M	vondua	uhaans		suthing.	E	Email R BAL PM	eceipt	Confir	matio	n? (Yes/No	o r)
Requested TAT (business days)	Colle	ction	Client	Sample	e Info				ВА		yses F	Requir	ed		Comments
□ 20 (standard) □ 15* □ 10* ☒ 5* □ Other *Surcharges may apply to expedited TATs	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCI/HNO ₃ /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	s Species (specify) org, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	
Sample ID		- 10 march		z		10.00		2	2 %	A 8	တ တ	_ Ц	0	101	Specify Here
	1/22/2017		Ajr	<u> </u>	H	N	X							+	
2 B-20171122	-1	0754	+	-		+	X							+	
3 C-20171122 4 D-20171122	٠,,	0802 t806		-			×							-	
4 D-20171122 5		cece	W		W	4	/					V 47 - 27			
6															
7															
8															
9															
10		**													
Trip Blank															
Relinquished By:	Dat	te: 11/22/2017	Time: 12	L:WPH	Re	linquis	hed By	y:				Da	ate:		Time:
Received By:	Dat		Time:		То	tal Nun	nber o	f Pack	ages:						超
Pageof List Hazardous Contaminants: samples@brooksapplied.com 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,

Lydia Greaves

Client Services Manager

Lydia Dreoves

Lydia@brooksapplied.com

Betty Vordahl Project Coordinator betty@brooksapplied.com

Belog Wall



BAL REPORT 1748021

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.

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



BAL REPORT 1748021

Client PM: Matthew Von der Ahe

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
A-20171128 1748021-01	Hg	Air	AR	6.41		2.00	6.00	ng/trap	B173250	1701496
B-20171128 1748021-02	Hg	Air	AR	9.07		2.00	6.00	ng/trap	B173250	1701496
C-20171128 1748021-03	Hg	Air	AR	60.0		2.00	6.00	ng/trap	B173250	1701496
D-20171128 1748021-04	Hg	Air	AR	6.98		2.00	6.00	ng/trap	B173250	1701496

BAL REPORT 1748021

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173250

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

	Analyte	Native	Native Spike		Units	REC & Limits	RPD & Limits			
B173230-B31	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

 Average: 0.182
 Standard Deviation: 0.053
 MDL: 2.00

 Limit: 4.000
 Limit: 1.333
 MRL: 6.00

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



Sample Containers

Lab ID: 1748021-01 Sample: A-20171128 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/28/2017 vived: 11/29/2017 Ship. Cont. Envelope - 1748021
Lab ID: 1748021-02 Sample: B-20171128 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	 cted: 11/28/2017 sived: 11/29/2017 Ship. Cont. Envelope - 1748021
Lab ID: 1748021-03 Sample: C-20171128 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	cted: 11/28/2017 vived: 11/29/2017 Ship. Cont. Envelope - 1748021
Lab ID: 1748021-04 Sample: D-20171128 Des Container A IC Trap	Size n/a	Lot n/a	Report Matrix: Air Sample Type: Sample Preservation none	P-Lot n/a	cted: 11/28/2017 sived: 11/29/2017 Ship. Cont. 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

Received by: Hau	r BAL use only Date:	11129117
Work Order ID:	0	10:15
Project ID:		

Client: Aspect Consulting			PO Numb	er: 👩	70188	-27			Mailing	Addre	ss: 4al	240	Ave, S	S#201	
Contact: Matthew worder	Aue		Phone:	1.do-	118-95	548				*			WA		ţ-
	1		Email: 1/1	indere	shermas	ned co	eact tin	ara E	Email R	eceipt				Yes/No	·)
Samples Collected By:			\(Email: Mushkyah @asped cousulting-on Email Receipt Confirmation? (Yes/No)											
Requested TAT	Collect	tion	Client Sample Info				BAL Analyses Requ				ed		Comments		
(business days)														1 1	
□ 20 (standard) □ 15*				Number of Containers		be	Total Hg, EPA 1631	Methyl Hg, EPA 1630		As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown				
□ 10*				out	25	Preservation Type HCI/HNO₃/Other	A 1	ΕΡΑ	ICP-MS Metals (specify)	(spe A, DI	(Spe		15	150	
5* Other			/be	of O	Field Filtered? (Yes/No)	rtior Other	当	g, E	Met	MM	ies ///, S		Other (specify)	Other (specify)	
			Matrix Type	Je.	No)	SIV8	Hg	<u>マ</u>	AS ify))eci	Se(Filtration	ls)	(s)	
*Surcharges may apply to expedited TATs	Date	Time	atri	重	eld 'es/	ese 1/H	otal	eth	P-N	S Sp	S SI	Itra	the	l the	
Sample ID	ă	F	Σ	ž	近と	ĘΞ	I	Σ	<u>S</u>	A P	တ္က တိ	证	Ó	0 1	Specify Here
1 A-2011128	11/28/2017	0836	Ajv	1	И	N	X								
2 3-20171128		0839		i			X								The Control of the Co
3 C-20171128		1480				_	×								
4 P-20171128	- V	0845	4	-1-	Ų.	V	\times								
5															
6 7												5	1		5.
8															
9														4	
10										9					
Trip Blank															
Relinquished By: ১১	Date	: 11/28	Time:	12:00	Re	linquis	hed B	y:	0			Da	ate:		Time:
Received By:	Date	e:	Time:		То	tal Nur	nber o	f Pack	(ages:					1	1
Page of List Hazardous Contaminants: samples@brooksapplied.com brooksapplied.com															

APPENDIX E

Laboratory Report, Vapor-Phase Carbon



Portland, OR Microbiology/Chemistry (c) 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.780

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

Page 1 of 1

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 Collected By: Spencer Slominski Sample Comment: CAS ID# Parameter Result PQL MDL Comment Units DF Method Lab Analyzed Analyst Batch **MERCURY** 2.484 7439-97-6 0.0833 7471A 12/5/17 RHF 7471A_171205 mg/Kg 10.0







SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: 17-35203

Report Date: 12/06/17

			True			%		QC	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits*	Qualifier	Туре	Comment
7471A 171205	0 MERCURY	0.00205	0.00200	ma/L	7471A	103	85-115		CAL	

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.





SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 17-35203

Report Date: 12/06/17

			True			%			QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits*	Qualifier	Туре	Comment
7471A 171205 0	MERCURY	0.00200	0.00200	ma/l	7471A	100	85-115		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.







SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 17-35203

Report Date: 12/06/17

			True			%	QC QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits*	Qualifier Type	Comment
7471A 171205	0 MERCURY	ND		ma/L	7471A	0-0	MB	_

*Notation

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.



Reference Number: 17-35203

Report Date: 12/6/2017

Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

			Duplicate				QC	
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier	Type Comments
Duplicat	e							
7471A_17120	05							
	75842 MERCURY	2.484	0.654	mg/Kg	116.6	0-50	INH	DUP
TS_171205	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 a 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



Page 2 of 2

Reference Number: 17-35203 Report Date: 12/6/2017

Duplicate

			Spike	Spike	Spike	Percen	t Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc Units	MS	MSD	Limits*	%RPD	Limits*	Qualifie	r Type Comments
Labora	tory Fortified Matrix (MS)											
7471A_171	205											
	75842 MERCURY	2.484	4.170	0.373	0.0847 mg/K	g 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 a 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



Page 1 of 1

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

CHA	CHAIN OF CUSTODY / ANALYSIS REQUEST	TODY / A	VALY	SIS RE	GUES		ASE COM	PLETE AL	L APPLIC	(PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)	DED SECTI	ONS)		J	PAGE_	E OF	Ī
Report T	Report To: Span (4-	Slowing 4:		Billing Email:	nail:				-	7-3!	3520	3	ANA	ANALYTICAL			
Address:	Address: (5333 N	N (905) Strant	1 44	Bill To:					-	758	4 ₂)	000	Main	Lab (800-75	Main Lab (800-755-9295)	
City: R	City: Rodmand	State: WAZip:		Address					뙹	CHECK REGULATORY PROGRAM	ATORY PRO	GRAM	1020	Microb	Microbiology (888-725-1212)	ngton, WA 96233 725-1212)	
Attn: 5		No minish!		City:		State:		Zip:		Safe Drinking Water Act	ng Water A	t				acron AM	
Phone: 415-	0	348× - 2016-017	9+	Phone:		P.O.#:	.#:			Clean Water Act	er Act		NGINEER	ING/REM	ENGINEERING/REMEDIATION		
Report E	Report Email: Sprice, Stamish; (Deces	. Stomishill	2416	Card:	VISA	M/C	Expires:			JRCRA / CERCLA	RCLA		RESOURCES GROUP, INC.	S GROU	P, INC.		Dad
Project N	Project Name: PD 8	Mariary								Ollie			15222 NE 0041. C.			7	ENNG
INSTR	INSTRUCTIONS "PLEASE READ"	EASE READ"								Analysis	sis Reques		Redmond, WA 98052	VA 98052		Spencer Slominski, P.E. Regional Operations Manager	P.E.
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2. Be sp 3. List e	Be specific in test requests. List each metal individually. Check off analysis to be performed.	quests. dually.		Standard Half. Time	Standard Half-Time (50%, Surcharde)	narge)			11-ru			8	www.errg.com				
for eac 5. Enter	for each sample location. 5. Enter number of containers.	on. ainers.		Quickest (Unickest (100% Surcharge) Phone Emergency (Phone Call Required)	arge) Phone	Call Req.		1 / 41								Феггд.com
	Sample ID	Location		Sample	Grab	Da	te Time	<u>-</u>	01						qunN	Special Instruction/	
,		d		(See pac)	100	-		-]]		[[13	Conditions on Receipt	
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7 0															-	CONT	
n 4															9	A LU	
r u	,					-					ם כ						1
n w													םכ				
7																	
80																	
0																	
10																	7
Sample	Sampled By: Spaner	Slowing "		▼Phone:	::		Fax:				Email:				¥ —	Total Containers	
Sample Rec	Sample Receipt requested (Must include FAX or Email)	st include FAX or E	mail)	* Sampl	* Sample Matrix												
				W - Water	Į.	S- MS	SW - Surface Water		WW - Wastewater	0 - 0	,					Yes	N/A
				DW - Dri	DW - Drinking Water	GW - G	GW - Ground Water	S - Soil	-	Other	(d l boy	7	Custody	Custody Seals Intact	ಕ		
									1	-	_	3	Sample	Sample Temp 15.5	S C Satisfactory	actory	
Kelinguished By	hed by		Date () / / / /	I C' GZ	Received By	G	0.7		Date 1	11me			Evidence	Evidence Of Cooling	Đ.		
}	3			((,0)		4			17	919	10-		Samples Chain O	Samples Received Intact Chain Of Custody & Labe	Samples Received Intact Chain Of Custody & Labels Agree		
											100						1

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.

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,

Lydia Greaves Client Services Manager

Lydia Dreoves

Lydia@brooksapplied.com

Betty Vordahl
Project Coordinator
betty@brooksapplied.com

Belog Waenl



BAL REPORT 1750009

Client PM: Matthew Von der Ahe

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

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

Definition of Data Qualifiers

(Effective 9/23/09)

- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- **J-1** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- **N** Spike recovery was not within acceptance criteria. Result is estimated.
- **R** Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- **X** 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 <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010</u>. These supersede all previous qualifiers ever employed by BAL.

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



BAL REPORT 1750009

Client PM: Matthew Von der Ahe

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

AnalyteLab MatrixMethodPreparedAnalyzedBatchSequenceHgOtherEPA 1631 Appendix12/11/201712/12/2017B1733611701548

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



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
F750 1750009-01	Hg	Wipe	AR	4370		20.0	60.0	ng/unit	B173361	1701548
GTH844 1750009-02	Hg	Wipe	AR	33400		500	1500	ng/unit	B173361	1701548
135D 1750009-03	Hg	Wipe	AR	3650		20.0	60.0	ng/unit	B173361	1701548
FB 1750009-04	Hg	Wipe	AR	63.7	J-1	0.50	1.50	ng/unit	B173361	1701548
KUBOTA95 1750009-05	Hg	Wipe	AR	132000		2000	6000	ng/unit	B173361	1701548

BAL REPORT 1750009

Client PM: Matthew Von der Ahe

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



Accuracy & Precision Summary

Batch: B173361 Lab Matrix: Other

Method: EPA 1631 Appendix

Sample B173361-BS1	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B1/3301-B31	Blank Spike , (1745009) Hg		50.00	49.71	ng/unit	99% 70-130	
B173361-SRM1	Standard Reference Mate Hg	rial (152901	6, MESS-4) 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

 Average: 0.02
 MDL: 0.50

 Limit: 1.00
 MRL: 1.50

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



Sample Containers

Lab ID: 1750009-01 Sample: F750 Des Container	Size	Lot	Report Matrix: Wipe Sample Type: Sample Preservation	P-Lot	Collected: 12/0 Received: 12/1 pH Ship. C	1/2017
A Client-Provided	Size	Lot	none	n/a	Envelo 17500	pe -
Lab ID: 1750009-02 Sample: GTH844			Report Matrix: Wipe		Collected: 12/0 Received: 12/1	
Des Container	Size	Lot	Sample Type: Sample Preservation	P-Lot	pH Ship. C	
A Client-Provided	0.2 0		none	n/a	Envelo 17500	pe -
Lab ID: 1750009-03 Sample: 135D			Report Matrix: Wipe Sample Type: Sample		Collected: 12/0 Received: 12/1	
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. C	ont.
A Client-Provided			none	n/a	Envelo 17500	•
Lab ID: 1750009-04 Sample: FB			Report Matrix: Wipe Sample Type: Sample		Collected: 12/0 Received: 12/1	
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. C	
A Client-Provided			none	n/a	Envelo 17500	pe -
Lab ID: 1750009-05 Sample: KUBOTA95			Report Matrix: Wipe Sample Type: Sample		Collected: 12/0 Received: 12/1	
Des Container	Size	Lot	Preservation	P-Lot	pH Ship. C	
A Client-Provided			none	n/a	Envelo 17500	pe -

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

+



Client: ASPECT CONSULTING, LLC

Contact: MATTHEW VON DER AHE

Client Project ID: 070188-27

Samples Collected By: MV

Chain -of-Custody Form

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

> PO Number: 070188-27 Phone: 206-718-9548

Email: mvonderahe@aspectconsulting.

Received by: Market For BAL use of	only Date:	12/11/17	
Work Order ID:	Time:	9:30	
Project ID:			

Mailing Address: ACCOUNTS PAYABLE 350 MADISON AVE N

Email Receipt Confirmation? Yes

BAL PM:

						100	April March								
Requested TAT (business days)	Collec	tion	Clier	nt Sampl	e Info				ВА	L Analys	ses Requ	iired			Comments
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☐ 10* ☐ 5* ☑ Other RU월			Matrix Type	Number of Containers	Filtered?	ervation Type	Hg,	Methyl Hg, EPA 1630	AS N	Species (specify)	Species	ioi	(specify here)	(specify	
*Surcharges may apply to expedited TATs Sample ID	Date	Time	Matri	Cont	Field	Pres	Total	Meth PPA	ICP-MS (specify)	As S	Se S	Filtration	Other	Other	
1 F750	7DEC	16:00				<u> </u>	<u> </u>	2 11			0)	ш.	0	0	Specify Here
2 GTH844	7DEC	16:00	Other (Specify				· /								WIPE SAMPLE
3 135D	7DEC	16:00	Other (Specify	1			· /								WIPE SAMPLE
4 FB	7DEC	-	Other (Specify			1	· /								WIPE SAMPLE
5 KUBOTA95		16:00	Other (Specify	1											WIPE SAMPLE
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Received By:	Date	: :	Time:		То	tal Nun	nber o	f Pack	ages:						
Page 1 of 1 List Ha	zardous	Contan	ninants:									sample	s@broo	ksannlier	d.com brooksapplied.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	Load	Waste We	ight (tons)
Tracking No.	Date	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)

, and the man a coordinately									
Manifest	anifest Load Waste Weight (tons								
Tracking No.	Date	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	Load	Waste We	ight (tons)
Tracking No.	Date	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

↑ UNI	rint or type. (Form desig	ned for use on elite (12-pitch) typev		age 1 of 3. Eme	ergency Response	Dhana	4. Manifest 1		Approved, OMB No.
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	enerator's Name and Maillin PORT OF BEL 1801 ROEDER JUGHAM	LINGHAM	Ý	Genera	tor's Site Address	(if different th	an mailing addres	s)	
6. Tr	ansporter 1 Company Nam	e					U.S. EPA ID N	lumber	
7. To	R TRANSPO ansporter 2 Company Nam						U.S. EPA ID N		0028338
								200000	
	esignated Facility Name an	CHEMICAL 17629 CED	L WASTE MANA DAR SPRINGS L DN OR 97812-970	ANE	INC.		U.S. EPA ID N		9452353
9a. HM	1	on (including Proper Shipping Name, Ha	zard Class, ID Number,		10. Contai No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Code
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	marked and labeled/placar Exporter, I certify that the o	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co contents of this consignment conform to imization statement identified in 40 CFR	ondition for transport according the terms of the attached EPA	g to applicable into A Acknowledgmer	ernational and nati it of Consent.	onal governm	ental regulations.		
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S. Designator Scripping Name and Stee Address CHEMICAL WASTE MANAGEMIENT, ITIC 176.29 CEDAR SPRINTS SLANE ARCHINGTON RE 97612-9709 Pacify Social Standard Sprint Management Service Station Name, leased Class, Districts ARCHINGTON RE 97612-9709 ARCHINGTON WASTE (SOIL) 2. 3. 4. 4. 4. 4. 5. Second Handling Instructions and Avertical Information PROFILE OR SCRIPPIANION Leavy, designs that the contents of this conspirence or some profile page place in the contents of the conspirence or some profile page place in the profile page place p	Gene	erator's Phone:										
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CWMI e print or type. (Form designed for use on elite (12-pitch) typewriter. Form Approved, OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **WASTE MANIFEST** (800)424-9300 WAD009252297 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) FORT OF BELLINGHAM 1801 ROEDER AVENUE Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number R TRANSPORT WAH000028338 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 ORD089452353 Facility's ANS/Ac1)454-2843 ARLINGTON OR 97812-9709 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit Waste Codes and Packing Group (if any)) НМ Quantity Wt. Vol. No. Туре MATERIAL NOT REGULATED BY DOT. GENERATOR - 1 OT STATE HAZARDOUS (TREATED REMEDIATION WASTE (SOIL)) 14. Special Handling instructions and Additional information PROFILE OR329415: 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/Offeror's Printed/Typed Name Day Year the port of Mathewurk 16. International Shipments 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 Day Year Transporter 2 Printed/Typed Name Month 18. Discrepancy 18a. Discrepancy Indication Space ___ Туре Quantity Residue __ Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED Day 18c. Signature of Alternate Facility (or Generator)

Signature

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Printed/Typed Name

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

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Printed/Typed Name

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CYVMI 58245 Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number 018112580 JJK WAD009252297 (800)424-9300 **WASTE MANIFEST** 5. Generator's Name and Mailing Address
1. OF BELLINGHAM Generator's Site Address (if different than mailing address) 1801 ROEDER AVENUE (206)838-5830 BELLINGHAM Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number RTRANSPORT WAH000028338 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 ORD089452353 Facility's (54.1)454-2643 **ARLINGTON OR 97912-9709** 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 12. Unit 11 Total 13. Waste Codes and Packing Group (if any)) HM No. Type Quantity Wt./Vol. MATERIAL NOT REGULATED BY DOT, 007 WT02 GENERATOR STATE HAZARDOUS TREATED REMEDIATION WASTE (SOIL)) PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL)

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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereb						
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I certify that the waste minimization statement identified in			renerator) is true	_		
Generator's/Offeror's Printed/Typed Name	Signature	(b) (ii) ain a cinaii quantity g		Month	Day	Year
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16. International Shipments Import to U.S.	Export from U.S.	Port of entry/exit:				
Transporter signature (for exports only):		Date leaving U.S.:		1		- 1
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name	Signature	111		Month	Day	Year
BRANGON LINE	Mark	2001		11	27	17
Transporter 2 Printed/Typed Name	Signature			Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space Quantity	Туре	Residue	Partial Rejection		Full Reject	tion
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18b. Alternate/Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)				Month	Day	Year
776						
19. Hazardous Waste Report Management Method Codes (i.e.	, codes for hazardous waste treatment, disposal, and recy	/cling systems)				-
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1 1137		*				
20, Designated Facility Owner or Operator: Certification of rece	int of hazardous materials covered by the manifest excer	at as noted in Item 18a				
Lo. Designated Calling Chile. of Operator. Continuation of the	ip of the Edition of the Color of the that he can be	the linear in Holli Ion				

Signature

Printed/Typed Name

Month

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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number VAAD 009252297	2. F	1	3. Emergency Response Phone (800)424-9300			4. Manifest Tracking Number 018112581 JJK				
5. Generator's Name and Mailin PORT OF BEL 1801 ROEDER BELLINGHAM	LINGHAM R AVENUE		Gene	rator's Site Addre	ess (if different t	han mailing addre	ess)				
Generator's Phone: 6. Transporter 1 Company Name R TRANSPORT					57		U.S. EPA ID Number				
7. Transporter 2 Company Name					31	WAH000028338 U.S. EPA ID Number					
3. Designated Facility Name ar						U.S. EPA ID	Number	-			
Facility's Phone:)454-26	17629 CEI	AL WASTE MANA DAR SPRINGS L ON OR 97812-97	ANE	, INC		Î	ORD08	945235	3		
9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Cor No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol. 13. Waste Codes		es		
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ransporter 2 Printed/Typed Na	me		Signature					IVIC	niri Day	y 	
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8b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number							
acility's Phone: 8c. Signature of Alternate Fac	illty (or Generator)					1		M	onth Da	ay	
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9. Hazardous Waste Report M	lanagement Method Codes (i.e., codes	FIOI HAZAIQOUS WASTE Treatme	3.	recycling system	19)	4.				_	
20. Designated Facility Owner of	or Operator: Certification of receipt of h	azardous materials covered b	y the manifest e. Signature		Item 18a				onth Day	y	

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Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone WAD009252297 1800 1424-9300 **WASTE MANIFEST** Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address ம். ju 1801 ROEDER AVENUE 1 (206)838-5830 BELLINGHAM Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name R TRANSPORT WAH000028338 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC 17629 CEDAR SPRINGS LANE ORD089452353 Facility's Phone: 1 14 54 - 264 3 ARLINGTON OR 97812-9709 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 12. Unit 11. Total 13. Waste Codes and Packing Group (if any)) Wt./Vol. НМ No. Туре Quantity MATERIAL NOT REGULATED BY DOT, VVT02 STATE HAZARDOUS 26.0 TREATED REMEDIATION WASTE (SOIL)) PROFILE OR329415: TREATED REMEDIATION WASTE (SOIL) 14. Special Handling Instructions and Additional Information 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. Month Year Generator's/Offeror's Printed/Typed Name DWATE 100 16. International Shipments Port of entry/exit: Import to U.S. Export from U.S. Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Day Year Transporter 1 Printed/Typed Name Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy 18a. Discrepancy Indication Space Турө Quantity ___ Residue Partial Rejection _ Full Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Day 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) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature Printed/Typed Name

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone **WASTE MANIFEST** (800)424-8300 WAD009252297 5. Generator's Name and Mailing Address Generator's Site Address (If different than malling address) PORT OF BELLINGHAM 1801 ROEDER AVENUE Generator's Phone: (2061838-6. Transporter 1 Company Name U.S. EPA ID Number R TRANSPORT WAH000028338 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ORD089452353 Facility's Phone:)454-2643 **ARLINGTON OR 97812-9709** 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Quantity Wt Mol ΗМ No. Туре MATERIAL NOT REGULATED BY DOT. GENERATOR STATE HAZARDOUS TREATED REMEDIATION WASTE (SOIL)) 14. Special Handling Instructions and Additional Information & PROFILE OR\$29415: 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/Offeror's Printed/Typed Name Day HOWA Ben 16. International Shipments Export from U.S. Port of entry/exit: Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed Name Signature Month Day Year MODIN ROLL Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Partial Rejection Full Rejection Quantity Manifest Reference Number U.S. EPA ID Number 18b. Alternate Facility (or Generator) 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) 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

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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WASTE MANIFEST	1. Generator ID Number WAD009252297	2. Page 1	of 3. Emergency Respond	4-9300	4. Manifest 01	811	258	4 JJ
	7Address V Q8225 206)838-5830		Generator's Site Addre	ess (if different t	nan mailing addres	ss)		
Generator's Phone: 6. Transporter 1 Company Name	RT				U.S. EPA ID	Vumber ()()	0028338	3
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H	Generator's Phone: 6. Transporter 1 Company Nam	(Z06)838-583D			470	U.S. EPA ID	Number		_
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۱ŀ	8. Designated Facility Name an	d Site Address				U.S. EPA ID	Number		
П		CHEMICAL V	ASTE MANAGEMEN	T, INC.					
Н			SPRINGS LANE				ORD0994	152353	
П	Facility's Phone: 1)454-264	43 ARLINGTON	OR 97812-9709						
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1	18. Discrepancy							- 4	
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31	18b. Alternate Facility (or General	rator)				U.S. EPA ID	Number		
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	Facility's Phone:	11/1- / O						T Month D	ay Yea
1	18c. Signature of Alternate Faci	inty (or Generator)						Month Da	ay 1 0 8
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	20. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of hazardo	ous materials covered by the manifest Signatu		tem 18a			Month Da	y Year
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ase print or type. (Form des	gned for use on elite (12-pitch) typewriter.)				112		Approved, OMB No.	2050-00
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6. Transporter 1 Company Na	me				U.S. EPA ID N			
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7. Hansporter 2 Company Ne	nie							
8. Designated Facility Name					U.S. EPA ID N	lumber		
Facility's (154.1)454-21	17629 CEDAR :	STE MANAGEMEN BPRINGS LANE R 97812-9709	T, INC		Î	ORD09	89452353	
	otion (including Proper Shipping Name, Hazard Cla	ss, ID Number,	10. Con	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Cod	les
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19. Hazardous Waste Report	Management Method Codes (i.e., codes for hazar	dous waste treatment, disposal, a	nd recycling system	ns)				
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	r or Operator: Certification of receipt of hazardous			Item 18a	>		Table 19	Nav.
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WASTE MANIFEST	1. Generator ID Number VAD009252297	2. Page 1 of 3. Em	(800)42	4-9300	01	Tracking Num 8112	2588 J	JK
5. Generator's Name and Mailin 1 BELLINGHAM		Genera	itor's Site Addre	ess (if different th	nan mailing addres	es)		
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Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 4. Manifest Tracking Number 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS **WASTE MANIFEST** WAD009252297 (800)424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) PORT OF BELLINGHAM 1801 ROEDER AVENUE Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number R TRANSPORT WAH000028338 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 ORD089452353 Facility's Phone:)454-2643 **ARLINGTON OR 97812-9709** 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 9a. 11. Total 13. Waste Codes НМ and Packing Group (if any)) Quantity Wt./Vol. No. Type MATERIAL NOT REGULATED BY DOT. GENERATOR Y/102 007 T STATE HAZARDOUS 40 000 (TREATED REMEDIATION WASTE (SOIL)) 14. Special Handling Instructions and Additional Information PROFILE OR329415: 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/Offeror's Printed/Typed Name Day the Post 17 16. International Shipments Export from U.S. Port of entry/exit: Date leaving U.S.; Transporter signature (for exports only): TRANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Year Day Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Туре __ Residue Partial Rejection Full Rejection Quantity Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number FACILITY Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Year Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 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

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone **WASTE MANIFEST** WAD009252297 (800)424-9300 5. Generator's Name and Malling Address Generator's Site Address (if different than mailing address) PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number R TRANSPORT WAH000028338 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 ORD089452353 Facility's Phone:)454-2843 ARLINGTON OR 97812-9709 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. НМ No. Туре MATERIAL NOT RESULATED BY DOT NASOT FROM NO STATE HAZARBOUS MATERIA PIVIT LIGHTER BY DOT (TREATED REMEDIATION WASTE (BOIL)) MA 12-1-17 GENERATOR 14. Special Handling Instructions and Additional Information

PROFILE

PROFILE

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ONLY 15. GENERATOR'S/OFFEROR'S CERTIFICATION: | 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 Year OWAIN 26 16. International Shipments Import to U.S. 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 4 Printed/Typed Name Year TRANSPORT Transporter 2 Printed/Typed Name 18. Discrepancy Type Residue Residue Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Month Day Year 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) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature Rrinted/Typed Name

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number VAD009252297	1	3. Emergency Respons (800)424-	-9300		811	L259	2 Ju	JK
	5. Generators Name and Mailir 1801 ROEDER	RAVENUE		Generator's Site Address	s (if different th	an mailing addres	s)			
	BELLINGHAM Generator's Phone:	(206)838-5830	1							
	6. Transporter 1 Company Nam	ie				U.S. EPA ID N	lumber VAHOC	0028338		
	7. Transporter 2 Company Nam	e				U.S. EPA ID N	umber			
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		1801 ROEDER BELLINGHAM erator's Phone:	AVENUE WA 68225 (206)638-5830									
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	15.	GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the o	R'S CERTIFICATION: I hereby declare that the contents of th ded, and are in all respects in proper condition for transport accontents of this consignment conform to the terms of the attach imization statement identified in 40 CFR 262.27(a) (if I am a lar	is consignment cording to appliced EPA Acknow	are fully ar cable inten	national and na of Consent.	ational governn	mental regulations				
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1	18. Di	iscrepancy		-						-	-	
	18a. [Discrepancy Indication Spa	Quantity Type			Residue	N	Partial Re	jection		Full Rej	ection
Ł	18b. A	Alternate Facility (or General	ator)		IVIa	nifest Referen	de Number:	U.S. EPA ID	Number			
ACII	Facilit	tida Dhanai						1				
TED		ty's Phone: Signature of Alternate Facil	ity (or Generator)			1		- 14		Mont	h Day	/ Year
DESIGNATED FACILITY	10 ⊔	azardous Wasta Paport M	anagement Method Codes (i.e., codes for hazardous waste tre	atment dispose	and reco	roling evetomo						
DES	1,	1127	anagement wethou codes (i.e., codes for nazardous waste tre	atment, disposa	ii, anu recy	omig systems)		4,				
	00 =	FIDE		16-0			40					
	-	esignated Facility Owner o ed/Typed Name	r Operator: Certification of receipt of hazardous materials cove		fest excep mature	t as noted in Ite	em 18a			Monti	n Day	Year
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	NIFORM HAZARDOUS	1. Generator I	D Number		2. Page 1 of	f 3. Emerge	ency Respons	e Phone	4. Manifest	Tracking I	Number	ed. OMB No	
11_	WASTE MANIFEST	A.P.Yr.	100082522	197	1		900)424		4. Manifest	81	<u> 125</u>	94.	IJ
5.	Generator's Name and Mailir	ng Address	NM.			Generator'	s Site Addres	s (if different	than mailing addre	ss)			
	BELLINGHAM	1	WA 98225										
	enerator's Phone:	(206)838	3-0630										
6.	Transporter 1 Company Nam	PRT							U.S. EPA ID	Number VAAHO	00028	338	
7,	Transporter 2 Company Nam	10							U.S. EPA ID I	Number			
	Designated Facility Name an	104. 11							110 504/01	N. orter			
0,1	(54.1)454-28		17829	CAL WASTE CEDAR SPR GTON OR 97	INGS LANE		VC.		U.S. EPA ID I		894523	353	
98	gellity's Phone: 9b. U.S. DOT Descripti	ion (including Pr	roper Shipping Nai	me, Hazard Class, ID N	Number,		10. Conta	_	11. Total	12. Unit		13. Waste Co	des
H	and Packing Group (if a		ILATED B	y DOT			No.	Type	Quantity	Wt./Vol.	_		
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	. Special Handling Instruction			MEĎLATION :	WASTÈ (SO	OIL)	. 7 -	+14	4438	30 F	2		
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15.	GENERATOR'S/OFFERC marked and labeled/placa Exporter, I certify that the I certify that the waste min enerator's/Offeror's Printed/Ty	OR'S CERTIFIC orded, and are in contents of this himization stater	ATION: I hereby on all respects in proconsignment confiment identified in 4	declare that the conten oper condition for trans form to the terms of the	nts of this consignmen sport according to app e attached EPA Ackno am a large quantity ge	nt are fully and plicable internovaledgment of penerator) or (I	d accurately d ational and na f Consent.	escribed abo	mental regulations		shipment an	nd I am the Pr	rimar
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1	UNIFORM HAZARDOUS		2. Page 1 of 3. I	mergency Respons	se Phone	4. Manifest	Tracking Num	259 5 J	11/
П	WASTE MANIFEST	WAD009252297	1	(800)424	and the same of th			7020 J	<u>JK</u>
П	5. Generator's Name and Mail PORT OF	ing Address	Gen	erator's Site Addres	s (If different th	an mailing addres	ss)		
П									
П	1801 ROEDE								
П	BELLINGHAN Generator's Phone:	(206)838-5830	3						
П	Transporter 1 Company Nar	me				U.S. EPA ID I	Number		
П	R TRANSPO	ORT					MAHOOO	028338	
11	7. Transporter 2 Company Nar	me				U.S. EPA ID N	Number		
П									
H	8. Designated Facility Name a	nd Site Address			7-	U.S. EPA ID I	Vumber		
Ш		CHEMICAL WASTE	MANAGEMEN	T. INC.	/				
П		17629 CEDAR SPRI	NGS LANE		,	1	ORD089	450353	
Ш	Facility's Profile 1) 154-26	343 ARLINGTON OR 97	912-9709				214000	402000	
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Į.	16. International Shipments	Import to U.S.	Export from U.S.	Port of e	entry/exit:		(
록	Transporter signature (for exp	·			ving U.S.;				
*	17. Transporter Acknowledgme	nt of Receipt of Materials							
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2	Transporter 2 Printed/Typed Na		Signatų	6				Month Day	Year
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1	18. Discrepancy		-						
H	18a. Discrepancy Indication Sp	nare 🗆				П			
П	Tou. Disoropanoy maioation op	Dace Quantity Ty	ре	Residue		Partial Rej	ection	Full Rej	ection
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-	18b. Alternate Facility (or Gene	erator)		Manifest Referen	CA INUMIDAL:	U.S. EPA ID I	Number		
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18	Facility's Dhanes					1			
5	Facility's Phone: 18c. Signature of Alternate Fac	cility (or Generator)				-		Month Da	y Year
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2	19. Hazardous Waste Report N	Management Method Codes (i.e., codes for hazardous wa		recycling systems)		L.			
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1 5	The second secon	or Operator: Certification of receipt of hazardous material		Constitution of the	em 18a				27
	Printed/Typed Name	Dunlan	Signatur	e / /				Month Day	Year
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Plea	se pri	nt or type. (Form design	ned for use on elite (12-pitch) typewriter.)							Approved. OMB No. 2050-0039
1		OKINI HAZAKDOOS	1. Generator ID Number	2. Page 1 of	10.000	ency Response		4. Manifest	Tracking Num	DEOZ IIV
		ASTE MANIFEST	V//AD009252297	1		300)424-				2597 JJK
	5. Ge	nerator's Name and Mailin	g Address		Generator'	s Site Address	(if different th	an mailing addre	ss)	
		1801 ROEDER								
	100	RELLINIGHAM	VA/A 09225	1						
		rator's Phone: insporter 1 Company Name	(200)836-0830				_	U.S. EPA ID	Number	
	o. ma	R TRANSPO							WAH000	028338
	7. Tra	insporter 2 Company Name						U.S. EPA ID		020000
		, , , , , , , , , , , , , , , , , , , ,						1		
	8. De:	signated Facility Name and	d Site Address					U.S. EPA ID	Number	
	1		CHEMICAL WASTE N		ENT, IN	VC_				
			17629 CEDAR SPRIN						ORDO89	452353
	Facili	ly's Phone: 1)454-264	43 ARLINGTON OR 978	12-9709				76		
	9a.		on (including Proper Shipping Name, Hazard Class, ID Num	nber,		10. Contai	iners	11. Total	12. Unit	13. Waste Codes
	НМ	and Packing Group (if a	ny))			No.	Type	Quantity	Wt./Vol.	15. Waste Codes
R		MATERIAL NO	OT REGULATED BY DOT,			4	57	1.5%	XO	07 VVT02
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			s and Additional Information	1 4 1	1 1 1	1 12	A is hy	1	211	
1.	PR	OFILE OR3294	115: TREATED REMEDIATION W	ASTE (SO)	L)				1	
	1									
	15	GENERATOR'S/OFFERO	R'S CERTIFICATION: I hereby declare that the contents of			d accurately de	ascribed above	by the proper si	hinning name a	and are classified packaged
		marked and labeled/placar	ded, and are in all respects in proper condition for transpor	rt according to applic	cable intern	ational and nat	lional governm	ental regulations	. If export shipr	ment and I am the Primary
			contents of this consignment conform to the terms of the att imization statement identified in 40 CFR 262.27(a) (if I am a				all quantity ger	nerator) is true.		7
		rator's/Offeror's Printed/Typ			pature		1		1	Month Day Year
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긥	16. ln	ternational Shipments	Import to U.S.	Export from U	J.S.	Port of er	ntrv/exit:			
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458531 CVMI Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 2. Page 1 of 3. Emergency Response Phone 1. Generator ID Number 4. Manifest Tracking Number **UNIFORM HAZARDOUS WASTE MANIFEST** MADGGG Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 206) 838-5830 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name RITRANSPORT WAH0000283.88 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 ORD089452353 ARLINGTON OR 97812-9709 (544) 454, 2642 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. No. Туре GENERATOR MATERIAL NOT REGULATED BY DOT. 307 STATE HAZARDOUS 4 T TREATED REMEDIATION WASTE (SOIL 14. Special Handling Instructions and Additional Information PROFILE OR329415: 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/Offeror's Printed/Typed Name 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: TRANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Туре Residue Full Rejection Quantity Partial 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) 4.

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Printed/Typed Name

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

DESIGNATED FACILITY TO GENERATOR

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone **WASTE MANIFEST** 5. Generator's Name and Mailing Address Generator's Site Address (If different than mailing address) PORT OF BELLINGHAM 1801 ROEDER AVENUE GRELLINGHAM WA 98225 6. Transporter 1 Company Name U.S. EPA ID Number R TRANSPORT U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ORD089452353 Facility's ARLINGTON OR 97812-9709 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, 1D Number, 10. Containers 9a. 11. Total 12. Unit 13. Waste Codes НМ and Packing Group (if any)) Wt./Vol. No. Quantity Туре GENERATOR MATERIAL NOT REGULATED BY DOT. STATE HAZARDOUS 1 T TREATED REMEDIATION WASTE (SOIL 14. Special Handling Instructions and Additional Information PROFILE OR329415: 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. 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 Year Month JOHAR 16. International Shipments Import to U.S. 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 TRANSPORT Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Quantity Residue Partial Rejection _ Full Rejection Manifest Reference Number: 18b. Alternate Pacility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Day Month Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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 Day Month

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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	5. Generator's Name and Maili	ng Address	2 4 1	Generator's Sit	e Address	(If different th	an mailing addres	s)		
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	20. Designated Facility Owner	or Operator: Certification of receipt of haza	dous materials covered by the	nanifest except as n	oted in Ite	m 18a				
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Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number UNIFORM HAZARDOUS 018112844 JJK WASTE MANIFEST VVA D 0 0 9 2 5 2 2 9 800) 404-9300 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM WA 98225 (206) 838-5830 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name R TRANSPORT WAH000028338 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL VVASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE ORD089452353 ARLINGTON OR 97812-9709 1541)454-2643 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a. 13. Waste Codes and Packing Group (if any)) нм Nο Туре Quantity Wt./Vol. MATERIAL NOT REGULATED BY DOT, 107 V/T02 STATE HAZARDOUS 1 TREATED REMEDIATION WASTE (SOIL) 34260P 14. Special Handling Instructions and Additional Information PROFILE OR329415: 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/Offeror's Printed/Typed Name Month Day Year 16. International Shipments Import to U.S. 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 Signature Month Day Year ACANIMA) Transporter 2 Printed/Typed Name Signature Month Day Year 18. Discrepancy 18a. Discrepancy Indication Space Type Full Rejection Residue □ Partial Rejection Quantity Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Year Month Day 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) 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 EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

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	marked and labeled/place Exporter, I certify that the	OR'S CERTIFICATION: I hereby decla arded, and are in all respects in proper of contents of this consignment conform to nimization statement identified in 40 CF	condition for transport ac the terms of the attach	ccording to appilo hed EPA Acknowl	able International and edgment of Consent.	national govern	mental regulations.			
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	20. Designated Facility Owner	or Operator: Certification of receipt of h	azardous materials cove	ered by the manif	est excépt as noted in	Item 18a				
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WASTE MANIFEST WADOO 9 2 5 2			424-020		01	811	2846	JJK
5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM VVA 98225 Generator's Phone: 6. Transporter 1 Company Name	(206)838-583	Generat			u.s. EPA ID N	s)		
R TRANSPORT							0 2 8	3 3 8
7. Transporter 2 Company Name					U.S. EPA ID N		J C E C	
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8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMEN 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone:	IT, INC.	12			U.S. EPAID N		3 4 5 2	353
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Ha			10. Contai	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Wa	ste Codes
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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declar marked and labeled/placarded, and are in all respects in proper of Exporter, I certify that the contents of this consignment conform to I certify that the waste minimization statement identified in 40 CFF Generator's/Offeror's Printed/Typed Name	ondition for transport according the terms of the attached EFR 262.27(a) (if I am a large qu	ng to applicable inte PA Acknowledgment	mational and nat of Consent.	ional governn	nental regulations.	pping name If export sh	e, and are classif ipment and I am Month	led, packaged, the Primary
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19. Hazardous Waste Report Management Method Codes (i.e., codes t	for hazardous waste treatmer	nt, disposal, and rec	vcling systems)					
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Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter, 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **UNIFORM HAZARDOUS** 018112848 JJK **WASTE MANIFEST** 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM VVA 98225 Generator's Phone: 206) 838-5830 U.S. EPA ID Number 6. Transporter 1 Company Name R TRANSPORT 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 ORD089452353 ARLINGTON OR 97812-9709 Facility's Phone (644) 464_0849 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM No. Туре Quantity Wt./Vol. ÜN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTAILCE 200 SOLID,N O S,9,HI(RQ D009), 14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 35700F 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 Year Month Day 16. International Shipments Export from U.S Port of entry/exit: Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy 18a. Discrepancy Indication Space Туре Residue Full Rejection Quantity Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Year Month Dav 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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

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1	UNIFORM HAZARDOUS WASTE MANIFEST	Generator ID Number	2. Page 1 of 3. Em			01	Fracking Number 8112	849 J	JK
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П	Generalor shome 1.4.	WA 98225	1						
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П	7. Transporter 2 Company Nar	me				U.S. EPA ID N	umber		
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Н	8. Designated Facility Name as	nd Site Address				U.S. EPA ID N	lumber		
Ш	CHEMICAL	WASTE MANAGEMENT, INC.							
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Ш									
П	15. GENERATOR'S/OFFERO	OR'S CERTIFICATION: I hereby declare that the conte arded, and are in all respects in proper condition for trai	ents of this consignment are fully	and accurately des	cribed above	by the proper shi	pping name, and	are classified, pack	aged,
Ш	Exporter, I certify that the	contents of this consignment conform to the terms of the	nsport according to applicable in he attached EPA Acknowledome	ernational and natio	mai governme	entai regulations.	if export snipme	nt and I am the Prim 7	nary
Ш	I certify that the waste mir	nimization statement identified in 40 CFR 262.27(a) (if	I am a large quantity generator)	r (b) (if I am a smal	I quantity gen	erator) is true.			
Ш	Generator's/Offeror's Printed/Ty	yped Name	Signature			11	1	Month Day	Year
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	20. Designated Facility Owner of	or Operator: Certification of receipt of hazardous mater	ials covered by the manifest axo	pt as noted in Item	18a			100	
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Form Approved. OMB No. 2050-0039

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6	WASTE MANIFEST WADOOB252			5 2 2 9 7	2 9 7 4 900 1424 9200 Generator's Site Address (if different the		018112850 JJK								
		nerator's Name and Mailir				*Generator's Site Address	s (if different t	han mailing addre	ss)						
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	8. Designated Facility Name and Site Address U.S. EPA ID Number														
	CHEMICAL WASTE MANAGEMENT, INC. 4														
	17629 CEDAR SPRINGS LANE ORD 0 8 9 4 5 2 3 5 ARLINGTON OR 97812-9709											3			
	Facilit	ty's Phone:	1 UR 81012-8108	(541) 454.	2843							Name of Street			
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	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											aged,			
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 to Exporter. I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.												ary			
П	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.														
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Form Approved, OMB No. 2050-003

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		801 ROEDER A	WA 98225		Ï										
		nsporter 1 Company Nam		(206) 030- 6	030			U.S. EPA ID Number							
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	7. Trai	nsporter 2 Company Nan	ne					U.S. EPA ID Number							
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	8. Designated Facility Name and Site Address								U.S. EFA ID Number						
	CHEMICAL WASTE MANAGEMENT, INC. 17829 CEDAR SPRINGS LANE									ORD089452353					
	Facilit	ARLINGTON y's Phone:	OR 97812-9709	(5/14) //5/	2842			*							
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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.														
П	Gener	ator's/Offeror's Printed/Ty		ature		4	1	Mon	th Day	Year					
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	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a														
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CVMII Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 4. Manifest Tracking Number 018112852 JJK 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS **WASTE MANIFEST** WAD009252 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address
PORT OF BELLINGHAM
1801 ROEDER AVENUE

	BELLINGHAM WA 98225 Generator's Phone: (206) 838-5830												
П		nsporter 1 Company Name	0		U.S. EPA ID Number								
Ш	R	TRANSPORT	R-	57	WAH000028338								
	7. Trai	nsporter 2 Company Name			U.S, EPA ID I	Number		*					
Н	8. Des	signated Facility Name and Site Address			U.S. EPA ID I	Number							
П		CHEMICAL WASTE MANAGEMENT, INC.											
П		17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709			ORD	0 8 9	4 5	2 3 5	3				
	Facility	y's Phone: (54.1) 4.54 - 2.643							Jul .				
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Conta	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes					
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	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												
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Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **UNIFORM HAZARDOUS WASTE MANIFEST** MADOOD Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE Generator's Phone HAM VVA 98225 6. Transporter 1 Company Name U.S. EPA ID Number U.S. EPA ID Numbe 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ORD089452353 Facility's Phone: Phone 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a 13. Waste Codes and Packing Group (if any)) НМ No. Quantity Wt./Vol. Туре GENERATOR UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTAILCE. D 309 SOLID,N.O.S,9,III(RG D009) 004 14. Special Handling Instructions and Additional Information 57,380.P 1, PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 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. certify that the waste minimization statement identified in 40 CFR 262.27(a) (lif I am a large quantity generator) or (b) (lif I am a small quantity generator) is true Generator's/Offeror's Printed/Typed Nam Day PW 16. International Shipments 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 Day Month Year 30 Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space U Type Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number **FACILITY** Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Year Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in term 18a Printed/Typed Name Signature

Please print or type. (Form designed for use on elite (12-pitch) typewriter. Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **WASTE MANIFEST** WAD00925229 800) 424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) PORT OF BELLINGHAM 1801 ROEDER AVENUE BELLINGHAM VVA 98225 (206) 838-5930 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Q-57 R TRANSPORT WAH000028338 U.S. EPA ID Number 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 ORD089452353 ARLINGTON OR 97912-9709 5411454-2843 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a 13. Waste Codes and Packing Group (if any)) Wt./Vol. HM No. Type Quantity UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTAILCE, GENERATOR D000 15,00 SOLID,N.O.S.9,H(RQ D009) 001 14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 15.46 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. Locrtify 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. Day Year Generator's/Offeror's Printed/Typed Name Month DE 16. International Shipments Import to U.S. 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 Transporter 2 Printed/Typed Name Signature Month Day Year 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 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) 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 Month Signature

#12-61° CVMI Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **UNIFORM HAZARDOUS WASTE MANIFEST** Generator's Site Address (if different than mailing address) Generator's Name and Mailing Address PORT OF BELLINGHAM 1801 ROEDER AVENUE GBELLINGHAM WA 98225 6. Transporter 1 Company Name U.S. EPA ID Number TRANSPORT U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ORD089452353 Facility's Phone: Phone 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. No. Type UN3077,WASTE ENVIRONMENTALLY HAZARDOUS SUBSTAILCE GENERATOR 0 009 32 SOLID,N.O.S,9,HI(RQ D009) 001 TU 14. Special Handling Instructions and Additional Information 1. PROFILE OR329418; MERCURY CONTAMINATED DEBRIS; ERG= 171; RQ=1 LB 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 Month Year Day 6 16. International Shipments Import to U.S. 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 | Printed/Typed Name Signaturé Month Day Year lan Transporter 2 Printed/Typed Name Month 18. Discrepancy 18a. Discrepancy Indication Space Type Partial Rejection Full Rejection Quantity Residue Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Day Month Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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

Day

Year

APPENDIX H

Certificates of Disposal (in the order of Manifest Tracking No., followed by certificates for non-hazardous waste)



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.

CWMNW RECORDS DEPARTMENT Certificate # 225308

12/01/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225309

12/01/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225325 12/01/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225403



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.

CWMNW RECORDS DEPARTMENT Certificate # 225394



PORT OF BELLINGHAM ATTN: MANIFEST SECTION WADO09252297 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

CMM UNITE #: 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.

CWMNW RECORDS DEPARTMENT Certificate # 225393



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 018112581 JJK.

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.

CWMNW RECORDS DEPARTMENT Certificate # 225392



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.

CWMNW RECORDS DEPARTMENT Certificate # 225390



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.

CWMNW RECORDS DEPARTMENT Certificate # 225408



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.

CWMNW RECORDS DEPARTMENT Certificate # 225487

12/06/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225405



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



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.

CWMNW RECORDS DEPARTMENT Certificate # 225489

12/06/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225767

12/15/17



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

	CWM	Xfer	Site		
Process	Unit	Date	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



PORT OF BELLINGHAM ATTN: MANIFEST SECTION WADO09252297 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

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.

CWMNW RECORDS DEPARTMENT Certificate # 225768

12/15/17



PORT OF BELLINGHAM ATTN: MANIFEST SECTION WADO09252297 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

	CWM	Xfer	Site	
Process	Unit	Date	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



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

	CWM	Xfer	Site	
Process	Unit	Date	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 # 227531



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

	CWM	Xfer	Site	
Process	Unit	Date	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 # 227529



PORT OF BELLINGHAM ATTN: MANIFEST SECTION WADO09252297 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

	CWM	Xfer	Site	
Process	Unit	Date	Location	Gen #
D80 LANDFILL	1*0	11/29/1	7 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 # 227527



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.

CWMNW RECORDS DEPARTMENT Certificate # 225486

12/06/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225270 12/01/17

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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.

CWMNW RECORDS DEPARTMENT Certificate # 225269 12/01/17



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.

CWMNW RECORDS DEPARTMENT Certificate # 225938



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.

CWMNW RECORDS DEPARTMENT Certificate # 225939



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



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.

CWMNW RECORDS DEPARTMENT Certificate # 225916



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



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.

CWMNW RECORDS DEPARTMENT Certificate # 225936



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.

CWMNW RECORDS DEPARTMENT Certificate # 225925



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.

CWMNW RECORDS DEPARTMENT Certificate # 225928



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.

CWMNW RECORDS DEPARTMENT Certificate # 225922



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.

CWMNW RECORDS DEPARTMENT

Certificate # 225769

12/15/17



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 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.

CWMNW RECORDS DEPARTMENT Certificate # 225904



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.

CWMNW RECORDS DEPARTMENT Certificate # 225903



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



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.

CWMNW RECORDS DEPARTMENT

Certificate # 227203

02/05/18

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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



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.

CWMNW RECORDS DEPARTMENT Certificate # 227193

02/05/18

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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.

CWMNW RECORDS DEPARTMENT Certificate # 227201



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.

CWMNW RECORDS DEPARTMENT Certificate # 227192



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.

CWMNW RECORDS DEPARTMENT Certificate # 227194



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.

CWMNW RECORDS DEPARTMENT Certificate # 227202



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.

CHARTMENT CERTIFICATE # 227200

02/05/18

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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 Mc Kinney

Victoria McKinney Special Waste Scale Clerk Columbia Ridge Landfill & Recycling

18177 CEDAR SPRINGS LN,

Web Ticket # 3370

ARLINGTON, OR, 97812-6512

Ph: (541) 454-2030

NONE No Carrier Carrier

Vehicle# NONE Volume

Customer Name ENGINEERING REMEDIATION

Billing#

Grid

0002165

Ticket Date 01/11/2018

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