ecology and environment, inc.
Global Environmental Specialists
333 SW Fifth Avenue, Suite 600
Portland, Oregon 97204
Tel: (503) 248-5600, Fax: (503) 248-5577

July 29, 2014

Dan Heister, On-Scene Coordinator
United States Environmental Protection Agency
805 SW Broadway, Ste. 500
Portland, OR 97205

Re: Final Trip Report for the Absorbent Technologies, Inc. Ferry Street Property Removal Assessment, Contract Number EP-S7-13-07-E&E, Technical Direction Document Number 13-10-0006

Dear Mr. Heister:

Enclosed please find the Final Trip Report for the Absorbent Technologies, Inc. Ferry Street Property Removal Assessment Site located in Albany, Oregon. The Absorbent Technologies, Inc. Queen Avenue Property Response Trip Report will be prepared separately.

If you have any questions regarding this submittal, please call Jim Petersen (503) 248-5600 or me at (206) 624-9537.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Brad Martin

Brad Martin
START-IV Emergency Response Team Leader

cc: Jim Petersen, START-IV Project Manager, E & E, Portland, Oregon

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FINAL TRIP REPORT

Absorbent Technologies, Inc. Ferry Street Property Removal Assessment
Albany, Oregon
TDD: 13-10-0006

Prepared for:

U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue, M/S: ECL-116
Seattle, WA 98101

Prepared by:

Ecology and Environment, Inc.
333 SW Fifth Avenue, Suite 600
Portland, Oregon 97204

July 2014

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Executive Summary

On October 15, 2013, the United States Environmental Protection Agency (EPA) responded to Absorbent Technologies, Incorporated (ATI) sites located at 140 SW Queen Avenue and 2830 SW Ferry Street in Albany, Oregon, to address a potential public safety and health hazard posed by abandoned hazardous chemicals. ATI occupied these leased properties since 2004, manufacturing a proprietary, ultra-absorbent soil additive and fertilizer product used to improve crop irrigation efficiency. The Queen Avenue property housed ATI's main production facility and corporate office, while the Ferry Street property served as the research and development (R&D) facility. In addition to R&D activities, certain production steps such as dewatering and bagging were conducted at the Ferry Street facility. The company ended its operations due to bankruptcy on October 11, 2013.

ATI's production process utilized several hazardous substances, including acrylonitrile, phosphoric acid, potassium hydroxide, and methanol. Production also generated various waste streams. These materials and undisposed wastes were left at ATI's Ferry Street and Queen Avenue locations when ATI ceased operations and abandoned its facilities. The Queen Avenue facility historically stored large quantities of acrylonitrile, including a partially full 20,000-gallon tank. Other hazardous materials, including corrosives and oxidizers, were also left on site. Acrylonitrile is a flammable, corrosive chemical that can degrade to components and has the potential to self-polymerize in an exothermic reaction that can release cyanide gas. According to former ATI site operators and the acrylonitrile supplier (INEOS Nitriles of Port Lavaca, Texas), the acrylonitrile stored at the Queen Avenue facility contained a stabilizer additive; however, the stabilizer was at least 18 month old—well past INEOS's recommended six-month useful lifetime. The 20,000-gallon aboveground storage tank contained approximately 2,700 to 2,800 gallons of acrylonitrile. ATI's Ferry Street facility had tanks containing methanol, wastewater totes, and other chemicals that could adversely impact human health and the environment. During the facility's operation, Acrylonitrile was transported from the Queen Avenue facility in tote containers and injected into the process when needed for R&D or production purposes. The process reactor vessels and piping at both facilities also contained residual acrylonitrile.

When the two ATI facilities were abandoned, the Albany Fire Department took steps to ensure the safety of the community and began working on a plan to secure the hazards that were left behind on both properties. During the response, subsequent cleanup, and decommissioning activities at both facilities, EPA coordinated with the Albany Fire Department, Public Works Environmental Services, the City Attorney's Office, and Linn County Public Health. Representatives from ATI and both property owners who had leased the facilities to ATI cooperated with EPA.

EPA coordinated with the Queen Avenue and Ferry Street property owners during the subsequent cleanup and off-site disposal of the remaining chemical hazards. The removal actions at each site were conducted as potentially responsible party (PRP) lead removals under EPA oversight. In February 2014, due to the unsafe work practices of the environmental contractors hired by the property owners, EPA ordered the work to stop at the Queen Avenue site while EPA Region 10 Office of Regional Counsel prepared a Unilateral Administrative Order (UAO) directing the property owner to develop a work plan incorporating more stringent safety protocols. To meet EPA's approval, the work plan had to require all piping and equipment to be emptied of their contents and cleaned properly under EPA oversight. The UAO was approved by EPA and took effect on March 7, 2014.

EPA's cleanup and oversight activities at the ATI Queen Avenue property were completed by April 2, 2014, after 28,650 pounds of acrylonitrile and associated contaminated material had been removed and all cleanup and oversight activity had been completed. The EPA cleanup and oversight activities at the ATI Ferry Street property were completed by April 16, 2014, with the removal of 18,640 pounds of acrylonitrile contaminated carbon media, 90 gallons of methanol, and rinse water.

1. PLACE VISITED

Site Name: Ferry Street Property ATI
Operator Name: Absorbent Technologies Incorporated
Location: 2830 Southwest Ferry Street, Albany, Oregon 97322
SSID: 10ZZ **CERCLIS ID:** Not Applicable
Latitude: 44.615660 **Longitude:** -123.102293
Dates of Trip: October 17–18, 2013, December 17, 2013, March, April 2014

2. PURPOSE

The United States Environmental Protection Agency (EPA) mobilized Ecology and Environment, Inc. (E & E), under Superfund Technical Assessment and Response Team (START) contract number EP-S7-13-07, Technical Direction Document number 13-10-0006, to conduct an emergency removal assessment of the chemical containers and hazardous wastes at the Absorbent Technologies, Inc. (ATI), Ferry Street property (Figures 1 and 2).

The purpose of the Ferry Street property ATI assessment was to identify hazardous substances/wastes remaining at the site and to identify any threat of human exposure or release into the environment. The emergency response objectives included:

- Assessing chemicals and chemical storage conditions;
- Identifying potential waste sources and waste streams; and
- Documenting the site conditions and activities.
- Recording site conditions and activities through logbook entries and photographs (Attachment A).

3. PERSONS INVOLVED

Agency/Company	Contact Persons/Position	Phone Number
United States Environmental Protection Agency	Dan Heister – On-Scene Coordinator	(503) 326-6869
	Mike Sibley – On-Scene Coordinator	(206) 553-1886
START (Ecology and Environment, Inc.)	Jim Petersen – Project Manager	(503) 248-5600
	Brad Martin – Responder	(206) 624-9537
	Eric Nuchims – Responder	(206) 624-9537
	Ryan Whitchurch – Responder	(503) 248-5600
	Chris Whitehead – Responder	(206) 624-9537
	Michael Worden – Responder	(206) 624-9537

Agency/Company	Contact Persons/Position	Phone Number
Emergency and Rapid Response Services (Environmental Quality Management, Inc.)	Patrick Heyneman – Response Manager	(208) 514-5244
	Jerry Wade – Removal Manager	(425) 673-2900
Property Owner/Landlord for Ferry Street Property	Mark Okazaki	(503) 253-6152
River City	Jonathan Sheckard – Project Manager	(503) 252-6144
	Ben McCraw – On-site Representative	(503) 997-4478
National Response Corporation	Bob Ransdell – Project Manager	(503) 283-1150
	Perry Stayton – Foreman	(503) 701-6449
	Harvey Quaife – Forman	
WasteXpress Environmental Services	Dwayne Neukom – Project Manager	(503) 793-0750

4. BACKGROUND

In early October 2013, the Albany Fire Department (AFD) became aware of a potential public safety and health hazard involving ATI at 140 SW Queen Avenue and 2830 SW Ferry Street in Albany, Oregon. ATI had been operating on these leased properties since 2004, manufacturing a soil additive and fertilizer that was used to improve crop irrigation efficiency. The Queen Avenue property housed ATI's main production facility and office, while the Ferry Street location served as the research and development (R&D) facility, though some steps in production may have been conducted at the Ferry Street facility. Some steps in production, such as dewatering, were conducted at the Ferry Street facility. The company ceased operations due to bankruptcy on Friday, October 11, 2013.

ATI's production process included various hazardous substances and generated various waste streams. These materials were left at ATI's Ferry Street location and at ATI's Queen Avenue location when ATI ceased operations and abandoned its production facilities. Of concern at the Ferry Street site were tanks containing methanol, wastewater, and other chemicals such as phosphoric acid and potassium hydroxide that potentially could adversely impact human health and the environment. Acrylonitrile was stored in a tank at the Queen Avenue facility and was transferred in smaller containers to the Ferry Street location as needed for R&D or production purposes. Acrylonitrile (CAS 107-13-1) is a flammable, corrosive chemical that breaks down into several components, including toxic cyanide gas, at temperatures exceeding 800 degrees Fahrenheit (°F). Acrylonitrile has the potential to self-polymerize in an exothermic reaction that can release cyanide gas.

When ATI abandoned the facilities, the Albany Fire Department took steps to ensure the safety of the community and began working on a plan to secure the hazards left behind on both properties. City staff contacted EPA on Tuesday, October 15, 2013. EPA staff mobilized to the ATI Queen Avenue facility that same day. On Wednesday, October 16, two federal On-Scene Coordinators (OSCs) were in Albany with a team of START chemists, engineers, and other specialists, and Emergency and Rapid Response Services (ERRS) project managers, to evaluate the site conditions and develop plans to stabilize the site.

During the response, EPA coordinated with the Albany Fire Department, City of Albany Public Works Environmental Services, Albany City Attorney's Office, and Linn County Public Health. Representatives from ATI and both property owners who had leased the facilities to ATI cooperated with EPA.

5. ACTIVITIES

5.1 Response Activities

At approximately 2:30 p.m. on October 17, 2013, EPA OSCs Dan Heister and Mike Sibley, START, and the Emergency and Rapid Response Services (ERRS) contractors arrived at the Ferry Street facility to gain access from the property owner and to assess the hazards associated with the chemicals left on the site. START did not observe any acrylonitrile containers at the Ferry Street facility.

Upon entering the main building, START observed 17 totes containing approximately 275 gallons of waste liquid each in the product storage area. Six totes were labeled "Bottoms Water," eight were labeled "Boiler Water," two were labeled "Cooling Tower Water," and one was labeled "Tank Farm Containment Water." The labels on the totes also included handwritten pH values that ranged from 5.6 to 10.0.

START observed a 30-gallon drum and 5-gallon container of sulfuric acid stored in the same room with the totes. The laboratory in the northeast section of the building had two 1-gallon containers of muriatic acid and one empty 1-gallon container of ethyl alcohol under the chemical hood, and multiple containers of methanol in a flammable cabinet. Two approximately 3,000-gallon methanol tanks were located in a tank farm containment area. The methanol tanks had a nitrogen gas system that provided a nitrogen blanket over the liquid methanol in the tanks, presumably for the purpose of fire protection. START observed a digital readout display in the tank farm, which indicated that the Polisher #1 TK-1070 vessel was one-third full, but the contents were not verified.

Nineteen empty, unlabeled 55-gallon drums were observed west of the building across from an ammonium sulfate waste water tank and the HazMat Building. The former facility operators used the HazMat Building to store acrylonitrile containers and to inject acrylonitrile into the production process. The chemical mixture was piped from the HazMat Building to the graft reactor. START observed that the graft reactor vessel was propped open with blocks of wood. There was a white solid residue in the reactor exposed to the atmosphere. START sampled residue on October 18, 2013 (sample number 13101106). The sample from the graft reactor residue was analyzed for total cyanide, metals regulated under the Resource Conservation and Recovery Act (RCRA), corrosivity towards steel, and flash point. The sample results indicated the presence of cyanide below treatment standards for hazardous waste. The sample results for RCRA metals and corrosivity towards steel were not above hazardous waste screening levels. The graft reactor sample was non-flammable, with a flash point greater than 110 degrees centigrade (^{o}C). See Table B-1 for a summary of the sample results.

START measured headspace of the totes in the Dough Storage area with a hydrogen cyanide detector. Measurements indicated that two of the 17 totes had hydrogen cyanide gas in the headspace. START collected samples from these two totes, which had non-hazardous waste labels marked "Tank Farm Containment Water" (sample 13101101) and "Bottoms Water" (sample 13101103). START collected samples from three other totes labeled "Bottoms Water" (samples 13101104 and 13101105) and "Boiler Water" (sample 13101102 and duplicate sample 13101107). The samples were submitted for laboratory analysis for cyanide, RCRA metals, corrosivity towards steel, and flash point. The results did not exceed hazardous waste screening levels or treatment standards for RCRA metals, corrosivity towards steel, or flammability. Although the headspace air measurements from the totes indicated the presence of cyanide vapors, it is possible that the electrochemical sensors may have encountered a cross-sensitivity resulting

in the false detection. Wastewater samples are summarized in Table 1 and Attachment B. Validated laboratory reports are provided in Attachment C.

EPA, START, and ERRS demobilized from the Ferry Street site at approximately 1:00 p.m. on October 18, 2013.

5.2 Removal Activities

On December 12, 2013, the PRP subcontractor, WasteXpress Environmental Services (WastExpress), collected samples from each of the 18 liquid waste totes staged at the Ferry Street facility. Each tote was sampled and analyzed for flash point. Composite samples of the totes were collected for volatile organic compound (VOC) (Table B-2) and total metals analyses (Table B-3), based on the wastewater source label and its appearance (Attachment D). On December 17, 2013, START mobilized to the Ferry Street site and collected samples from the methanol distillation process while the other PRP subcontractor, National Response Corporation (NRC), began removing the contents of the tanks, vessels, piping systems, and other industrial equipment. START collected samples from the methanol supply tank (13101110), methanol still feed tank (13101111), the still bottoms tank (13101112), and collected a trip blank (13101113). The laboratory analysis indicated that the tank contents were flammable liquids containing methanol (Table B-4) and other VOCs (Table B-2). The laboratory did not detect any elevated levels of metals (Table B-3) or acrylonitrile above hazardous waste criteria in the samples collected by START on December 17, 2013 (Attachment B and C).

On December 18, 2013, NRC completed the removal of the contents in the methanol supply tank, the methanol still feed tanks, and the still bottoms tank. In January 2014, the PRP contractor, River City, and the subcontractors, NRC and WasteXpress, completed the decontamination of the piping, vessels, and equipment, and transported the chemicals and wastes off site for disposal.

On March 12, 2014, because of the contamination remaining after cleanup work being performed at the Queen Avenue facility, EPA and START mobilized to the Ferry Street facility to verify the reported cleanup activities. START evaluated additional piping for acrylonitrile and methanol using a flame ionization detector (FID) and colorimetric absorbent tubes, and used pH test strips to evaluate acidic and caustic residue. During investigation of the distillation column, methanol tanks, and various piping locations around the distillation column, liquid methanol was discovered and confirmed in the distillation receiver tank (sample 1310116) and in the methanol sock filters next to the methanol tanks (samples 1310117 and 13101118). Elevated FID readings were also identified in the headspaces of the methanol still feed tank and the methanol supply tank. START also collected samples from the two granular activated carbon (GAC) vessels (Samples 13101114 and 13101115). One of the GAC vessels (Sample 13101115) contained elevated acrylonitrile levels (Attachments B and C). See Table B-5 for liquid results and Table B-6 for solid results. During the investigation of piping around the saponification reactor, there were elevated FID readings in the graft copolymer line, as well as high and low pH in the ports associated with the potassium hydroxide and phosphoric acid, respectively.

On March 25, 2014, START and EPA performed a site walk to label all locations where contamination had been discovered through the previous monitoring and sampling on March 12, 2014, and to ensure that all locations had been identified. During this site walk, EPA and START identified a pump containing liquid with a pH of 14, suspected to be sodium hydroxide. They also identified acrylonitrile vapors in piping from the HazMat Building that was previously thought to be clear or was not documented as containing chemical hazards. All of the samples collected on March 12 or 25, 2014, and the monitoring points associated with the process, supported the need for additional clean-up or removal of contaminated piping and vessels.

Between April 8 and 11, 2014, EPA, START, and ERRS mobilized to the Ferry Street facility to conduct an EPA-led removal to address the remaining acrylonitrile, methanol, and other hazardous materials. The ERRS contractor removed piping that EPA and START had previously identified to contain acrylonitrile vapors, acidic or caustic pH levels, and methanol. ERRS also removed the carbon media from the two GAC vessels that contained elevated levels of acrylonitrile. A plastic sheeting tent was placed over the GAC vessels to contain airborne acrylonitrile within the exclusion zone. Continuous air monitoring for acrylonitrile and other potential airborne contaminants was conducted during the removal. No elevated acrylonitrile levels were measured outside the exclusion zone. The 36 55-gallon drums containing 17,100 pounds of carbon media removed from the vessels were staged at the facility until off-site disposal at a licensed facility could be arranged (Table 1). All of the hazardous waste was transported off site on April 16, 2014 (Attachment E). There was no further EPA, START, or ERRS cleanup or oversight activity at the ATI Ferry Street Property after April 16, 2014.

Table 1 – Hazardous Waste Removed During EPA Operations

Date Removed	Substance	Amount
April 16, 2014	Acrylonitrile Contaminated Piping	1,540 pounds
April 16, 2014	Acrylonitrile Contaminated Carbon	17,100 pounds
April 16, 2014	Methanol and Rinse Water	90 gallons

6. SUMMARY AND CONCLUSIONS

EPA, START, and ERRS evaluated the ATI Queen Avenue property and the ATI Ferry Street property in response to a request from the City of Albany, Oregon. EPA, START, and ERRS performed a site walk at the Ferry Street property on October 17, 2013, to evaluate chemical storage conditions and assess the threat or risk of release. On October 18, 2013, START performed headspace air measurements on wastewater totes that were stored inside the Ferry Street building. Hydrogen cyanide gas was detected in two of the 17 totes. START collected samples from five totes on October 18, 2013. These samples were analyzed for the presence of cyanide, RCRA metals, corrosivity towards steel, and flash point. START also sampled residual material in the graft reactor on October 18, 2013. Laboratory results did not exceed screening levels or treatment standards for hazardous waste.

On December 17, 2013, START performed oversight of the PRP contractors to ensure the decontamination of the piping, vessels, and equipment, and transport of the chemicals and wastes off site for disposal. START also performed confirmation sampling of the contents in the methanol supply tank, the methanol still feed tanks, and the still bottoms tank to verify their contents. The laboratory analysis indicated that the tank contents were flammable liquids containing methanol and other VOCs. In January 2014, the PRP contractors stated that they had completed the decontamination of the equipment and transport of the chemicals and wastes off site for disposal.

On March 12, 2014, START evaluated additional piping for acrylonitrile and methanol using an FID and colorimetric absorbent tubes, and used pH test strips to evaluate acidic and caustic residue. It was determined through the course of the investigation that the hazards associated with the acrylonitrile and corrosive chemicals still persisted on site and required additional remediation. An EPA-led effort was conducted April 8 to 11, 2014, to remove all remaining chemical hazards prior to any removal and/or selling of equipment by the owner of the property. All hazardous waste was removed from the site by April 16, 2014

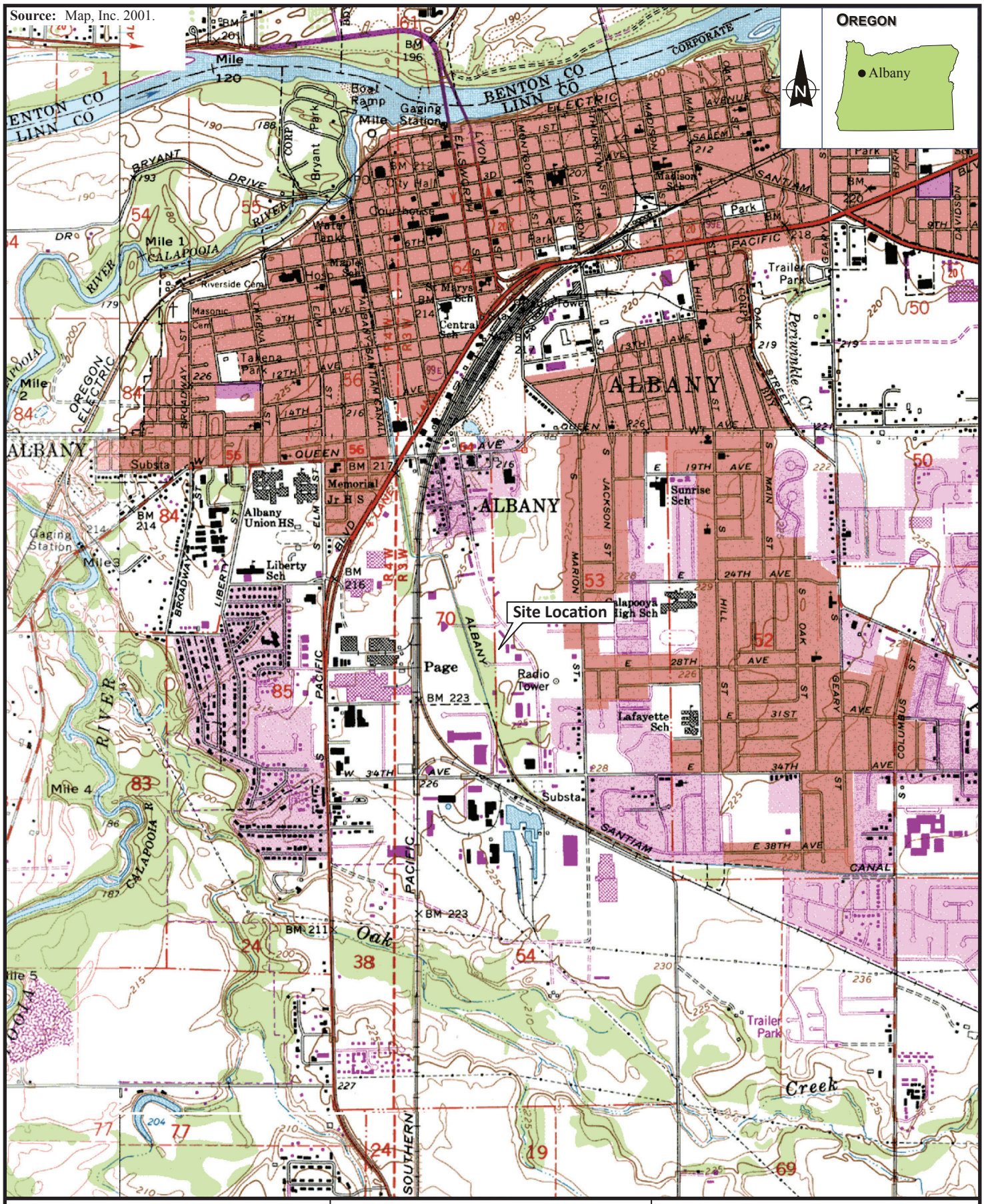
7. References

Ecology and Environment, Inc. (E & E), 2014. *Final Absorbent Technologies, Inc. Queen Avenue Property Response Trip Report*. July 23, 2014. Prepared for the U.S. Environmental Protection Agency, Seattle, Washington, under Contract No. EP-S7-13-07, TDD No. 13-10-0006.

Ecology and Environment, Inc. (E & E), 2013. *Final Queen Avenue Property Response Site-Specific Sampling Plan*. October 18, 2013. Prepared for the U.S. Environmental Protection Agency, Seattle, Washington, under Contract No. EP-S7-13-07, TDD No. 13-10-0005 and 13-10-0006.

Environmental Protection Agency (EPA), 2013a. *Hazardous Waste Characteristics, A User-Friendly Reference Document*. October 30, 2013. http://www.epa.gov/osw/hazard/wastetypes/wasteid/char/hw-char.pdf. Updated October 2009.

Environmental Protection Agency (EPA), 2013b. *Land Disposal Restrictions: Summary of Requirements*. October 30, 2013. http://www.epa.gov/osw/hazard/tsd/ldr/ldr-sum.pdf, Revised August 2011.



ecology and environment, inc.
Global Environmental Specialists
Seattle, Washington

FERRY STREET PROPERTY ATI
Albany, Oregon

Figure 1
SITE LOCATION MAP

0 1000 2000
Approximate Scale in Feet

Date:	Drawn by:	
11/4/13	AES	10:START-IV\13100006\fig 1

ecology and environment, inc.
Global Environmental Specialists
Seattle, Washington

FERRY STREET PROPERTY ATI
Albany, Oregon

0 50 100
Approximate Scale in Feet

Figure 2
SITE LAYOUT

Date:	Drawn by:	
6/3/14	AES	10:START-IV\13100006\fig 2

ATTACHMENT A – Photographic Log

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FERRY STREET PROPERTY ATI SITE
Albany, Oregon

TDD Number: 13-10-0006
Photographed by: Michael Worden (MW), Jim Petersen (JP), Ryan Whitchurch (RW)

Photo 1 Methanol supply tank TK-2070, methanol still feed tank TK-2020.

Direction: West *Date: 10/17/13* *Time: 14:51* *Taken by: MW*

Photo 2 5 gallon and 30 gallon containers of sulfuric acid.

Direction: South *Date: 10/17/13* *Time: 15:09* *Taken by: MW*

Photo 3 Tote storage inside building in Dough Storage Area.

Direction: East *Date: 10/17/13* *Time: 15:10* *Taken by: JP*

Photo 4 55-gallon drums stored on the western edge of the property.

Direction: Northwest *Date: 10/17/13* *Time: 15:36* *Taken by: MW*

Photo 5 Ammonium sulfate waste water tank.

Direction: East *Date: 10/17/13* *Time: 15:41* *Taken by: MW*

Photo 6 HazMat building where containers of acrylonitrile were staged and injected into the process stream.

Direction: East *Date: 10/17/13* *Time: 15:42* *Taken by: MW*

Photo 7 Graft reactor wedged open with wooden blocks.

Direction: East *Date: 10/17/13* *Time: 15:46* *Taken by: MW*

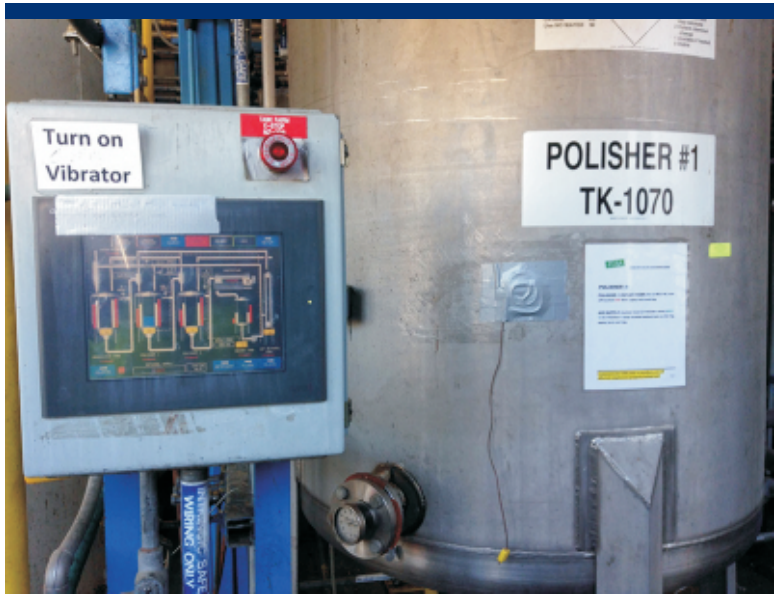

Photo 8 Display states 33% in Polisher #1 Vessel (right), all others on display zero.

Direction: South *Date: 10/17/13* *Time: 16:04* *Taken by: MW*

Photo 9 START personnel measuring hydrogen cyanide vapor concentration in headspace of waste tote.

Direction: East *Date: 10/18/13* *Time: 09:09* *Taken by: MW*

Photo 10 Methanol tanks, polisher tanks, and Stills Bottoms Tank Farm.

Direction: South *Date: 10/18/13* *Time: 10:26* *Taken by: MW*

Photo 11 START collecting a sampling from a waste tote for laboratory analysis.

Direction: Southeast *Date: 10/18/13* *Time: 10:57* *Taken by: MW*

Photo 12 Graft reactor residue sampling.

Direction: Southeast *Date: 10/18/13* *Time: 11:49* *Taken by: MW*

Photo 13 Acrylonitrile line inside HazMat building.

Direction: Up *Date: 11/8/13* *Time: 12:06* *Taken by: JP*

Photo 14 Screening graft copolymer line to Soaponification reactor.

Direction: East *Date: 3/12/14* *Time: 10:46* *Taken by: MW*

Photo 15 Potassium hydroxide port to Saponification reactor containing pH approximately 11.

Direction: Southeast *Date: 3/12/14* *Time: 11:10* *Taken by: MW*

Photo 16 Screening of methanol still feed tank.

Direction: South *Date: 3/12/14* *Time: 12:23* *Taken by: MW*

Photo 17 Screening open piping behind stills bottom tank.

Direction: South *Date: 3/12/14* *Time: 13:22* *Taken by: MW*

Photo 18 Screening of stack off methanol sock filters.

Direction: South *Date: 3/12/14* *Time: 13:34* *Taken by: MW*

Photo 19 Screening of granular activated carbon vessels adjacent to HazMat building.

Direction: Northeast *Date: 3/12/14* *Time: 15:57* *Taken by: MW*

Photo 20 ERRS workers using a Drum Vacuum to remove residual product from pipes.

Direction: East *Date: 4/8/14* *Time: 07:46* *Taken by: JP*

Photo 21 ERRS workers draining residual methanol into a drum.

Direction: Southwest *Date: 4/8/14* *Time: 08:33* *Taken by: JP*

Photo 22 Process piping removed by ERRS and bundled for pickup by hazardous waste transporter.

Direction: West *Date: 4/10/14* *Time: 07:50* *Taken by: RW*

Photo 23 Plastic enclosure erected by ERRS around GAC Vessels prior to removing AN-contaminated carbon media.

Direction: North *Date: 4/10/14* *Time: 08:25* *Taken by: RW*

Photo 24 View inside GAC tent depicting ERRS operating the vacuum.

Direction: South *Date: 4/10/14* *Time: 13:59* *Taken by: RW*

Photo 25 View inside GAC tent depicting ERRS feeding the suction line into the GAC Vessel to remove the carbon.

Direction: South *Date: 4/10/14* *Time: 14:00* *Taken by: RW*

Photo 26 GAC Vessels tented by ERRS prior to suctioning out AN contamination from the second vessel.

Direction: North *Date: 4/11/14* *Time: 09:06* *Taken by: RW*

Photo 27 36 55-gallon drums containing AN contaminated carbon granules, ready for pickup by hazardous waste transporter.

Direction: East *Date: 4/11/14* *Time: 13:05* *Taken by: RW*

ATTACHMENT B – Data Summary Tables

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Table B-1 – Ferry Street Sample Data Summary Table Samples Collected October 18, 2013							
Sample Number	**13101101**	**13101102**	**13101103**	**13101104**	**13101105**	**13101107**	**13101106**
Sample Location	**FT01**	**FT02**	**FT03**	**FT04**	**FT05**	**FT06**	**FR01**
Analyte							
RCRA Metals (ug/L)							**(mg/kg)**
Arsenic	4.6 JQ	0.6	1.7	0.5	11.3	0.6	1.2 JQ
Barium	36.9	5.77	6.09	140	4.23	8.97	0.15 U
Cadmium	0.295	0.223	0.883	0.081 U	0.306	0.233	0.02 U
Chromium	6.88	0.75	32.2	1.11	2.36	0.85	23.4 JK
Lead	3.6	2.66	12.6	4.74	20.2	2.86	0.2 U
Mercury	0.05 JQ	0.2 U	0.04 JQ	0.1 JQ	0.02 U	0.02 U	0.002 U
Selenium	2 U	0.5 JQ	4.5	0.5 JQ	0.5 JQ	0.6 JQ	1.4 JQ
Silver	0.8 U	0.378 JQ	0.164 JQ	0.146 JQ	0.08 U	0.314 JQ	0.1 UJK
Cyanide, Total (mg/L)	0.003 JQ	0.01 U	0.05	0.015	0.007 JQ	0.01 U	31 (mg/kg)
Flash Point (^{o}C)	> 110	> 110	> 110	> 110	> 110	> 110	> 110
Corrosivity Towards Steel (mm/year)	6.35 UJK	6.35 UJK	6.35 UJK	6.35 UJK	6.35 UJK	6.35 UJK	6.35 UJK

Key

^{o}C = Degrees celsius.
J = The associated numerical value is an approximate concentration.
K = Unknown bias.
mg/L = Milligrams per liter.
mm/year = Millimeters per year.
na = Not Analyzed
Q = The associated numerical value is less than the sample quantitation limit.
U = Not detected above the sample quantitation limit.
ug/L = micrograms per liter.

Table B-2 - VOC Results Data Summary Samples Collected December 17, 2013 EPA Method 8260C Results in µg/L				
Sample Number	**13101110**	**13101111**	**13101112**	**13101113**
Date	**12/17/2013**	**12/17/2013**	**12/17/2013**	**12/17/2013**
Location ID	**ST-01**	**SF-01**	**SB-01**	**TB-01**
Analyte				
1,1,1,2-Tetrachloroethane	25 U	25 U	0.5 U	0.5 U
1,1,1-Trichloroethane (TCA)	25 U	25 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	25 U	25 U	0.5 U	0.5 U
1,1,2-Trichloroethane	25 U	25 U	0.5 U	0.5 U
1,1-Dichloroethane (1,1-DCA)	25 U	25 U	0.5 U	0.5 U
1,1-Dichloroethene (1,1-DCE)	25 U	25 U	0.5 U	0.5 U
1,1-Dichloropropene	25 U	25 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	100 U	100 U	2 U	2 U
1,2,3-Trichloropropane	25 U	25 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	100 U	100 U	2 U	2 U
1,2,4-Trimethylbenzene	**110**	100 U	2 U	2 U
1,2-Dibromo 3-Chloropropane	100 U	100 U	2 U	2 UJL
1,2-Dibromoethane (EDB)	100 U	100 U	2 U	2 U
1,2-Dichlorobenzene	25 U	25 U	0.5 U	0.5 U
1,2-Dichloroethane (EDC)	25 U	25 U	0.5 U	0.5 U
1,2-Dichloropropane	25 U	25 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	100 U	100 U	2 U	2 U
1,3-Dichlorobenzene	25 U	25 U	0.5 U	0.5 U
1,3-Dichloropropane	25 U	25 U	0.5 U	0.5 U
1,4-Dichlorobenzene	25 U	25 U	0.5 U	0.5 U
2,2-Dichloropropane	25 U	25 U	0.5 U	0.5 U
2-Butanone (MEK)	**4100**	**3400**	**35**	20 U
2-Chlorotoluene	100 U	100 U	2 U	2 U
2-Hexanone	1000 U	1000 U	20 U	20 U
4-Chlorotoluene	100 U	100 U	2 U	2 U
4-Isopropyltoluene	100 U	100 U	2 U	2 U
4-Methyl-2-pentanone (MIBK)	1000 U	1000 U	20 U	20 U
Acetone	**8900**	**8200**	**110**	**22**
Acrylonitrile	250 U	250 U	5 U	5 U
Benzene	25 U	25 U	0.5 U	0.5 U
Bromobenzene	100 U	100 U	2 U	2 U
Bromochloromethane	25 U	25 U	0.5 U	0.5 U
Bromodichloromethane	25 U	25 U	0.5 U	0.5 U
Bromoform	25 U	25 U	0.5 U	0.5 U
Bromomethane	25 U	25 U	0.5 UJL	0.5 U
Carbon Disulfide	25 U	25 U	0.5 U	0.5 UJL
Carbon Tetrachloride	25 U	25 U	0.5 U	0.5 U
Chlorobenzene	25 U	25 U	0.5 U	0.5 U
Chloroethane	25 U	25 U	0.5 U	0.5 U
Chloroform	25 U	25 U	0.5 U	0.5 U

Table B-2 - VOC Results Data Summary Samples Collected December 17, 2013 EPA Method 8260C Results in µg/L				
Sample Number	**13101110**	**13101111**	**13101112**	**13101113**
Date	**12/17/2013**	**12/17/2013**	**12/17/2013**	**12/17/2013**
Location ID	**ST-01**	**SF-01**	**SB-01**	**TB-01**
Analyte				
Chloromethane	25 U	25 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	25 U	25 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	25 U	25 U	0.5 U	0.5 U
Dibromochloromethane	25 U	25 U	0.5 U	0.5 U
Dibromomethane	25 U	25 U	0.5 U	0.5 U
Dichlorodifluoromethane (CFC 12)	25 U	25 U	0.5 U	0.5 U
Dichloromethane (Methylene Chloride)	100 U	100 U	2 U	2 U
Ethylbenzene	**69**	**56**	0.5 U	0.5 U
Hexachlorobutadiene	100 U	100 U	2 U	2 UJL
Isopropylbenzene	100 U	100 U	2 U	2 U
m,p-Xylenes	**360**	**280**	0.5 U	0.5 U
Naphthalene	100 U	100 U	2 U	2 U
n-Butylbenzene	100 U	100 U	2 U	2 U
n-Propylbenzene	100 U	100 U	2 U	2 U
o-Xylene	**200**	**160**	0.5 U	0.5 U
sec-Butylbenzene	100 U	100 U	2 U	2 U
Styrene	25 U	25 U	0.5 U	0.5 U
tert-Butylbenzene	100 U	100 U	2 U	2 U
Tetrachloroethene (PCE)	25 U	25 U	0.5 U	0.5 U
Toluene	**120**	**95**	0.5 U	0.5 U
trans-1,2-Dichloroethene	25 U	25 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	25 U	25 U	0.5 U	0.5 U
Trichloroethene	25 U	25 U	0.5 U	0.5 U
Trichlorofluoromethane (CFC 11)	25 U	25 U	0.5 U	0.5 U
Vinyl Chloride	25 U	25 U	0.5 U	0.5 U

Note: Results in **BOLD** indicated a laboratory detection above the reporting limit

Key:

µg/L = micrograms per liter

U = not detected at laboratory reporting limit

UJL = not detected at laboratory reporting limit; reporting limit is estimated with low bias

VOC = Volatile Organic Compounds

Table B-3 - Metals Results Data Summary Samples Collected December 17, 2013 EPA Method 6020A & 7470A Results in µg/L				
Sample Number	**13101110**	**13101111**	**13101112**	**13101113**
Date	**12/17/2013**	**12/17/2013**	**12/17/2013**	**12/17/2013**
Location ID	**ST-01**	**SF-01**	**SB-01**	**TB-01**
Analyte				
Arsenic	10 UJL	40 UJL	35.8 JL	NA
Barium	**1.31**	1 U	**3.35**	NA
Cadmium	0.4 U	0.4 U	0.4 U	NA
Chromium	60 U	60 U	**9.2**	NA
Lead	**0.55**	**0.43**	**0.52**	NA
Mercury	2 U	2 U	0.8 U	NA
Selenium	20 UJL	20 UJL	20 UJL	NA
Silver	0.4 U	0.4 U	0.4 U	NA

Note: Results in **BOLD** indicated a laboratory detection above the reporting limit

Key:

NA = Not Analyzed

µg/L = micrograms per liter

U = not detected at laboratory reporting limit

UJL = not detected at laboratory reporting limit; reporting limit is estimated with low bias

VOC = Volatile Organic Compounds

Table B-4 - Various Other Results Data Summary Samples Collected December 17, 2013					
Sample Number		**13101110**	**13101111**	**13101112**	**13101113**
Date		**12/17/2013**	**12/17/2013**	**12/17/2013**	**12/17/2013**
Location ID		**ST-01**	**SF-01**	**SB-01**	**TB-01**
Analyte	**Units**				
Cyanide, Total	(mg/L)	0.01 U	0.01 U	0.01 U	NA
pH		9.7	10	8.85	NA
Flash Point	(^{o}C)	**< 20**	**< 20**	> 110	NA
Methanol	(µg/mL)	**800000**	**670000**	**310**	0.5 U

Note: Results in **BOLD** indicated a laboratory detection above the reporting limit

Key:

^{o}C = degrees Centrigrade
NA = Not Analyzed
mg/L = miligrams per liter
µg/mL = micrograms per mililiter
U = not detected at laboratory reporting limit

Table B-5 - Liquid Sample Data Summary				
Sample Number	**13101116**	**13101117**	**13101118**	**13101123**
Sample Date	**3/12/2014**	**3/12/2014**	**3/12/2014**	**3/13/2014**
Sample Location	**DRT01**	**MSF01**	**MSF02**	**TB03**
Sample Location Description	**Distillation Receiver Tank**	**Northern Menthanol Sock Filter**	**Souther Methanol Sock Filter**	**Trip Blank #3**
Analyte				
Acrylonitrile (ug/L)	18 JQ	100 UJL	13 JQ	5 UJL
Methanol (ug/mL)	730000 JL	240000 JL	760000 JL	0.5 UJL
Flash Point (^{o}C)	< 20 JK	> 110 JK	< 20 JK	NA

Key

^{o}C = Degrees Centrigrade

JL = Positive detection, but approximate concentration with low bias

JK = Estimated result with unknown bias

JQ = Positive detection, result is between method detection limit and reporting limit

NA = Not Analyzed

U = Not detected at indicated reporting limit

UJL = Not detected at the indicated estimated reporting limit with a low bias

ug/L = micrograms per liter

ug/mL = micrograms per milliliter.

Table B-6 - Solid Sample Data Summary						
Sample Number	**13101114**	**13101115**	**13101119**	**13101120**	**13101121**	**13101122**
Sample Date	**3/12/2014**	**3/12/2014**	**3/12/2014**	**3/12/2014**	**3/12/2014**	**3/12/2014**
Sample Location	**FCW01**	**FCE01**	**NG01**	**FM01**	**NG02**	**FM02**
Sample Location Description	**Western Carbon Vessel**	**Eastern Carbon Vessel**	**Lab Jar Labeled 1-4-10**	**Lab Jar Labeled 5-5-10**	**Lab Jar Labeled 03-29-12**	**Lab Jar Labeled 03-20-12**
Serial Number	**16652**	**16649**	**N0041629**	**F.10124.1414**	**NG120890225**	**FA120801405**
Analyte						
Acrylonitrile (mg/kg)	130 JL	6300 JL	0.12 UJL	0.097 UJL	0.0092 JQ	0.0034 JQ
Methanol	NA	NA	NA	NA	NA	NA
pH	7.25 JK	7.27 JK	NA	NA	NA	NA

Key

JK = Estimated result with unknown bias

JL = Estimated result with low bias

JQ = Positive detection, result is between method detection limit and reporting limit

NA = Not Analyzed

mg/kg = Milligrams per kilogram

U = Not detected at indicated reporting limit

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ATTACHMENT C – Validated Laboratory Reports

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MEMORANDUM

DATE: October 25, 2013

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington

SUBJ: **Inorganic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 1 solid and 6 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. Total Cyanide (Standard Method 4500-CN-E) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BM) for these sample results.

The samples were numbered:

13101101	13101102	13101103	13101104	13101105	13101106	13101107

Data Qualifications:

The samples were maintained at < 6°C. The samples were collected on October 17 and 18, 2013, and were analyzed on October 20, 2013, for cyanide. All samples were analyzed within QC holding time limits of less than 14 days between collection and analysis.

All initial and continuing calibration results were within the QC limits. There were no detections in the method or continuing calibration blanks. The duplicate result was within QC limits. The matrix spike, matrix spike duplicate, and blank spike recoveries were all within QC limits.

In the reviewers' professional judgment, all sample results were acceptable except as noted. Sample results less than the method reporting limit but greater than the method detection limit were qualified as estimated quantities (JQ).

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

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Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1311345
Project:	Site #10ZZ	**Date Collected:**	10/17/13 - 10/18/13
Sample Matrix:	Aqueous Liquid	**Date Received:**	10/19/13
Analysis Method:	SM 4500-CN- E	**Units:**	mg/L
Prep Method:	SM 4500-CN-C	**Basis:**	NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
13101102	K1311345-002	~~ND U~~	0.010 U	0.003	1	10/20/13 08:30	10/20/13	
13101103	K1311345-003	**0.050**	0.020	0.006	2	10/20/13 08:30	10/20/13	
~~13101003~~	~~K1311345-004~~	~~**6.50**~~	~~0.50~~	~~0.15~~	~~50~~	~~10/20/13 08:30~~	~~10/20/13~~	
13101002	K1311345-005	~~**5.33**~~	~~0.50~~	~~0.15~~	~~50~~	~~10/20/13 08:30~~	~~10/20/13~~	
13101001	K1311345-006	**16.3**	2.0	0.6	200	10/20/13 08:30	10/20/13	
13101107	K1311345-007	~~ND U~~	0.010 U	0.003	1	10/20/13 08:30	10/20/13	
13101101	K1311345-008	**0.003** J	0.010	0.003	1	10/20/13 08:30	10/20/13	
13101104	K1311345-009	**0.015**	0.010	0.003	1	10/20/13 08:30	10/20/13	
13101105	K1311345-010	**0.007** J	0.010	0.003	1	10/20/13 08:30	10/20/13	
~~Method Blank~~	~~K1311345-MB1~~	~~ND U~~	~~0.010~~	~~0.003~~	~~1~~	~~10/20/13 08:30~~	~~10/20/13~~	

10-25-13

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1311345
Project:	Site #10ZZ	**Date Collected:**	10/18/13
Sample Matrix:	Misc. Solid	**Date Received:**	10/19/13
Analysis Method:	SM 4500-CN- E Modified	**Units:**	mg/Kg
Prep Method:	SM 4500-CN-C Modified	**Basis:**	Dry

Cyanide, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
13101106	K1311345-001	**31**	11	4	50	10/20/13 08:30	10/20/13	
~~Method Blank~~	~~K1311345-MB2~~	~~ND U~~	~~0.20~~	~~0.06~~	~~1~~	~~10/20/13 08:30~~	~~10/20/13~~ MW	

MW 10-25-13

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MEMORANDUM

DATE: October 29, 2013

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 1 solid and 6 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. Flash Point (EPA Method 1020A) and Corrosivity Towards Steel (EPA Method 1110/1110 Modified) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BM) for these sample results.

The samples were numbered:

13101101	13101102	13101103	13101104	13101105	13101106	13101107

Data Qualifications:

The samples were maintained at < 6°C. The samples were collected on October 18, 2013, and were analyzed on October 20, 2013, for flash point and on October 19 through 21, 2013, for Corrosivity Towards Steel. All samples were analyzed within QC holding time limits of less than 14 days between collection and flash point analysis. No sample collection, preservation, and handling guidelines exist for EPA Method 1110.

All flash point laboratory control standard results were within QC limits. There were no detections in the flash point or Corrosivity Towards Steel method blanks. The flash point duplicate results were within QC limits. Corrosivity duplicates were not analyzed as recommended in the method; therefore sample results were qualified as estimated quantities with an unknown bias (JK or UJK).

In the reviewers' professional judgment, all sample results were acceptable except as noted.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

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Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1311346
Project:	Site # 10ZZ	**Date Collected:**	10/17/13 - 10/18/13
Sample Matrix:	Aqueous Liquid	**Date Received:**	10/19/13
Analysis Method:	1020A	**Units:**	deg C
		Basis:	NA

Flash Point

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
13101102	K1311346-002	>110	-	-	1	10/20/13 14:49	
13101103	K1311346-003	>110	-	-	1	10/20/13 14:49	
~~13101003~~	~~K1311346-004~~	~~>110~~	~~-~~	~~-~~	~~1~~	~~10/20/13 14:49~~	
13101002	K1311346-005	>110	-	-	1	10/20/13 14:49	
13101001	K1311346-006	>110	-	-	1	10/20/13 14:49	
13101107	K1311346-007	>110	-	-	1	10/20/13 14:49	
13101101	K1311346-008	>110	-	-	1	10/20/13 14:49	
13101104	K1311346-009	>110	-	-	1	10/20/13 14:49	
13101105	K1311346-010	>110	-	-	1	10/20/13 14:49	
~~Method Blank~~	~~K1311346-MB1~~	~~>110~~	~~-~~	~~-~~	~~1~~	~~10/20/13 14:49~~	

MW 10/29/13

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1311346
Project:	Site # 10ZZ	**Date Collected:**	10/18/13
Sample Matrix:	Misc. Solid	**Date Received:**	10/19/13
Analysis Method:	1020A Modified	**Units:**	deg C
		Basis:	As Received

Flash Point

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
13101106	K1311346-001	>110	-	-	1	10/20/13 14:49	
~~Method Blank~~	~~K1311346-MB2~~	~~>110~~	~~-~~	~~-~~	~~1~~	~~10/20/13 14:49~~ MW	

MW
10-29-13

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1311346
Project:	Site # 10ZZ	**Date Collected:**	10/18/2013
Sample Matrix:	Misc. solid	**Date Received:**	10/19/2013

Corrosivity Towards Steel

Prep Method:	None	Units:	mm/year
Analysis Method:	1110 Modified	Basis:	As Received
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101106	K1311346-001	6.35 UJK	-	1	NA	10/19/2013	~~ND~~ MW	
~~Method Blank~~	~~K1311346-MB~~	~~6.35~~	~~-~~	~~1~~	~~NA~~	~~10/19/2013~~	~~ND~~ MW	

MW 10-29-13

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client: Ecology And Environment, Incorporated
Project: Site # 10ZZ
Sample Matrix: Aqueous liquid

Service Request: K1311346
Date Collected: 10/18/2013
Date Received: 10/19/2013

Corrosivity Towards Steel

Prep Method: NONE
Analysis Method: 1110
Test Notes:

Units: mm/year
Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101102	K1311346-002	6.35 UJK	-	1	NA	10/19/2013	~~ND~~ MW	
13101103	K1311346-003	6.35 UJK	-	1	NA	10/19/2013	~~ND~~ MW	
~~13101003~~	~~K1311346-004~~	~~6.35~~	~~-~~	~~1~~	~~NA~~	~~10/19/2013~~	7.3	
13101002	K1311346-005	6.35	-	1	NA	10/20/2013	6.5	
13101001	K1311346-006	6.35	-	1	NA	10/20/2013	ND MW	
13101107	K1311346-007	6.35 UJK	-	1	NA	10/20/2013	~~ND~~ MW	
13101101	K1311346-008	6.35 UJK	-	1	NA	10/20/2013	~~ND~~ MW	
13101104	K1311346-009	6.35 UJK	-	1	NA	10/21/2013	~~ND~~ MW	
13101105	K1311346-010	6.35 UJK	-	1	NA	10/21/2013	~~ND~~ MW	
Method Blank	K1311346-MB	6.35	-	1	NA	10/19/2013	ND	
Method Blank	K1311346-MB	6.35	-	1	NA	10/20/2013	ND	
Method Blank	K1311346-MB	6.35		1	NA	10/21/2013	~~ND~~ MW	

MW 10-29-13

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MEMORANDUM

DATE: October 29, 2013

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 1 solid and 6 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. RCRA Metals (EPA Methods 6010C, 6020A, 7470A and 7471B) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BM) for these sample results.

The samples were numbered:

13101101	13101102	13101103	13101104	13101105	13101106	13101107

Data Qualifications:

1. Sample Holding Times: Acceptable.

All liquid samples were preserved to a pH < 2. The samples were maintained at < 6°C. The samples were collected on October 18, 2013, and were analyzed by October 24, 2013, therefore meeting QC criteria of less than 6 months between collection, extraction, and analysis (28 days for mercury).

2. Initial and Continuing Calibration: Acceptable.

A minimum of one calibration standard and a blank were analyzed at the beginning of the ICP analysis sequence and after every 10 samples. No results were greater than 110% of the highest calibration standard. All ICP recoveries were within the QC limits. All AA recoveries were within QC limits.

3. Blanks: Satisfactory.

A preparation blank was analyzed for each 20 samples or per matrix per concentration level. Blanks were analyzed after each Initial or Continuing Calibration Verification. There were no detections in any blanks that affected sample results except the cadmium initial calibration blank result (0.017 ug/L). Associated sample results were qualified as not detected (U) if the sample result was less than five times the positive blank concentration.

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4. ICP Interference Check Sample: Acceptable.

An Interference Check Sample (ICS) was analyzed at the beginning of each sequence. All ICS (solution AB) results were within QC limits of 80% - 120% recovery.

5. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

6. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

7. ICP Serial Dilution: Acceptable.

A serial dilution analysis was performed per matrix per concentration or per sample delivery group, whichever was more frequent. All serial dilution results were within QC limits.

8. Matrix Spike Analysis: Satisfactory.

A matrix spike analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. Spike recoveries were within the QC limits except chromium and silver (low recoveries) associated with sample 13101106. Sample results associated with the low recovery outliers were qualified as estimated quantities with a low bias (JL or UJL).

9. Duplicate Analysis: Satisfactory.

A laboratory duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits except chromium associated with sample 13101106. Associated sample results were qualified as estimated quantities with an unknown bias (JK or UJK).

10. Laboratory Control Sample Analysis: Acceptable.

A Laboratory Control Sample (LCS) was analyzed per SDG per matrix. All LCS results were within the established control limits.

11. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

When multiple bias qualifiers were indicated for a given estimated result, the reviewer used professional judgment to apply a single bias qualifier.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1311346
Project No.:	NA	Date Collected:	10/18/13
Project Name:	Site # 10ZZ	Date Received:	10/19/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101101 Lab Code: K1311346-008

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	5.0	1.0	1.0	10/22/13	10/23/13	4.6	J	Q
Barium	6020A	0.50	0.20	1.0	10/22/13	10/23/13	36.9		
Cadmium	6020A	0.200	0.050	1.0	10/22/13	10/23/13	0.295		
Chromium	6020A	2.00	0.20	1.0	10/22/13	10/23/13	6.88		
Lead	6020A	0.200	0.050	1.0	10/22/13	10/23/13	3.600		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.05	J	Q
Selenium	6020A	10.0	2.0	1.0	10/22/13	10/23/13	2.0	U	
Silver	6020A	4.000	0.800	20.0	10/22/13	10/24/13	0.800	U	

Comments:

MW 10-29-13

ALS Group USA, Corp.
dba ALS Environmental

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	**Service Request:**	K1311346
Project No.:	NA	**Date Collected:**	10/18/13
Project Name:	Site # 10ZZ	**Date Received:**	10/19/13
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: 13101102 **Lab Code:** K1311346-002

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.5	0.1	1.0	10/22/13	10/23/13	0.6		
Barium	6020A	0.05	0.02	1.0	10/22/13	10/23/13	5.77		
Cadmium	6020A	0.020	0.005	1.0	10/22/13	10/23/13	0.223		
Chromium	6020A	0.20	0.02	1.0	10/22/13	10/23/13	0.75		
Lead	6020A	0.020	0.005	1.0	10/22/13	10/23/13	2.660		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.02	U	
Selenium	6020A	1.0	0.2	1.0	10/22/13	10/23/13	0.5	J	Q
Silver	6020A	0.400	0.080	20.0	10/22/13	10/24/13	0.378	J	Q

Comments:

MW 10-29-13

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dba ALS Environmental

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	**Service Request:**	K1311346
Project No.:	NA	**Date Collected:**	10/18/13
Project Name:	Site # 10ZZ	**Date Received:**	10/19/13
Matrix:	WATER	**Units:**	ug/L
		Basis:	NA

Sample Name: 13101103 **Lab Code:** K1311346-003

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	~~0.5~~	0.1	1.0	10/22/13	10/23/13	1.7		
Barium	6020A	0.05	0.02	1.0	10/22/13	10/23/13	6.09		
Cadmium	6020A	0.020	0.005	1.0	10/22/13	10/23/13	0.883		
Chromium	6020A	0.20	0.02	1.0	10/22/13	10/23/13	32.2		
Lead	6020A	0.020	0.005	1.0	10/22/13	10/23/13	12.6		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.04	J	Q
Selenium	6020A	1.0	0.2	1.0	10/22/13	10/23/13	4.5		
Silver	6020A	0.400	0.080	20.0	10/22/13	10/24/13	0.164	J	Q

Comments:

MW 10-29-13

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1311346
Project No.:	NA	Date Collected:	10/18/13
Project Name:	Site # 10ZZ	Date Received:	10/19/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101104 Lab Code: K1311346-009

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.5	0.1	1.0	10/22/13	10/23/13	0.5		
Barium	6020A	0.05	0.02	1.0	10/22/13	10/23/13	140		
Cadmium	6020A	0.020	0.005	1.0	10/22/13	10/23/13	0.081	U	
Chromium	6020A	0.20	0.02	1.0	10/22/13	10/23/13	1.11		
Lead	6020A	0.020	0.005	1.0	10/22/13	10/23/13	4.740		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.10	J	Q
Selenium	6020A	1.0	0.2	1.0	10/22/13	10/23/13	0.5	J	Q
Silver	6020A	0.400	0.080	20.0	10/22/13	10/24/13	0.146	J	Q

Comments:

MW 10-29-13

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1311346
Project No.:	NA	Date Collected:	10/18/13
Project Name:	Site # 10ZZ	Date Received:	10/19/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101105 Lab Code: K1311346-010

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.5	0.1	1.0	10/22/13	10/23/13	11.3		
Barium	6020A	0.05	0.02	1.0	10/22/13	10/23/13	4.23		
Cadmium	6020A	0.020	0.005	1.0	10/22/13	10/23/13	0.306		
Chromium	6020A	0.20	0.02	1.0	10/22/13	10/23/13	2.36		
Lead	6020A	0.020	0.005	1.0	10/22/13	10/23/13	20.2		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.02	U	
Selenium	6020A	1.0	0.2	1.0	10/22/13	10/23/13	0.5	J	Q
Silver	6020A	0.400	0.080	20.0	10/22/13	10/24/13	0.080	U	

Comments:

MW 10-29-13

ALS Group USA, Corp.
dba ALS Environmental

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- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	**Service Request:**	K1311346
Project No.:	NA	**Date Collected:**	10/18/13
Project Name:	Site # 10ZZ	**Date Received:**	10/19/13
Matrix:	SOLID	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: 13101106 **Lab Code:** K1311346-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6010C	2.0	0.4	1.0	10/22/13	10/23/13	1.2	J	Q
Barium	6010C	0.39	0.15	1.0	10/22/13	10/23/13	0.15	U	
Cadmium	6010C	0.10	0.02	1.0	10/22/13	10/23/13	0.02	U	
Chromium	6010C	0.4	0.0	1.0	10/22/13	10/23/13	23.4	JK	
Lead	6010C	1.0	0.2	1.0	10/22/13	10/23/13	0.2	U	
Mercury	7471B	0.021	0.002	1.0	10/22/13	10/23/13	0.002	U	
Selenium	6010C	2.0	0.4	1.0	10/22/13	10/23/13	1.4	J	Q
Silver	6010C	8.9	0.1	1.0	10/22/13	10/23/13	0.1	UJ	K

% Solids: 93.5

Comments:

10-29-13

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1311346
Project No.:	NA	Date Collected:	10/18/13
Project Name:	Site # 10ZZ	Date Received:	10/19/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101107 Lab Code: K1311346-007

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.5	0.1	1.0	10/22/13	10/23/13	0.6		
Barium	6020A	0.05	0.02	1.0	10/22/13	10/23/13	8.97		
Cadmium	6020A	0.020	0.005	1.0	10/22/13	10/23/13	0.233		
Chromium	6020A	0.20	0.02	1.0	10/22/13	10/23/13	0.85		
Lead	6020A	0.020	0.005	1.0	10/22/13	10/23/13	2.860		
Mercury	7470A	0.20	0.02	1.0	10/23/13	10/24/13	0.02	U	
Selenium	6020A	1.0	0.2	1.0	10/22/13	10/23/13	0.6	J	Q
Silver	6020A	0.400	0.080	20.0	10/22/13	10/24/13	0.314	J	Q

Comments:

10-29-13

ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: January 21, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 3 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. Flash Point (EPA Method 1020B) and pH (EPA Method 9040C) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B and/or 4 Data Validation Electronic and/or Manual Process (S2B/4VEM) for these sample results.

The samples were numbered: 13101110 13101111 13101112

Data Qualifications:

The samples were maintained at < 6°C. The samples were collected on December 17, 2013, and were analyzed on December 31, 2013, for flash point and on December 17, 2013, for pH. All samples were analyzed within QC holding time limits of less than 14 days between collection and flash point analysis.

All flash point laboratory control standard results were within QC limits. There were no detections in the flash point or pH method blanks. The flash point duplicate results were within QC limits.

In the reviewers' professional judgment, all sample results were acceptable except as noted.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

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Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	BOA-2014/10ZZ	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Flash Point

Prep Method:	NONE	Units:	deg C
Analysis Method:	1020B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101110	K1313628-001	-	1	NA	12/31/2013	<20	
13101111	K1313628-002	-	1	NA	12/31/2013	<20	
13101112	K1313628-003	-	1	NA	12/31/2013	>110	
~~Method Blank~~	~~K1313628-MB~~	~~-~~	~~1~~	~~NA~~	~~12/31/2013~~	~~>110~~	MW

MW
1-21-14

REVISED
11:11 am, Jan 15, 2014

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	BOA-2014/10ZZ	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

pH

Prep Method:	NONE	Units:	pH Units
Analysis Method:	9040C	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101110	K1313628-001	-	1	NA	12/17/2013	9.70	
13101111	K1313628-002	-	1	NA	12/17/2013	10.0	
13101112	K1313628-003	-	1	NA	12/17/2013	8.85	

JMW
1-21-14

REVISED
11:11 am, Jan 15, 2014

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Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: January 21, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 3 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. Total Cyanide (EPA Method 9012B) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B and/or 4 Data Validation Electronic and/or Manual Process (S2B/4VEM) for these sample results.

The samples were numbered: 13101110 13101111 13101112

Data Qualifications:

The samples were maintained at < 6°C. The samples were collected on December 17, 2013, and were analyzed on December 23, 2013, for cyanide. All samples were analyzed within QC holding time limits of less than 14 days between collection and analysis.

All initial and continuing calibration results were within the QC limits. There were no detections in the method or continuing calibration blanks. The duplicate result was within QC limits. The matrix spike, matrix spike duplicate, and blank spike recoveries were all within QC limits.

In the reviewers' professional judgment, all sample results were acceptable except as noted.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	BOA-2014/10ZZ	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Cyanide, Total

Prep Method: 9010C
Analysis Method: 9012B
Test Notes:

Units: mg/L
Basis: NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101110	K1313628-001	0.010 U	1	12/23/2013	12/23/2013	ND	
13101111	K1313628-002	0.010 U	1	12/23/2013	12/23/2013	ND	
13101112	K1313628-003	0.010 U	1	12/23/2013	12/23/2013	ND MW	
~~Method Blank~~	~~K1313628-MB~~	~~0.010~~	1	12/23/2013	~~12/23/2013~~	~~ND~~	MW

MW
1-21-14

REVISED
11:11 am, Jan 15, 2014

ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: January 14, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 4 liquid samples collected from the Ferry Street Property ATL site in Albany, Oregon, has been completed. Methanol analysis (EPA Method 8015C) was performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B and/or 4 Data Validation Electronic and/or Manual Process (S2B/4VE/M).

The samples were numbered: 13101110 13101111 13101112 13101113

Data Qualifications:

1. **Sample Holding Times: Acceptable.**

The samples were maintained and received within the QC limits of < 6°C. The samples were collected on December 17, 2013, and were analyzed by January 3, 2014, therefore meeting QC criteria of less than 14 days between collection and analysis for preserved water samples.

2. **Initial Calibration: Acceptable.**

All average Relative Response Factors (RRFs) were within the QC limits. All Relative Standard Deviations (RSDs) were within the QC limits.

3. **Continuing Calibration: Acceptable.**

All RRFs were within the QC limits. All % differences were within the QC limits.

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

5. **Matrix Spike (MS) Analysis: Acceptable.**

MS analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

6. **Duplicate Analysis: Acceptable.**

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Laboratory duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. Internal Standards: Acceptable.

All internal standards were within ± 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

8. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

9. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

10. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Methanol

Sample Name:	13101110	**Units:**	ug/mL
Lab Code:	K1313628-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	**800000**	D	1000	2000	01/02/14	01/03/14	KWG1314104	

MW 1-4-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Methanol

Sample Name:	13101111	**Units:**	ug/mL
Lab Code:	K1313628-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	670000	D	500	1000	01/02/14	01/02/14	KWG1314104	

MW 1/4/14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Methanol

Sample Name:	13101112	**Units:**	ug/mL
Lab Code:	K1313628-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	**310**		0.50	1	01/02/14	01/02/14	KWG1314104	

MW
1-4-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Methanol

Sample Name:	13101113	**Units:**	ug/mL
Lab Code:	K1313628-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	~~ND~~	~~U~~ MW	0.50	1	01/02/14	01/02/14	KWG1314104	

MW 1-4-14

Comments:

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720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: January 14, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 3 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. RCRA Metals (EPA Methods 6020A and 7470A) analyses were performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B and/or 4 Data Validation Electronic and/or Manual Process (S2B/4VEM).

The samples were numbered: 13101110 13101111 13101112

Data Qualifications:

1. Sample Holding Times: Acceptable.

All liquid samples were preserved to a pH < 2. The samples were maintained at < 6°C. The samples were collected on December 17, 2013, and were analyzed by January 2, 2014, therefore meeting QC criteria of less than 6 months between collection, extraction, and analysis (28 days for mercury).

2. Initial and Continuing Calibration: Acceptable.

A minimum of one calibration standard and a blank were analyzed at the beginning of the ICP analysis sequence and after every 10 samples. No results were greater than 110% of the highest calibration standard. All ICP recoveries were within the QC limits. All AA recoveries were within QC limits.

3. Blanks: Acceptable.

A preparation blank was analyzed for each 20 samples or per matrix per concentration level. Blanks were analyzed after each Initial or Continuing Calibration Verification. There were no detections in any blanks that affected sample results.

4. ICP Interference Check Sample: Acceptable.

An Interference Check Sample (ICS) was analyzed at the beginning of each sequence. All ICS (solution AB) results were within QC limits of 80% - 120% recovery.

recycled paper

5. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

6. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

7. **ICP Serial Dilution: Acceptable.**

A serial dilution analysis was performed per matrix per concentration or per sample delivery group, whichever was more frequent. All serial dilution results were within QC limits.

8. **Matrix Spike Analysis: Satisfactory.**

A matrix spike analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. Spike recoveries were within the QC limits except arsenic and selenium (low recoveries). Sample results associated with the low recovery outliers were qualified as estimated quantities with a low bias (JL or UJL).

9. **Duplicate Analysis: Acceptable.**

A laboratory duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

10. **Laboratory Control Sample Analysis: Acceptable.**

A Laboratory Control Sample (LCS) was analyzed per SDG per matrix. All LCS results were within the established control limits.

11. **Overall Assessment of Data for Use**

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical methods, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

<u>Data Qualifiers and Definitions</u>

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
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Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1313628
Project No.:	EE-004534-0035-01TTO	Date Collected:	12/17/13
Project Name:	START-IV Laboratory BOA	Date Received:	12/17/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101110 Lab Code: K1313628-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	10.0	20.0	12/23/13	01/02/14	10.0	U	JL ~~X~~ MW
Barium	6020A	1.00	20.0	12/23/13	01/02/14	1.31		
Cadmium	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	
Chromium	6020A	60.0	20.0	12/23/13	01/02/14	60.0	U	
Lead	6020A	0.40	20.0	12/23/13	01/02/14	0.55		
Mercury	7470A	2.00	1.0	12/27/13	12/27/13	2.00	U	
Selenium	6020A	20.0	20.0	12/23/13	01/02/14	20.0	U	JL ~~X~~ MW
Silver	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	

Comments:

MW
1-14-14

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Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1313628
Project No.:	EE-004534-0035-01TTO	Date Collected:	12/17/13
Project Name:	START-IV Laboratory BOA	Date Received:	12/17/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101111 Lab Code: K1313628-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	40.0	20.0	12/23/13	01/02/14	40.0	U	JL
Barium	6020A	1.00	20.0	12/23/13	01/02/14	1.00	U	
Cadmium	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	
Chromium	6020A	60.0	20.0	12/23/13	01/02/14	60.0	U	
Lead	6020A	0.40	20.0	12/23/13	01/02/14	0.43		
Mercury	7470A	2.00	1.0	12/27/13	12/27/13	2.00	U	
Selenium	6020A	20.0	20.0	12/23/13	01/02/14	20.0	U	JL
Silver	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	

Comments:

MW
1-4-14

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Metals

- I -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Ecology And Environment, Incorpo	Service Request:	K1313628
Project No.:	EE-004534-0035-01TTO	Date Collected:	12/17/13
Project Name:	START-IV Laboratory BOA	Date Received:	12/17/13
Matrix:	WATER	Units:	ug/L
		Basis:	NA

Sample Name: 13101112 Lab Code: K1313628-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	10.0	20.0	12/23/13	01/02/14	35.8	JL	~~N~~ MW
Barium	6020A	1.00	20.0	12/23/13	01/02/14	3.35		
Cadmium	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	
Chromium	6020A	4.0	20.0	12/23/13	01/02/14	9.2		
Lead	6020A	0.40	20.0	12/23/13	01/02/14	0.52		
Mercury	7470A	0.8	1.0	12/27/13	12/27/13	0.8	U	
Selenium	6020A	20.0	20.0	12/23/13	01/02/14	20.0	UJL	~~N~~ MW
Silver	6020A	0.40	20.0	12/23/13	01/02/14	0.40	U	

Comments:

MW
1414

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MEMORANDUM

DATE: January 14, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 4 liquid samples collected from the Ferry Street Property ATL site in Albany, Oregon, has been completed. Volatile Organic Compound (VOC) analysis (EPA Method 8260C) was performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B and/or 4 Data Validation Electronic and/or Manual Process (S2B/4VE/M).

The samples were numbered: 13101110 13101111 13101112 13101113

Data Qualifications:

1. Sample Holding Times: Acceptable.

The samples were maintained and received within the QC limits of < 6°C. The samples were collected on December 17, 2013, and were analyzed by December 26, 2013, therefore meeting QC criteria of less than 14 days between collection and analysis for preserved water samples.

2. Tuning: Acceptable.

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. Initial Calibration: Acceptable.

All average Relative Response Factors (RRFs) were within the QC limits. All Relative Standard Deviations (RSDs) were within the QC limits.

4. Continuing Calibration: Satisfactory.

All RRFs were within the QC limits. All % differences were within the QC limits except carbon disulfide, 1,2-dibromo-3-chloropropane, and hexachlorobutadiene with low recoveries and 1,2-dichloroethane with a high recovery in the December 20, 2013 calibration, 1,2-dichloroethane with a high recovery in the December 23, 2013 calibration, and bromomethane with a low recovery in the December 26, 2013 calibration. Positive results associated with the high outliers were qualified as estimated

quantities with a high bias (JH). Positive results and sample quantitation limits associated with the low recovery outliers were qualified as estimated quantities with a low bias (JL or UJL).

5. Blanks: Acceptable.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

6. System Monitoring Compounds (SMCs): Acceptable.

All SMC recoveries were within QC limits.

7. Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Analysis: Acceptable.

MS and MSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

8. Duplicate Analysis: Acceptable.

Laboratory duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards: Acceptable.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

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R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101110	**Units:**	ug/L
Lab Code:	K1313628-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Vinyl Chloride	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromomethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Trichlorofluoromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Acetone	**8900**	D	1000	50	12/23/13	12/23/13	KWG1314048	
Carbon Disulfide	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Methylene Chloride	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Acrylonitrile	ND	U	250	50	12/23/13	12/23/13	KWG1314048	
trans-1,2-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2,2-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
cis-1,2-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2-Butanone (MEK)	**4100**	D	1000	50	12/23/13	12/23/13	KWG1314048	
Bromochloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloroform	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1,1-Trichloroethane (TCA)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Carbon Tetrachloride	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Benzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichloroethane (EDC)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Trichloroethene (TCE)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Dibromomethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromodichloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
cis-1,3-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
4-Methyl-2-pentanone (MIBK)	ND	U	1000	50	12/23/13	12/23/13	KWG1314048	
Toluene	**120**	D	25	50	12/23/13	12/23/13	KWG1314048	
trans-1,3-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1,2-Trichloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Tetrachloroethene (PCE)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101110	**Units:**	ug/L
Lab Code:	K1313628-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	1000	50	12/23/13	12/23/13	KWG1314048	
1,3-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Dibromochloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dibromoethane (EDB)	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Chlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Ethylbenzene	**69**	D	25	50	12/23/13	12/23/13	KWG1314048	
1,1,1,2-Tetrachloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
m,p-Xylenes	**360**	D	25	50	12/23/13	12/23/13	KWG1314048	
o-Xylene	**200**	D	25	50	12/23/13	12/23/13	KWG1314048	
Styrene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromoform	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Isopropylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,1,2,2-Tetrachloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
n-Propylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,3-Trichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2-Chlorotoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,3,5-Trimethylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
4-Chlorotoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
tert-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,4-Trimethylbenzene	**110**	D	100	50	12/23/13	12/23/13	KWG1314048	
sec-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
4-Isopropyltoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,3-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,4-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
n-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dibromo-3-chloropropane	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,4-Trichlorobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Hexachlorobutadiene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Naphthalene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,3-Trichlorobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101110	**Units:**	ug/L
Lab Code:	K1313628-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	84	73-122	12/23/13	Acceptable
Toluene-d8	106	65-144	12/23/13	Acceptable
4-Bromofluorobenzene	100	68-117	12/23/13	Acceptable

Comments: JMW 1/4/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101111	**Units:**	ug/L
Lab Code:	K1313628-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Vinyl Chloride	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromomethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Trichlorofluoromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Acetone	**8200**	D	1000	50	12/23/13	12/23/13	KWG1314048	
Carbon Disulfide	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Methylene Chloride	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Acrylonitrile	ND	U	250	50	12/23/13	12/23/13	KWG1314048	
trans-1,2-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2,2-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
cis-1,2-Dichloroethene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2-Butanone (MEK)	**3400**	D	1000	50	12/23/13	12/23/13	KWG1314048	
Bromochloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Chloroform	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1,1-Trichloroethane (TCA)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Carbon Tetrachloride	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Benzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichloroethane (EDC)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Trichloroethene (TCE)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Dibromomethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromodichloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
cis-1,3-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
4-Methyl-2-pentanone (MIBK)	ND	U	1000	50	12/23/13	12/23/13	KWG1314048	
Toluene	**95**	D	25	50	12/23/13	12/23/13	KWG1314048	
trans-1,3-Dichloropropene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,1,2-Trichloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Tetrachloroethene (PCE)	ND	U	25	50	12/23/13	12/23/13	KWG1314048	

Comments: MW 1-14-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101111	**Units:**	ug/L
Lab Code:	K1313628-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	1000	50	12/23/13	12/23/13	KWG1314048	
1,3-Dichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Dibromochloromethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dibromoethane (EDB)	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Chlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Ethylbenzene	56		25	50	12/23/13	12/23/13	KWG1314048	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	25	50	12/23/13	12/23/13	KWG1314048	
m,p-Xylenes	280	D	25	50	12/23/13	12/23/13	KWG1314048	
o-Xylene	160		25	50	12/23/13	12/23/13	KWG1314048	
Styrene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromoform	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Isopropylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,1,2,2-Tetrachloroethane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
Bromobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
n-Propylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,3-Trichloropropane	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
2-Chlorotoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,3,5-Trimethylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
4-Chlorotoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
tert-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,4-Trimethylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
sec-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
4-Isopropyltoluene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,3-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,4-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
n-Butylbenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2-Dichlorobenzene	ND	U	25	50	12/23/13	12/23/13	KWG1314048	
1,2-Dibromo-3-chloropropane	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,4-Trichlorobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Hexachlorobutadiene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
Naphthalene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	
1,2,3-Trichlorobenzene	ND	U	100	50	12/23/13	12/23/13	KWG1314048	

Comments: 1-4-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101111	**Units:**	ug/L
Lab Code:	K1313628-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	82	73-122	12/23/13	Acceptable
Toluene-d8	105	65-144	12/23/13	Acceptable
4-Bromofluorobenzene	97	68-117	12/23/13	Acceptable

Comments: MW 1-4-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101112	**Units:**	ug/L
Lab Code:	K1313628-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Chloromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Vinyl Chloride	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Bromomethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Chloroethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Trichlorofluoromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1-Dichloroethene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Acetone	110		20	1	12/26/13	12/26/13	KWG1314045	
Carbon Disulfide	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Methylene Chloride	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
Acrylonitrile	ND	U	5.0	1	12/26/13	12/26/13	KWG1314045	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1-Dichloroethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
2,2-Dichloropropane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
2-Butanone (MEK)	35		20	1	12/26/13	12/26/13	KWG1314045	
Bromochloromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Chloroform	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Carbon Tetrachloride	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1-Dichloropropene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Benzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Trichloroethene (TCE)	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,2-Dichloropropane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Dibromomethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Bromodichloromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/26/13	12/26/13	KWG1314045	
Toluene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1,2-Trichloroethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101112	**Units:**	ug/L
Lab Code:	K1313628-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	12/26/13	12/26/13	KWG1314045	
1,3-Dichloropropane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Dibromochloromethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
Chlorobenzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Ethylbenzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
m,p-Xylenes	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
o-Xylene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Styrene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Bromoform	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Isopropylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
Bromobenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
n-Propylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,2,3-Trichloropropane	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
2-Chlorotoluene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,3,5-Trimethylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
4-Chlorotoluene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
tert-Butylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,2,4-Trimethylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
sec-Butylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
4-Isopropyltoluene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,3-Dichlorobenzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,4-Dichlorobenzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
n-Butylbenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,2-Dichlorobenzene	ND	U	0.50	1	12/26/13	12/26/13	KWG1314045	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,2,4-Trichlorobenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
Hexachlorobutadiene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
Naphthalene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	
1,2,3-Trichlorobenzene	ND	U	2.0	1	12/26/13	12/26/13	KWG1314045	

* See Case Narrative

Comments: JMW 1/4/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101112	**Units:**	ug/L
Lab Code:	K1313628-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	12/26/13	Acceptable
Toluene-d8	101	65-144	12/26/13	Acceptable
4-Bromofluorobenzene	99	68-117	12/26/13	Acceptable

Comments: MW 1/7/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101113	**Units:**	ug/L
Lab Code:	K1313628-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Chloromethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Vinyl Chloride	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Bromomethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Chloroethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Trichlorofluoromethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,1-Dichloroethene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Acetone	22		20	1	12/20/13	12/20/13	KWG1314025	
Carbon Disulfide	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Methylene Chloride	ND	U	2.0	1	12/20/13	12/20/13	KWG1314025	
Acrylonitrile	ND	U	5.0	1	12/20/13	12/20/13	KWG1314025	
trans-1,2-Dichloroethene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,1-Dichloroethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
2,2-Dichloropropane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
cis-1,2-Dichloroethene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
2-Butanone (MEK)	ND	U	20	1	12/20/13	12/20/13	KWG1314025	
Bromochloromethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Chloroform	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Carbon Tetrachloride	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,1-Dichloropropene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Benzene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Trichloroethene (TCE)	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,2-Dichloropropane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Dibromomethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Bromodichloromethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
cis-1,3-Dichloropropene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	12/20/13	12/20/13	KWG1314025	
Toluene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
trans-1,3-Dichloropropene	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
1,1,2-Trichloroethane	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	
Tetrachloroethene (PCE)	ND	U	0.50	1	12/20/13	12/20/13	KWG1314025	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101113	**Units:**	ug/L
Lab Code:	K1313628-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL		Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	U	1	12/20/13	12/20/13	KWG1314025	
1,3-Dichloropropane	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Dibromochloromethane	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
1,2-Dibromoethane (EDB)	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
Chlorobenzene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Ethylbenzene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
1,1,1,2-Tetrachloroethane	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
m,p-Xylenes	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
o-Xylene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Styrene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Bromoform	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Isopropylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,1,2,2-Tetrachloroethane	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
Bromobenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
n-Propylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,2,3-Trichloropropane	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
2-Chlorotoluene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,3,5-Trimethylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
4-Chlorotoluene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
tert-Butylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,2,4-Trimethylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
sec-Butylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
4-Isopropyltoluene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,3-Dichlorobenzene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
1,4-Dichlorobenzene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
n-Butylbenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
1,2-Dichlorobenzene	ND	U	0.50		1	12/20/13	12/20/13	KWG1314025	
1,2-Dibromo-3-chloropropane	ND	U	2.0	JL	1	12/20/13	12/20/13	KWG1314025	*
1,2,4-Trichlorobenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	
Hexachlorobutadiene	ND	U	2.0	JL	1	12/20/13	12/20/13	KWG1314025	*
Naphthalene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	MM
1,2,3-Trichlorobenzene	ND	U	2.0		1	12/20/13	12/20/13	KWG1314025	

MM

* See Case Narrative

Comments: MW 1-14-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1313628
Project:	START-IV Laboratory BOA/EE-004534-0035-01TTO	**Date Collected:**	12/17/2013
Sample Matrix:	Water	**Date Received:**	12/17/2013

Volatile Organic Compounds

Sample Name:	13101113	**Units:**	ug/L
Lab Code:	K1313628-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	83	73-122	12/20/13	Acceptable
Toluene-d8	102	65-144	12/20/13	Acceptable
4-Bromofluorobenzene	84	68-117	12/20/13	Acceptable

MW 1-14-14

Comments:

ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: March 27, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of four liquid/liquid waste and six solid waste samples collected from the Ferry Street Property ATL site in Albany, Oregon, has been completed. Volatile Organic Compound (VOC) analysis (EPA Method 8260) was performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BVM).

The samples were numbered:

13101114	13101115	13101116	13101117	13101118
13101119	13101120	13101121	13101122	13101123

Data Qualifications:

1. Sample Holding Times: Satisfactory.

The samples were maintained within the QC limits of < 6°C but were measured at 11°C upon receipt at the laboratory; for this reason, sample results are qualified as estimated quantities with a low bias (JL or UJL). The samples were collected on March 12, 2014, were received at the laboratory within 48 hours of collection for processing, and were analyzed by March 21, 2014, therefore meeting QC criteria of less than 14 days between collection and analysis for soil and water/liquid samples.

2. Tuning: Acceptable.

Tuning was performed at the beginning of each 12-hour analysis sequence. All results were within QC limits.

3. Initial Calibration: Acceptable.

All average Relative Response Factors (RRFs) were within the QC limits. All Relative Standard Deviations (RSDs) were within the QC limits. The second source ICV results were within QC limits.

4. Continuing Calibration: Satisfactory.

All RRFs were within the QC limits. All % differences were within the QC limits except 4-methyl-2-pentanone, 2-hexanone, and 1,2-dibromo-3-chloropropane with decreasing response factors and tetrachloroethene and hexachlorobutadiene with increasing response factors in the March 21, 2014 soil

calibration, bromomethane with a decreasing response factor in the March 25, 2014 calibration, 1,2-dibromo-3-chloropropane with a decreasing response factor in the March 20, 2014 calibration, and methyl isobutyl ketone (MIBK), 2-hexanone, 1,2-dibromo-3-chloropropane, and hexachlorobutadiene with decreasing response factors and tetrachloroethene with an increasing response factor in the March 21, 2014 liquid calibration. Positive results and sample quantitation limits associated with the low response factor outliers were qualified as estimated quantities with a low bias (JL or UJL) and positive results associated with the high response factor outliers were qualified as estimated quantities with a high bias (JH).

5. Blanks: Satisfactory.

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank except methylene chloride (0.16 ug/L) and 1,2,4-trichlorobenzene (0.10 ug/L) in the March 20, 2014 water blank, methylene chloride (0.29 ug/L), naphthalene (0.10 ug/L), and 1,2,3-trichlorobenzene (0.13 ug/L) in the March 21, 2014 water blank, and acetone (6.4 ug/kg), methylene chloride (1.5 ug/kg), 2-hexanone (2 ug/kg), 1,2,4-trimethylbenzene (0.06 ug/kg), 4-isopropyltoluene (0.08 ug/kg), 1,3-dichlorobenzene (0.11 ug/kg), 1,4-dichlorobenzene (0.14 ug/kg), n-butylbenzene (0.10 ug/kg), 1,2-dichlorobenzene (0.12 ug/kg), 1,2,4-trichlorobenzene (0.29 ug/kg), naphthalene (0.32 ug/kg), and 1,2,3-trichlorobenzene (0.26 ug/kg) in the March 19, 2014 soil blank, methylene chloride (0.029 mg/kg), naphthalene (0.01 mg/kg), and 1,2,3-trichlorobenzene (0.013 mg/kg) in the March 21, 2014 soil blank, and methylene chloride (0.17 mg/kg) and 1,2,3-trichlorobenzene (0.011 mg/kg) in the March 25, 2014 soil blank. Associated sample results less than the method reporting limit or less than five times the blank concentration were qualified as not detected (U). There were no detections in the trip blank except chloromethane (0.09 ug/L), bromomethane (0.36 ug/L), 2-butanone (2.1 ug/L), and acetone (5.4 ug/L); no actions were taken based on these results as any positive sample results were significantly higher than the trip blank results.

6. System Monitoring Compounds (SMCs): Satisfactory.

All SMC recoveries were within QC limits except low toluene-d8 recoveries in samples 13101121 and 13101122; associated sample results were qualified as estimated quantities with a low bias (JL or UJL).

7. Matrix Spike (MS)/MS Duplicate (MSD)/Blank Spike (BS)/BS Duplicate (BSD) Analysis: Satisfactory.

MS, MSD, BS, and BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits except the high recoveries of chlorobenzene and 1,2-dichlorobenzene in the water batch MS and/or MSD (no actions were taken as these outliers were not detected in the associated samples) and the high recoveries of dibromofluoromethane and chlorobenzene in the BS and/or BSD associated with samples 13101119 through 13101122 (no actions were taken as these outliers were not detected in any samples).

8. Duplicate Analysis: Acceptable.

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

9. Internal Standards: Satisfactory.

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts except low chlorobenzene-d5 and 1,4-dichlorobenzene results in sample 13101121 and all three internal standard results in sample 13101122; associated positive results were qualified as estimated quantities with a high bias (JH) and sample quantitation limits were qualified as estimated quantities with a low bias (UJL).

10. Precision and Bias Determination: Not Performed.

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

11. Performance Evaluation Sample Analysis: Not Provided.

Performance evaluation samples were not provided to the laboratory.

12. Overall Assessment of Data for Use

The reviewer used professional judgment to apply a single bias qualifier when more than one bias qualifier was applicable to an individual estimated sample result.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101114	**Units:**	mg/Kg
Lab Code:	K1402510-001	**Basis:**	Dry
Extraction Method:	EPA 5030A/5030B	**Level:**	Med
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.084	0.022	1	03/21/14	03/21/14	KWG1402368	
Chloromethane	ND	U	0.084	0.012	1	03/21/14	03/21/14	KWG1402368	
Vinyl Chloride	ND	U	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
Bromomethane	0.027	J	0.084	0.017	1	03/21/14	03/21/14	KWG1402368	
Chloroethane	ND	U	0.084	0.027	1	03/21/14	03/21/14	KWG1402368	
Trichlorofluoromethane	ND	U	0.084	0.021	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloroethene	ND	U	0.084	0.014	1	03/21/14	03/21/14	KWG1402368	
Acetone	0.63	J	3.4	0.56	1	03/21/14	03/21/14	KWG1402368	
Carbon Disulfide	ND	U	0.084	0.012	1	03/21/14	03/21/14	KWG1402368	
Methylene Chloride	0.057	J	0.34	0.017	1	03/21/14	03/21/14	KWG1402368	
Acrylonitrile	130		17	0.24	1	03/25/14	03/25/14	KWG1402483	
trans-1,2-Dichloroethene	ND	U	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloroethane	ND	U	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
2,2-Dichloropropane	ND	U	0.084	0.011	1	03/21/14	03/21/14	KWG1402368	
cis-1,2-Dichloroethene	ND	U	0.084	0.012	1	03/21/14	03/21/14	KWG1402368	
2-Butanone (MEK)	0.40	J	3.4	0.32	1	03/21/14	03/21/14	KWG1402368	
Bromochloromethane	ND	U	0.084	0.027	1	03/21/14	03/21/14	KWG1402368	
Chloroform	ND	U	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
1,1,1-Trichloroethane (TCA)	ND	U	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
Carbon Tetrachloride	ND	U	0.084	0.017	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloropropene	ND	U	0.084	0.015	1	03/21/14	03/21/14	KWG1402368	
Benzene	0.13		0.084	0.011	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichloroethane (EDC)	ND	U	0.084	0.014	1	03/21/14	03/21/14	KWG1402368	
Trichloroethene (TCE)	0.11		0.084	0.017	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichloropropane	ND	U	0.084	0.016	1	03/21/14	03/21/14	KWG1402368	
Dibromomethane	ND	U	0.084	0.026	1	03/21/14	03/21/14	KWG1402368	
Bromodichloromethane	ND	U	0.084	0.016	1	03/21/14	03/21/14	KWG1402368	
cis-1,3-Dichloropropene	ND	U	0.084	0.031	1	03/21/14	03/21/14	KWG1402368	
4-Methyl-2-pentanone (MIBK)	ND	U	3.4	0.44	1	03/21/14	03/21/14	KWG1402368	
Toluene	0.64		0.084	0.0091	1	03/21/14	03/21/14	KWG1402368	
trans-1,3-Dichloropropene	ND	U	0.084	0.012	1	03/21/14	03/21/14	KWG1402368	
1,1,2-Trichloroethane	ND	U	0.084	0.024	1	03/21/14	03/21/14	KWG1402368	
Tetrachloroethene (PCE)	0.049	J	0.084	0.017	1	03/21/14	03/21/14	KWG1402368	

Comments:

MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101114	**Units:**	mg/Kg
Lab Code:	K1402510-001	**Basis:**	Dry
Extraction Method:	EPA 5030A/5030B	**Level:**	Med
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	~~U~~	3.4 UJL	0.46	1	03/21/14	03/21/14	KWG1402368	*
1,3-Dichloropropane	~~ND~~	~~U~~	0.084	0.024	1	03/21/14	03/21/14	KWG1402368	
Dibromochloromethane	~~ND~~	~~U~~	0.084	0.024	1	03/21/14	03/21/14	KWG1402368	
1,2-Dibromoethane (EDB)	~~ND~~	~~U~~	0.34	0.017	1	03/21/14	03/21/14	KWG1402368	
Chlorobenzene	~~ND~~	~~U~~	0.084	0.019	1	03/21/14	03/21/14	KWG1402368	
Ethylbenzene	0.70	JL	0.084	0.0084	1	03/21/14	03/21/14	KWG1402368	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	0.084 UJL	0.019	1	03/21/14	03/21/14	KWG1402368	
m,p-Xylenes	2.4	JL	0.084	0.019	1	03/21/14	03/21/14	KWG1402368	
o-Xylene	0.47	JL	0.084	0.013	1	03/21/14	03/21/14	KWG1402368	
Styrene	~~ND~~	~~U~~	0.084 UJL	0.015	1	03/21/14	03/21/14	KWG1402368	
Bromoform	~~ND~~	~~U~~	0.084 UJL	0.027	1	03/21/14	03/21/14	KWG1402368	
Isopropylbenzene	0.15	J Q	0.34	0.0086	1	03/21/14	03/21/14	KWG1402368	
1,1,2,2-Tetrachloroethane	~~ND~~	~~U~~	0.084 UJL	0.027	1	03/21/14	03/21/14	KWG1402368	
Bromobenzene	~~ND~~	~~U~~	0.34 UJL	0.021	1	03/21/14	03/21/14	KWG1402368	
n-Propylbenzene	0.15	J Q	0.34	0.0091	1	03/21/14	03/21/14	KWG1402368	
1,2,3-Trichloropropane	~~ND~~	~~U~~	0.084 UJL	0.034	1	03/21/14	03/21/14	KWG1402368	
2-Chlorotoluene	~~ND~~	~~U~~	0.34 UJL	0.017	1	03/21/14	03/21/14	KWG1402368	
1,3,5-Trimethylbenzene	0.16	J Q	0.34	0.015	1	03/21/14	03/21/14	KWG1402368	
4-Chlorotoluene	~~ND~~	~~U~~	0.34 UJL	0.022	1	03/21/14	03/21/14	KWG1402368	
tert-Butylbenzene	~~ND~~	~~U~~	0.34 UJL	0.0099	1	03/21/14	03/21/14	KWG1402368	
1,2,4-Trimethylbenzene	0.15	J Q	0.34	0.012	1	03/21/14	03/21/14	KWG1402368	
sec-Butylbenzene	0.034	J	0.34	0.011	1	03/21/14	03/21/14	KWG1402368	
4-Isopropyltoluene	0.13	J	0.34	0.011	1	03/21/14	03/21/14	KWG1402368	
1,3-Dichlorobenzene	~~ND~~	~~U~~	0.084 UJL	0.017	1	03/21/14	03/21/14	KWG1402368	
1,4-Dichlorobenzene	~~ND~~	~~U~~	0.084 UJL	0.021	1	03/21/14	03/21/14	KWG1402368	
n-Butylbenzene	0.015	J Q	0.34	0.0091	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichlorobenzene	~~ND~~	~~U~~	0.084 UJL	0.021	1	03/21/14	03/21/14	KWG1402368	
1,2-Dibromo-3-chloropropane	~~ND~~	~~U~~	0.34	0.034	1	03/21/14	03/21/14	KWG1402368	*
1,2,4-Trichlorobenzene	~~ND~~	~~U~~	0.34	0.017	1	03/21/14	03/21/14	KWG1402368	
Hexachlorobutadiene	~~ND~~	~~U~~	0.34	0.019	1	03/21/14	03/21/14	KWG1402368	
Naphthalene	~~0.022~~	~~J Q~~	0.34 UJL	0.015	1	03/21/14	03/21/14	KWG1402368	
1,2,3-Trichlorobenzene	~~ND~~	~~U~~	0.34 UJL	0.019	1	03/21/14	03/21/14	KWG1402368	

* See Case Narrative

Comments: 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101114	**Units:**	mg/Kg
Lab Code:	K1402510-001	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	87	55-132	03/21/14	Acceptable
Toluene-d8	100	81-124	03/21/14	Acceptable
4-Bromofluorobenzene	102	64-132	03/21/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101115	**Units:**	mg/Kg
Lab Code:	K1402510-002	**Basis:**	Dry
Extraction Method:	EPA 5030A/5030B	**Level:**	Med
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	2.1 UJL	0.53	1	03/21/14	03/21/14	KWG1402368	
Chloromethane	ND	U	2.1	0.28	1	03/21/14	03/21/14	KWG1402368	
Vinyl Chloride	ND	U	2.1	0.31	1	03/21/14	03/21/14	KWG1402368	
Bromomethane	ND	U	2.1	0.41	1	03/21/14	03/21/14	KWG1402368	
Chloroethane	ND	U	2.1	0.65	1	03/21/14	03/21/14	KWG1402368	
Trichlorofluoromethane	ND	U	2.1	0.49	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloroethene	ND	U	2.1	0.33	1	03/21/14	03/21/14	KWG1402368	
Acetone	ND	U	81	14	1	03/21/14	03/21/14	KWG1402368	
Carbon Disulfide	ND	U	2.1	0.28	1	03/21/14	03/21/14	KWG1402368	
Methylene Chloride	~~1.3~~	~~J~~ Q	8.1 UJL	0.41	1	03/21/14	03/21/14	KWG1402368	
Acrylonitrile	6300	JL	1700	23	1	03/21/14	03/21/14	KWG1402368	
trans-1,2-Dichloroethene	ND	U	2.1 UJL	0.29	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloroethane	ND	U	2.1	0.31	1	03/21/14	03/21/14	KWG1402368	
2,2-Dichloropropane	ND	U	2.1	0.25	1	03/21/14	03/21/14	KWG1402368	
cis-1,2-Dichloroethene	ND	U	2.1	0.27	1	03/21/14	03/21/14	KWG1402368	
2-Butanone (MEK)	ND	U	81	7.7	1	03/21/14	03/21/14	KWG1402368	
Bromochloromethane	ND	U	2.1	0.65	1	03/21/14	03/21/14	KWG1402368	
Chloroform	ND	U	2.1	0.29	1	03/21/14	03/21/14	KWG1402368	
1,1,1-Trichloroethane (TCA)	ND	U	2.1	0.31	1	03/21/14	03/21/14	KWG1402368	
Carbon Tetrachloride	ND	U	2.1	0.39	1	03/21/14	03/21/14	KWG1402368	
1,1-Dichloropropene	ND	U	2.1	0.36	1	03/21/14	03/21/14	KWG1402368	
Benzene	0.28	J Q	2.1	0.25	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichloroethane (EDC)	ND	U	2.1 UJL	0.33	1	03/21/14	03/21/14	KWG1402368	
Trichloroethene (TCE)	ND	U	2.1	0.41	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichloropropane	ND	U	2.1	0.39	1	03/21/14	03/21/14	KWG1402368	
Dibromomethane	ND	U	2.1	0.61	1	03/21/14	03/21/14	KWG1402368	
Bromodichloromethane	ND	U	2.1	0.37	1	03/21/14	03/21/14	KWG1402368	
cis-1,3-Dichloropropene	ND	U	2.1	0.73	1	03/21/14	03/21/14	KWG1402368	
4-Methyl-2-pentanone (MIBK)	ND	U	81	11	1	03/21/14	03/21/14	KWG1402368	
Toluene	0.32	J Q	2.1	0.22	1	03/21/14	03/21/14	KWG1402368	
trans-1,3-Dichloropropene	ND	U	2.1 UJL	0.28	1	03/21/14	03/21/14	KWG1402368	
1,1,2-Trichloroethane	ND	U	2.1	0.57	1	03/21/14	03/21/14	KWG1402368	
Tetrachloroethene (PCE)	ND	U	2.1	0.40	1	03/21/14	03/21/14	KWG1402368	

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101115	**Units:**	mg/Kg
Lab Code:	K1402510-002	**Basis:**	Dry
Extraction Method:	EPA 5030A/5030B	**Level:**	Med
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	81	11	1	03/21/14	03/21/14	KWG1402368	*
1,3-Dichloropropane	ND	U	2.1	0.57	1	03/21/14	03/21/14	KWG1402368	
Dibromochloromethane	ND	U	2.1	0.57	1	03/21/14	03/21/14	KWG1402368	
1,2-Dibromoethane (EDB)	ND	U	8.1	0.41	1	03/21/14	03/21/14	KWG1402368	
Chlorobenzene	ND	U	2.1	0.45	1	03/21/14	03/21/14	KWG1402368	
Ethylbenzene	0.72	J	2.1	0.21	1	03/21/14	03/21/14	KWG1402368	
1,1,1,2-Tetrachloroethane	ND	U	2.1	0.45	1	03/21/14	03/21/14	KWG1402368	
m,p-Xylenes	1.2	J	2.1	0.45	1	03/21/14	03/21/14	KWG1402368	
o-Xylene	ND	U	2.1	0.30	1	03/21/14	03/21/14	KWG1402368	
Styrene	ND	U	2.1	0.36	1	03/21/14	03/21/14	KWG1402368	
Bromoform	ND	U	2.1	0.65	1	03/21/14	03/21/14	KWG1402368	
Isopropylbenzene	ND	U	8.1	0.21	1	03/21/14	03/21/14	KWG1402368	
1,1,2,2-Tetrachloroethane	ND	U	2.1	0.65	1	03/21/14	03/21/14	KWG1402368	
Bromobenzene	ND	U	8.1	0.49	1	03/21/14	03/21/14	KWG1402368	
n-Propylbenzene	ND	U	8.1	0.22	1	03/21/14	03/21/14	KWG1402368	
1,2,3-Trichloropropane	ND	U	2.1	0.81	1	03/21/14	03/21/14	KWG1402368	
2-Chlorotoluene	ND	U	8.1	0.41	1	03/21/14	03/21/14	KWG1402368	
1,3,5-Trimethylbenzene	ND	U	8.1	0.36	1	03/21/14	03/21/14	KWG1402368	
4-Chlorotoluene	ND	U	8.1	0.53	1	03/21/14	03/21/14	KWG1402368	
tert-Butylbenzene	ND	U	8.1	0.24	1	03/21/14	03/21/14	KWG1402368	
1,2,4-Trimethylbenzene	0.32	J	8.1	0.28	1	03/21/14	03/21/14	KWG1402368	
sec-Butylbenzene	ND	U	8.1	0.25	1	03/21/14	03/21/14	KWG1402368	
4-Isopropyltoluene	ND	U	8.1	0.25	1	03/21/14	03/21/14	KWG1402368	
1,3-Dichlorobenzene	ND	U	2.1	0.41	1	03/21/14	03/21/14	KWG1402368	
1,4-Dichlorobenzene	ND	U	2.1	0.49	1	03/21/14	03/21/14	KWG1402368	
n-Butylbenzene	0.24	J	8.1	0.22	1	03/21/14	03/21/14	KWG1402368	
1,2-Dichlorobenzene	ND	U	2.1	0.49	1	03/21/14	03/21/14	KWG1402368	
1,2-Dibromo-3-chloropropane	ND	U	8.1	0.81	1	03/21/14	03/21/14	KWG1402368	*
1,2,4-Trichlorobenzene	ND	U	8.1	0.39	1	03/21/14	03/21/14	KWG1402368	
Hexachlorobutadiene	ND	U	8.1	0.45	1	03/21/14	03/21/14	KWG1402368	
Naphthalene	ND	U	8.1	0.36	1	03/21/14	03/21/14	KWG1402368	
1,2,3-Trichlorobenzene	ND	U	8.1	0.45	1	03/21/14	03/21/14	KWG1402368	

* See Case Narrative

Comments: SMW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101115	**Units:**	mg/Kg
Lab Code:	K1402510-002	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	87	55-132	03/21/14	Acceptable
Toluene-d8	98	81-124	03/21/14	Acceptable
4-Bromofluorobenzene	99	64-132	03/21/14	Acceptable

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101116	**Units:**	ug/L
Lab Code:	K1402510-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	~~ND~~	~~U~~	10	2.6	20	03/21/14	03/21/14	KWG1402366	
Chloromethane	1.8	~~J~~ Q	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Vinyl Chloride	~~ND~~	~~U~~	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Bromomethane	6.0	~~J~~ Q	10	2.0	20	03/21/14	03/21/14	KWG1402366	
Chloroethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Trichlorofluoromethane	ND	U	10	2.4	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethene	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Acetone	4900	~~D~~ JL	400	66	20	03/21/14	03/21/14	KWG1402366	
Carbon Disulfide	~~ND~~	~~U~~	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Methylene Chloride	~~7.4~~	~~J~~ Q	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Acrylonitrile	18	~~J~~ Q	100	5.6	20	03/21/14	03/21/14	KWG1402366	
trans-1,2-Dichloroethene	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethane	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
2,2-Dichloropropane	ND	U	10	1.2	20	03/21/14	03/21/14	KWG1402366	
cis-1,2-Dichloroethene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
2-Butanone (MEK)	3300	~~D~~ JL	400	38	20	03/21/14	03/21/14	KWG1402366	
Bromochloromethane	~~ND~~	~~U~~	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Chloroform	2.4	~~J~~ Q	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1,1-Trichloroethane (TCA)	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Carbon Tetrachloride	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloropropene	ND	U	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Benzene	1.6	~~J~~ Q	10	1.3	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloroethane (EDC)	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Trichloroethene (TCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloropropane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
Dibromomethane	ND	U	10	3.0	20	03/21/14	03/21/14	KWG1402366	
Bromodichloromethane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
cis-1,3-Dichloropropene	ND	U	10	3.6	20	03/21/14	03/21/14	KWG1402366	
4-Methyl-2-pentanone (MIBK)	460	~~D~~ JL	400	52	20	03/21/14	03/21/14	KWG1402366	
Toluene	140	~~D~~ JL	10	1.1	20	03/21/14	03/21/14	KWG1402366	
trans-1,3-Dichloropropene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
1,1,2-Trichloroethane	ND	U	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Tetrachloroethene (PCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	

Comments:

MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101116	**Units:**	ug/L
Lab Code:	K1402510-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	~~U~~	400 UJL	54	20	03/21/14	03/21/14	KWG1402366	*
1,3-Dichloropropane	~~ND~~	~~U~~	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Dibromochloromethane	~~ND~~	~~U~~	10	2.8	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromoethane (EDB)	~~ND~~	~~U~~	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Chlorobenzene	~~ND~~	~~U~~	10	2.2	20	03/21/14	03/21/14	KWG1402366	
Ethylbenzene	**100**	~~D~~ JL	10	1.0	20	03/21/14	03/21/14	KWG1402366	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	10 UJL	2.2	20	03/21/14	03/21/14	KWG1402366	
m,p-Xylenes	**520**	~~D~~ JL	10	2.2	20	03/21/14	03/21/14	KWG1402366	
o-Xylene	**290**	~~D~~ JL	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Styrene	**13**	~~D~~ JL	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Bromoform	~~ND~~	~~U~~	10 UJL	3.2	20	03/21/14	03/21/14	KWG1402366	
Isopropylbenzene	**11**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,1,2,2-Tetrachloroethane	**3.8**	~~JD~~ Q	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Bromobenzene	~~ND~~	~~U~~	40 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Propylbenzene	**26**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichloropropane	~~ND~~	~~U~~	10 UJL	4.0	20	03/21/14	03/21/14	KWG1402366	
2-Chlorotoluene	~~ND~~	~~U~~	40 UJL	2.0	20	03/21/14	03/21/14	KWG1402366	
1,3,5-Trimethylbenzene	**56**	~~D~~ JL	40	1.8	20	03/21/14	03/21/14	KWG1402366	
4-Chlorotoluene	~~ND~~	~~U~~	40 UJL	2.6	20	03/21/14	03/21/14	KWG1402366	
tert-Butylbenzene	~~ND~~	~~U~~	40 UJL	1.2	20	03/21/14	03/21/14	KWG1402366	
1,2,4-Trimethylbenzene	**150**	~~D~~ JL	40	1.4	20	03/21/14	03/21/14	KWG1402366	
sec-Butylbenzene	**2.2**	~~JD~~ Q	40	1.3	20	03/21/14	03/21/14	KWG1402366	
4-Isopropyltoluene	**3.8**	~~JD~~ Q	40	1.2	20	03/21/14	03/21/14	KWG1402366	
1,3-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.0	20	03/21/14	03/21/14	KWG1402366	
1,4-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Butylbenzene	**6.6**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromo-3-chloropropane	**12**	~~JD~~ Q	40	4.0	20	03/21/14	03/21/14	KWG1402366	
1,2,4-Trichlorobenzene	**2.6**	~~JD~~ Q	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Hexachlorobutadiene	~~ND~~	~~U~~	40 UJL	2.2	20	03/21/14	03/21/14	KWG1402366	
Naphthalene	~~9.8~~	~~JD~~ Q	40 UJL	1.8	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichlorobenzene	~~ND~~	~~U~~	40 UJL	2.2	20	03/21/14	03/21/14	KWG1402366	

* See Case Narrative

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101116	**Units:**	ug/L
Lab Code:	K1402510-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	81	73-122	03/21/14	Acceptable
Toluene-d8	100	65-144	03/21/14	Acceptable
4-Bromofluorobenzene	99	68-117	03/21/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101117	**Units:**	ug/L
Lab Code:	K1402510-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	10	2.6	20	03/21/14	03/21/14	KWG1402366	
Chloromethane	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Vinyl Chloride	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Bromomethane	3.0	J	10	2.0	20	03/21/14	03/21/14	KWG1402366	
Chloroethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Trichlorofluoromethane	ND	U	10	2.4	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethene	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Acetone	370	J	400	66	20	03/21/14	03/21/14	KWG1402366	
Carbon Disulfide	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Methylene Chloride	6.4	J	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Acrylonitrile	ND	U	100	5.6	20	03/21/14	03/21/14	KWG1402366	
trans-1,2-Dichloroethene	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethane	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
2,2-Dichloropropane	ND	U	10	1.2	20	03/21/14	03/21/14	KWG1402366	
cis-1,2-Dichloroethene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
2-Butanone (MEK)	150	J	400	38	20	03/21/14	03/21/14	KWG1402366	
Bromochloromethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Chloroform	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1,1-Trichloroethane (TCA)	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Carbon Tetrachloride	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloropropene	ND	U	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Benzene	ND	U	10	1.3	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloroethane (EDC)	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Trichloroethene (TCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloropropane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
Dibromomethane	ND	U	10	3.0	20	03/21/14	03/21/14	KWG1402366	
Bromodichloromethane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
cis-1,3-Dichloropropene	ND	U	10	3.6	20	03/21/14	03/21/14	KWG1402366	
4-Methyl-2-pentanone (MIBK)	ND	U	400	52	20	03/21/14	03/21/14	KWG1402366	
Toluene	ND	U	10	1.1	20	03/21/14	03/21/14	KWG1402366	
trans-1,3-Dichloropropene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
1,1,2-Trichloroethane	ND	U	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Tetrachloroethene (PCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101117	**Units:**	ug/L
Lab Code:	K1402510-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	400	54	20	03/21/14	03/21/14	KWG1402366	*
1,3-Dichloropropane	ND	U	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Dibromochloromethane	ND	U	10	2.8	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromoethane (EDB)	ND	U	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Chlorobenzene	ND	U	10	2.2	20	03/21/14	03/21/14	KWG1402366	
Ethylbenzene	ND	U	10	1.0	20	03/21/14	03/21/14	KWG1402366	
1,1,1,2-Tetrachloroethane	ND	U	10	2.2	20	03/21/14	03/21/14	KWG1402366	
m,p-Xylenes	3.2	J Q	10	2.2	20	03/21/14	03/21/14	KWG1402366	
o-Xylene	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Styrene	ND	U	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Bromoform	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Isopropylbenzene	ND	U	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,1,2,2-Tetrachloroethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Bromobenzene	ND	U	40	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Propylbenzene	ND	U	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichloropropane	ND	U	10	4.0	20	03/21/14	03/21/14	KWG1402366	
2-Chlorotoluene	ND	U	40	2.0	20	03/21/14	03/21/14	KWG1402366	
1,3,5-Trimethylbenzene	ND	U	40	1.8	20	03/21/14	03/21/14	KWG1402366	
4-Chlorotoluene	ND	U	40	2.6	20	03/21/14	03/21/14	KWG1402366	
tert-Butylbenzene	ND	U	40	1.2	20	03/21/14	03/21/14	KWG1402366	
1,2,4-Trimethylbenzene	4.2	J Q	40	1.4	20	03/21/14	03/21/14	KWG1402366	
sec-Butylbenzene	ND	U	40	1.3	20	03/21/14	03/21/14	KWG1402366	
4-Isopropyltoluene	ND	U	40	1.2	20	03/21/14	03/21/14	KWG1402366	
1,3-Dichlorobenzene	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,4-Dichlorobenzene	ND	U	10	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Butylbenzene	2.2	J Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichlorobenzene	ND	U	10	2.4	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromo-3-chloropropane	ND	U	40	4.0	20	03/21/14	03/21/14	KWG1402366	*
1,2,4-Trichlorobenzene	ND	U	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Hexachlorobutadiene	ND	U	40	2.2	20	03/21/14	03/21/14	KWG1402366	*
Naphthalene	~~3.8~~	~~J Q~~	40	1.8	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichlorobenzene	~~ND~~	~~U~~	40	2.2	20	03/21/14	03/21/14	KWG1402366	

* See Case Narrative

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101117	**Units:**	ug/L
Lab Code:	K1402510-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	83	73-122	03/21/14	Acceptable
Toluene-d8	98	65-144	03/21/14	Acceptable
4-Bromofluorobenzene	101	68-117	03/21/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101118	**Units:**	ug/L
Lab Code:	K1402510-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	10	2.6	20	03/21/14	03/21/14	KWG1402366	
Chloromethane	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Vinyl Chloride	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Bromomethane	4.6	J Q	10	2.0	20	03/21/14	03/21/14	KWG1402366	
Chloroethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Trichlorofluoromethane	ND	U	10	2.4	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethene	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Acetone	2800	JL	400	66	20	03/21/14	03/21/14	KWG1402366	
Carbon Disulfide	~~ND~~	~~U~~	10	1.4	20	03/21/14	03/21/14	KWG1402366	
Methylene Chloride	~~6.8~~	~~J Q~~	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Acrylonitrile	13	J Q	100	5.6	20	03/21/14	03/21/14	KWG1402366	
trans-1,2-Dichloroethene	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloroethane	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
2,2-Dichloropropane	ND	U	10	1.2	20	03/21/14	03/21/14	KWG1402366	
cis-1,2-Dichloroethene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
2-Butanone (MEK)	2200	JL	400	38	20	03/21/14	03/21/14	KWG1402366	
Bromochloromethane	ND	U	10	3.2	20	03/21/14	03/21/14	KWG1402366	
Chloroform	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
1,1,1-Trichloroethane (TCA)	ND	U	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Carbon Tetrachloride	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,1-Dichloropropene	ND	U	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Benzene	ND	U	10	1.3	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloroethane (EDC)	ND	U	10	1.6	20	03/21/14	03/21/14	KWG1402366	
Trichloroethene (TCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichloropropane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
Dibromomethane	ND	U	10	3.0	20	03/21/14	03/21/14	KWG1402366	
Bromodichloromethane	ND	U	10	1.9	20	03/21/14	03/21/14	KWG1402366	
cis-1,3-Dichloropropene	ND	U	10	3.6	20	03/21/14	03/21/14	KWG1402366	
4-Methyl-2-pentanone (MIBK)	550	JL	400	52	20	03/21/14	03/21/14	KWG1402366	
Toluene	26	JL	10	1.1	20	03/21/14	03/21/14	KWG1402366	
trans-1,3-Dichloropropene	ND	U	10	1.4	20	03/21/14	03/21/14	KWG1402366	
1,1,2-Trichloroethane	ND	U	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Tetrachloroethene (PCE)	ND	U	10	2.0	20	03/21/14	03/21/14	KWG1402366	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101118	**Units:**	ug/L
Lab Code:	K1402510-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	~~U~~	400 UJL	54	20	03/21/14	03/21/14	KWG1402366	*
1,3-Dichloropropane	~~ND~~	~~U~~	10	2.8	20	03/21/14	03/21/14	KWG1402366	
Dibromochloromethane	~~ND~~	~~U~~	10	2.8	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromoethane (EDB)	~~ND~~	~~U~~	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Chlorobenzene	~~ND~~	~~U~~	10	2.2	20	03/21/14	03/21/14	KWG1402366	
Ethylbenzene	**37**	~~D~~ JL	10	1.0	20	03/21/14	03/21/14	KWG1402366	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	10 UJL	2.2	20	03/21/14	03/21/14	KWG1402366	
m,p-Xylenes	**190**	~~D~~ JL	10	2.2	20	03/21/14	03/21/14	KWG1402366	
o-Xylene	**140**	~~D~~	10	1.5	20	03/21/14	03/21/14	KWG1402366	
Styrene	**10**	~~D~~	10	1.8	20	03/21/14	03/21/14	KWG1402366	
Bromoform	~~ND~~	~~U~~	10 UJL	3.2	20	03/21/14	03/21/14	KWG1402366	
Isopropylbenzene	**6.0**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,1,2,2-Tetrachloroethane	~~ND~~	~~U~~	10 UJL	3.2	20	03/21/14	03/21/14	KWG1402366	
Bromobenzene	~~ND~~	~~U~~	40 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Propylbenzene	**16**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichloropropane	~~ND~~	~~U~~	10 UJL	4.0	20	03/21/14	03/21/14	KWG1402366	
2-Chlorotoluene	~~ND~~	~~U~~	40 UJL	2.0	20	03/21/14	03/21/14	KWG1402366	
1,3,5-Trimethylbenzene	**36**	~~JD~~ Q	40	1.8	20	03/21/14	03/21/14	KWG1402366	
4-Chlorotoluene	~~ND~~	~~U~~	40 UJL	2.6	20	03/21/14	03/21/14	KWG1402366	
tert-Butylbenzene	~~ND~~	~~U~~	40 UJL	1.2	20	03/21/14	03/21/14	KWG1402366	
1,2,4-Trimethylbenzene	**110**	~~D~~ JL	40	1.4	20	03/21/14	03/21/14	KWG1402366	
sec-Butylbenzene	**1.6**	~~JD~~ Q	40	1.3	20	03/21/14	03/21/14	KWG1402366	
4-Isopropyltoluene	**3.0**	~~JD~~ Q	40	1.2	20	03/21/14	03/21/14	KWG1402366	
1,3-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.0	20	03/21/14	03/21/14	KWG1402366	
1,4-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
n-Butylbenzene	**3.0**	~~JD~~ Q	40	1.1	20	03/21/14	03/21/14	KWG1402366	
1,2-Dichlorobenzene	~~ND~~	~~U~~	10 UJL	2.4	20	03/21/14	03/21/14	KWG1402366	
1,2-Dibromo-3-chloropropane	~~ND~~	~~U~~	40	4.0	20	03/21/14	03/21/14	KWG1402366	*
1,2,4-Trichlorobenzene	~~ND~~	~~U~~	40	2.0	20	03/21/14	03/21/14	KWG1402366	
Hexachlorobutadiene	~~ND~~	~~U~~	40	2.2	20	03/21/14	03/21/14	KWG1402366	*
Naphthalene	~~11~~	~~JD~~	40 UJL	1.8	20	03/21/14	03/21/14	KWG1402366	
1,2,3-Trichlorobenzene	~~ND~~	~~U~~	40 UJL	2.2	20	03/21/14	03/21/14	KWG1402366	

* See Case Narrative

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101118	**Units:**	ug/L
Lab Code:	K1402510-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	81	73-122	03/21/14	Acceptable
Toluene-d8	100	65-144	03/21/14	Acceptable
4-Bromofluorobenzene	102	68-117	03/21/14	Acceptable

Comments: MW 3/27/14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101119	**Units:**	ug/Kg
Lab Code:	K1402510-006	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	29	0.69	1	03/19/14	03/19/14	KWG1402250	
Chloromethane	ND	U	29	1.1	1	03/19/14	03/19/14	KWG1402250	
Vinyl Chloride	ND	U	29	1.1	1	03/19/14	03/19/14	KWG1402250	
Bromomethane	ND	U	29	1.2	1	03/19/14	03/19/14	KWG1402250	
Chloroethane	ND	U	29	4.3	1	03/19/14	03/19/14	KWG1402250	
Trichlorofluoromethane	ND	U	29	0.49	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethene	ND	U	29	1.5	1	03/19/14	03/19/14	KWG1402250	
Acetone	99	J	120	17	1	03/19/14	03/19/14	KWG1402250	
Carbon Disulfide	ND	U	29	0.53	1	03/19/14	03/19/14	KWG1402250	
Methylene Chloride	8.1	J	58	0.92	1	03/19/14	03/19/14	KWG1402250	
Acrylonitrile	ND	U	120	2.5	1	03/19/14	03/19/14	KWG1402250	
trans-1,2-Dichloroethene	ND	U	29	0.69	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethane	ND	U	29	0.69	1	03/19/14	03/19/14	KWG1402250	
2,2-Dichloropropane	ND	U	29	0.57	1	03/19/14	03/19/14	KWG1402250	
cis-1,2-Dichloroethene	ND	U	29	0.69	1	03/19/14	03/19/14	KWG1402250	
2-Butanone (MEK)	190		120	5.2	1	03/19/14	03/19/14	KWG1402250	
Bromochloromethane	ND	U	29	1.4	1	03/19/14	03/19/14	KWG1402250	
Chloroform	ND	U	29	0.64	1	03/19/14	03/19/14	KWG1402250	
1,1,1-Trichloroethane (TCA)	ND	U	29	0.64	1	03/19/14	03/19/14	KWG1402250	
Carbon Tetrachloride	ND	U	29	0.54	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloropropene	ND	U	29	0.75	1	03/19/14	03/19/14	KWG1402250	
Benzene	0.46	J	29	0.31	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloroethane (EDC)	ND	U	29	0.41	1	03/19/14	03/19/14	KWG1402250	
Trichloroethene (TCE)	ND	U	29	0.86	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloropropane	ND	U	29	0.75	1	03/19/14	03/19/14	KWG1402250	
Dibromomethane	ND	U	29	1.7	1	03/19/14	03/19/14	KWG1402250	
Bromodichloromethane	ND	U	29	0.92	1	03/19/14	03/19/14	KWG1402250	
cis-1,3-Dichloropropene	ND	U	29	0.75	1	03/19/14	03/19/14	KWG1402250	
4-Methyl-2-pentanone (MIBK)	42	J	120	11	1	03/19/14	03/19/14	KWG1402250	
Toluene	2.9	J	29	0.86	1	03/19/14	03/19/14	KWG1402250	
trans-1,3-Dichloropropene	ND	U	29	0.64	1	03/19/14	03/19/14	KWG1402250	
1,1,2-Trichloroethane	ND	U	29	0.86	1	03/19/14	03/19/14	KWG1402250	
Tetrachloroethene (PCE)	ND	U	29	0.92	1	03/19/14	03/19/14	KWG1402250	

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101119	**Units:**	ug/Kg
Lab Code:	K1402510-006	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	120	5.4	1	03/19/14	03/19/14	KWG1402250	
1,3-Dichloropropane	ND	U	29	0.69	1	03/19/14	03/19/14	KWG1402250	
Dibromochloromethane	ND	U	29	1.1	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dibromoethane (EDB)	ND	U	120	0.54	1	03/19/14	03/19/14	KWG1402250	
Chlorobenzene	ND	U	29	0.38	1	03/19/14	03/19/14	KWG1402250	
Ethylbenzene	13	J Q	29	0.54	1	03/19/14	03/19/14	KWG1402250	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	29	0.64	1	03/19/14	03/19/14	KWG1402250	
m,p-Xylenes	47		29	0.58	1	03/19/14	03/19/14	KWG1402250	
o-Xylene	20	J Q	29	0.47	1	03/19/14	03/19/14	KWG1402250	
Styrene	1.5	J Q	29	0.81	1	03/19/14	03/19/14	KWG1402250	
Bromoform	ND	U	29	0.81	1	03/19/14	03/19/14	KWG1402250	
Isopropylbenzene	ND	U	120	0.47	1	03/19/14	03/19/14	KWG1402250	
1,1,2,2-Tetrachloroethane	ND	U	29	0.75	1	03/19/14	03/19/14	KWG1402250	
Bromobenzene	ND	U	29	0.51	1	03/19/14	03/19/14	KWG1402250	
n-Propylbenzene	ND	U	120	0.75	1	03/19/14	03/19/14	KWG1402250	
1,2,3-Trichloropropane	ND	U	29	2.6	1	03/19/14	03/19/14	KWG1402250	
2-Chlorotoluene	ND	U	120	0.69	1	03/19/14	03/19/14	KWG1402250	
1,3,5-Trimethylbenzene	ND	U	120	0.53	1	03/19/14	03/19/14	KWG1402250	
4-Chlorotoluene	ND	U	120	0.51	1	03/19/14	03/19/14	KWG1402250	
tert-Butylbenzene	ND	U	120	0.81	1	03/19/14	03/19/14	KWG1402250	
1,2,4-Trimethylbenzene	ND	U	120	0.31	1	03/19/14	03/19/14	KWG1402250	
sec-Butylbenzene	ND	U	120	0.43	1	03/19/14	03/19/14	KWG1402250	
4-Isopropyltoluene	ND	U	120	0.37	1	03/19/14	03/19/14	KWG1402250	
1,3-Dichlorobenzene	ND	U	29	0.54	1	03/19/14	03/19/14	KWG1402250	
1,4-Dichlorobenzene	ND	U	29	0.50	1	03/19/14	03/19/14	KWG1402250	
n-Butylbenzene	ND	U	120	0.40	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichlorobenzene	ND	U	29	0.45	1	03/19/14	03/19/14	KWG1402250	
1,2-Dibromo-3-chloropropane	ND	U	120	2.3	1	03/19/14	03/19/14	KWG1402250	
1,2,4-Trichlorobenzene	ND	U	120	0.75	1	03/19/14	03/19/14	KWG1402250	
Hexachlorobutadiene	ND	U	120	2.3	1	03/19/14	03/19/14	KWG1402250	
Naphthalene	ND	U	120	0.75	1	03/19/14	03/19/14	KWG1402250	
1,2,3-Trichlorobenzene	ND	U	120	1.1	1	03/19/14	03/19/14	KWG1402250	

* See Case Narrative

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101119	**Units:**	ug/Kg
Lab Code:	K1402510-006	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	82-146	03/19/14	Acceptable
Toluene-d8	93	90-142	03/19/14	Acceptable
4-Bromofluorobenzene	96	88-127	03/19/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101120	**Units:**	ug/Kg
Lab Code:	K1402510-007	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	25	0.58	1	03/19/14	03/19/14	KWG1402250	
Chloromethane	ND	U	25	0.87	1	03/19/14	03/19/14	KWG1402250	
Vinyl Chloride	ND	U	25	0.87	1	03/19/14	03/19/14	KWG1402250	
Bromomethane	ND	U	25	0.97	1	03/19/14	03/19/14	KWG1402250	
Chloroethane	ND	U	25	3.6	1	03/19/14	03/19/14	KWG1402250	
Trichlorofluoromethane	ND	U	25	0.42	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethene	ND	U	25	1.3	1	03/19/14	03/19/14	KWG1402250	
Acetone	~~65~~	~~J~~ Q	97	15	1	03/19/14	03/19/14	KWG1402250	
Carbon Disulfide	~~ND~~	~~U~~	25	0.45	1	03/19/14	03/19/14	KWG1402250	
Methylene Chloride	~~7.7~~	~~J~~ Q	49	0.78	1	03/19/14	03/19/14	KWG1402250	
Acrylonitrile	ND	U	97	2.1	1	03/19/14	03/19/14	KWG1402250	
trans-1,2-Dichloroethene	ND	U	25	0.58	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethane	ND	U	25	0.58	1	03/19/14	03/19/14	KWG1402250	
2,2-Dichloropropane	ND	U	25	0.48	1	03/19/14	03/19/14	KWG1402250	
cis-1,2-Dichloroethene	ND	U	25	0.58	1	03/19/14	03/19/14	KWG1402250	
2-Butanone (MEK)	71	J Q	97	4.4	1	03/19/14	03/19/14	KWG1402250	
Bromochloromethane	ND	U	25	1.2	1	03/19/14	03/19/14	KWG1402250	
Chloroform	ND	U	25	0.54	1	03/19/14	03/19/14	KWG1402250	
1,1,1-Trichloroethane (TCA)	ND	U	25	0.54	1	03/19/14	03/19/14	KWG1402250	
Carbon Tetrachloride	ND	U	25	0.46	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloropropene	ND	U	25	0.63	1	03/19/14	03/19/14	KWG1402250	
Benzene	0.63	J Q	25	0.27	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloroethane (EDC)	ND	U	25	0.34	1	03/19/14	03/19/14	KWG1402250	
Trichloroethene (TCE)	ND	U	25	0.73	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloropropane	ND	U	25	0.63	1	03/19/14	03/19/14	KWG1402250	
Dibromomethane	ND	U	25	1.4	1	03/19/14	03/19/14	KWG1402250	
Bromodichloromethane	ND	U	25	0.78	1	03/19/14	03/19/14	KWG1402250	
cis-1,3-Dichloropropene	ND	U	25	0.63	1	03/19/14	03/19/14	KWG1402250	
4-Methyl-2-pentanone (MIBK)	25	J Q	97	8.7	1	03/19/14	03/19/14	KWG1402250	
Toluene	110	JL	25	0.73	1	03/19/14	03/19/14	KWG1402250	
trans-1,3-Dichloropropene	ND	U	25	0.54	1	03/19/14	03/19/14	KWG1402250	
1,1,2-Trichloroethane	ND	U	25	0.73	1	03/19/14	03/19/14	KWG1402250	
Tetrachloroethene (PCE)	ND	U	25	0.78	1	03/19/14	03/19/14	KWG1402250	

Comments: JMN 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101120	**Units:**	ug/Kg
Lab Code:	K1402510-007	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	U	97 U JL	4.5	1	03/19/14	03/19/14	KWG1402250	
1,3-Dichloropropane	~~ND~~	U	25	0.58	1	03/19/14	03/19/14	KWG1402250	
Dibromochloromethane	~~ND~~	U	25	0.87	1	03/19/14	03/19/14	KWG1402250	
1,2-Dibromoethane (EDB)	~~ND~~	U	97	0.46	1	03/19/14	03/19/14	KWG1402250	
Chlorobenzene	~~ND~~	U MU	25	0.32	1	03/19/14	03/19/14	KWG1402250	MU
Ethylbenzene	19	J Q	25	0.46	1	03/19/14	03/19/14	KWG1402250	
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~ MU	25 U JL	0.54	1	03/19/14	03/19/14	KWG1402250	
m,p-Xylenes	73	JL	25	0.49	1	03/19/14	03/19/14	KWG1402250	
o-Xylene	29	JL	25	0.40	1	03/19/14	03/19/14	KWG1402250	
Styrene	1.9	J Q	25	0.68	1	03/19/14	03/19/14	KWG1402250	
Bromoform	~~ND~~	~~U~~ MU	25 U JL	0.68	1	03/19/14	03/19/14	KWG1402250	
Isopropylbenzene	1.9	J Q	97	0.40	1	03/19/14	03/19/14	KWG1402250	
1,1,2,2-Tetrachloroethane	~~ND~~	U	25 U JL	0.63	1	03/19/14	03/19/14	KWG1402250	
Bromobenzene	~~ND~~	U MU	25 U JL	0.43	1	03/19/14	03/19/14	KWG1402250	
n-Propylbenzene	4.0	J Q	97	0.63	1	03/19/14	03/19/14	KWG1402250	
1,2,3-Trichloropropane	~~ND~~	U	25 U JL	2.2	1	03/19/14	03/19/14	KWG1402250	
2-Chlorotoluene	~~ND~~	U MU	97 U JL	0.58	1	03/19/14	03/19/14	KWG1402250	
1,3,5-Trimethylbenzene	4.2	J Q	97	0.45	1	03/19/14	03/19/14	KWG1402250	
4-Chlorotoluene	~~ND~~	U	97 U JL	0.43	1	03/19/14	03/19/14	KWG1402250	
tert-Butylbenzene	~~ND~~	U MU	97 U JL	0.68	1	03/19/14	03/19/14	KWG1402250	
1,2,4-Trimethylbenzene	~~9.4~~	~~J~~ Q MU	97 UJL	0.27	1	03/19/14	03/19/14	KWG1402250	
sec-Butylbenzene	~~ND~~	U	97 U JL	0.36	1	03/19/14	03/19/14	KWG1402250	
4-Isopropyltoluene	~~ND~~	U	97	0.31	1	03/19/14	03/19/14	KWG1402250	
1,3-Dichlorobenzene	~~ND~~	U	25	0.46	1	03/19/14	03/19/14	KWG1402250	
1,4-Dichlorobenzene	~~ND~~	U MU	25	0.42	1	03/19/14	03/19/14	KWG1402250	
n-Butylbenzene	~~1.4~~	~~J~~ Q MU	97 U JL	0.34	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichlorobenzene	~~ND~~	U	25 U JL	0.38	1	03/19/14	03/19/14	KWG1402250	
1,2-Dibromo-3-chloropropane	~~ND~~	U	97	2.0	1	03/19/14	03/19/14	KWG1402250	
1,2,4-Trichlorobenzene	~~ND~~	U	97	0.63	1	03/19/14	03/19/14	KWG1402250	
Hexachlorobutadiene	~~ND~~	U MU	97	2.0	1	03/19/14	03/19/14	KWG1402250	
Naphthalene	0.72	J Q	97	0.63	1	03/19/14	03/19/14	KWG1402250	
1,2,3-Trichlorobenzene	~~ND~~	~~U~~ MU	97 UJL	0.92	1	03/19/14	03/19/14	KWG1402250	

* See Case Narrative

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101120	**Units:**	ug/Kg
Lab Code:	K1402510-007	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	82-146	03/19/14	Acceptable
Toluene-d8	94	90-142	03/19/14	Acceptable
4-Bromofluorobenzene	96	88-127	03/19/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101121	**Units:**	ug/Kg
Lab Code:	K1402510-008	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	~~ND~~	~~U~~	5.6 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	
Chloromethane	~~ND~~	~~U~~	5.6	0.21	1	03/19/14	03/19/14	KWG1402250	
Vinyl Chloride	~~ND~~	~~U~~	5.6	0.21	1	03/19/14	03/19/14	KWG1402250	
Bromomethane	~~ND~~	~~U~~	5.6	0.23	1	03/19/14	03/19/14	KWG1402250	
Chloroethane	~~ND~~	~~U~~	5.6	0.83	1	03/19/14	03/19/14	KWG1402250	
Trichlorofluoromethane	~~ND~~	~~U~~	5.6	0.095	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethene	~~ND~~	~~U~~ UMM	5.6	0.28	1	03/19/14	03/19/14	KWG1402250	
Acetone	**410**	JL	23	3.3	1	03/19/14	03/19/14	KWG1402250	
Carbon Disulfide	~~ND~~	~~U~~ UMM	5.6 UJL	0.11	1	03/19/14	03/19/14	KWG1402250	
Methylene Chloride	~~1.8~~	~~J~~ QM	12 UJL	0.18	1	03/19/14	03/19/14	KWG1402250	
Acrylonitrile	**9.2**	J Q	23	0.48	1	03/19/14	03/19/14	KWG1402250	
trans-1,2-Dichloroethene	~~ND~~	~~U~~	5.6 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloroethane	~~ND~~	~~U~~	5.6	0.14	1	03/19/14	03/19/14	KWG1402250	
2,2-Dichloropropane	~~ND~~	~~U~~	5.6	0.11	1	03/19/14	03/19/14	KWG1402250	
cis-1,2-Dichloroethene	~~ND~~	~~U~~ UMM	5.6	0.14	1	03/19/14	03/19/14	KWG1402250	
2-Butanone (MEK)	**230**	JL	23	1.1	1	03/19/14	03/19/14	KWG1402250	
Bromochloromethane	~~ND~~	~~U~~	5.6 UJL	0.27	1	03/19/14	03/19/14	KWG1402250	
Chloroform	~~ND~~	~~U~~	5.6	0.13	1	03/19/14	03/19/14	KWG1402250	
1,1,1-Trichloroethane (TCA)	~~ND~~	~~U~~	5.6	0.13	1	03/19/14	03/19/14	KWG1402250	
Carbon Tetrachloride	~~ND~~	~~U~~	5.6	0.11	1	03/19/14	03/19/14	KWG1402250	
1,1-Dichloropropene	~~ND~~	~~U~~	5.6	0.15	1	03/19/14	03/19/14	KWG1402250	
Benzene	~~ND~~	~~U~~	5.6	0.061	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloroethane (EDC)	~~ND~~	~~U~~	5.6	0.078	1	03/19/14	03/19/14	KWG1402250	
Trichloroethene (TCE)	~~ND~~	~~U~~	5.6	0.17	1	03/19/14	03/19/14	KWG1402250	
1,2-Dichloropropane	~~ND~~	~~U~~	5.6	0.15	1	03/19/14	03/19/14	KWG1402250	
Dibromomethane	~~ND~~	~~U~~	5.6	0.32	1	03/19/14	03/19/14	KWG1402250	
Bromodichloromethane	~~ND~~	~~U~~	5.6	0.18	1	03/19/14	03/19/14	KWG1402250	
cis-1,3-Dichloropropene	~~ND~~	~~U~~ UMM	5.6	0.15	1	03/19/14	03/19/14	KWG1402250	
4-Methyl-2-pentanone (MIBK)	**26**	JL	23	2.1	1	03/19/14	03/19/14	KWG1402250	
Toluene	**6.8**	JL	5.6	0.17	1	03/19/14	03/19/14	KWG1402250	
trans-1,3-Dichloropropene	~~ND~~	~~U~~	5.6 UJL	0.13	1	03/19/14	03/19/14	KWG1402250	
1,1,2-Trichloroethane	~~ND~~	~~U~~	5.6	0.17	1	03/19/14	03/19/14	KWG1402250	
Tetrachloroethene (PCE)	~~ND~~	~~U~~ UMM	5.6	0.18	1	03/19/14	03/19/14	KWG1402250	UMM

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101121	**Units:**	ug/Kg
Lab Code:	K1402510-008	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	U	23 UJL	1.1	1	03/19/14	03/19/14	KWG1402250	*
1,3-Dichloropropane	~~ND~~	U	5.6	0.14	1	03/19/14	03/19/14	KWG1402250	*
Dibromochloromethane	~~ND~~	U	5.6	0.21	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dibromoethane (EDB)	ND	U	23	0.11	1	03/19/14	03/19/14	KWG1402250	*
Chlorobenzene	ND	U	5.6	0.073	1	03/19/14	03/19/14	KWG1402250	*
Ethylbenzene	2.3	J Q	5.6	0.11	1	03/19/14	03/19/14	KWG1402250	*
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~	5.6 UJL	0.13	1	03/19/14	03/19/14	KWG1402250	*
m,p-Xylenes	13	J	5.6	0.12	1	03/19/14	03/19/14	KWG1402250	*
o-Xylene	8.2	J	5.6	0.091	1	03/19/14	03/19/14	KWG1402250	*
Styrene	0.48	J Q	5.6	0.16	1	03/19/14	03/19/14	KWG1402250	*
Bromoform	~~ND~~	~~U~~	5.6 UJL	0.16	1	03/19/14	03/19/14	KWG1402250	*
Isopropylbenzene	0.16	J Q	23	0.091	1	03/19/14	03/19/14	KWG1402250	*
1,1,2,2-Tetrachloroethane	~~ND~~	U	5.6 UJL	0.15	1	03/19/14	03/19/14	KWG1402250	*
Bromobenzene	ND	U	5.6 UJL	0.099	1	03/19/14	03/19/14	KWG1402250	*
n-Propylbenzene	0.41	J Q	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
1,2,3-Trichloropropane	~~ND~~	U	5.6 UJL	0.51	1	03/19/14	03/19/14	KWG1402250	*
2-Chlorotoluene	ND	U	23 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	*
1,3,5-Trimethylbenzene	1.7	J Q	23	0.11	1	03/19/14	03/19/14	KWG1402250	*
4-Chlorotoluene	~~ND~~	U	23 UJL	0.099	1	03/19/14	03/19/14	KWG1402250	*
tert-Butylbenzene	ND	U	23 UJL	0.16	1	03/19/14	03/19/14	KWG1402250	*
1,2,4-Trimethylbenzene	~~3.4~~	~~J Q~~	23 UJL	0.061	1	03/19/14	03/19/14	KWG1402250	*
sec-Butylbenzene	~~ND~~	U	23 UJL	0.083	1	03/19/14	03/19/14	KWG1402250	*
4-Isopropyltoluene	~~ND~~	U	23	0.072	1	03/19/14	03/19/14	KWG1402250	*
1,3-Dichlorobenzene	ND	U	5.6	0.11	1	03/19/14	03/19/14	KWG1402250	*
1,4-Dichlorobenzene	ND	U	5.6 UJL	0.096	1	03/19/14	03/19/14	KWG1402250	*
n-Butylbenzene	~~0.36~~	~~J Q~~	23 UJL	0.077	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dichlorobenzene	~~ND~~	U	5.6 UJL	0.086	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dibromo-3-chloropropane	~~ND~~	U	23	0.45	1	03/19/14	03/19/14	KWG1402250	*
1,2,4-Trichlorobenzene	ND	U	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
Hexachlorobutadiene	ND	U	23 UJL	0.45	1	03/19/14	03/19/14	KWG1402250	*
Naphthalene	0.35	J Q	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
1,2,3-Trichlorobenzene	~~ND~~	~~U~~	23 UJL	0.22	1	03/19/14	03/19/14	KWG1402250	*

* See Case Narrative

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101121	**Units:**	ug/Kg
Lab Code:	K1402510-008	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	82-146	03/19/14	Acceptable
Toluene-d8	87	90-142	03/19/14	Outside Control Limits
4-Bromofluorobenzene	92	88-127	03/19/14	Acceptable

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101122	**Units:**	ug/Kg
Lab Code:	K1402510-009	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	~~ND~~	~~U~~	5.8 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	*
Chloromethane	~~ND~~	~~U~~	5.8	0.21	1	03/19/14	03/19/14	KWG1402250	*
Vinyl Chloride	~~ND~~	~~U~~	5.8	0.21	1	03/19/14	03/19/14	KWG1402250	*
Bromomethane	~~ND~~	~~U~~	5.8	0.23	1	03/19/14	03/19/14	KWG1402250	*
Chloroethane	~~ND~~	~~U~~	5.8	0.85	1	03/19/14	03/19/14	KWG1402250	*
Trichlorofluoromethane	~~ND~~	~~U~~	5.8	0.098	1	03/19/14	03/19/14	KWG1402250	*
1,1-Dichloroethene	~~ND~~	~~U~~ MW	5.8 UJL	0.29	1	03/19/14	03/19/14	KWG1402250	*
Acetone	82	JK	23	3.4	1	03/19/14	03/19/14	KWG1402250	*
Carbon Disulfide	~~ND~~	~~U~~ MW	5.8 UJL	0.11	1	03/19/14	03/19/14	KWG1402250	*
Methylene Chloride	~~2.8~~	~~J~~ QM	12 UJL	0.19	1	03/19/14	03/19/14	KWG1402250	*
Acrylonitrile	3.4	J Q	23	0.50	1	03/19/14	03/19/14	KWG1402250	*
trans-1,2-Dichloroethene	~~ND~~	~~U~~	5.8 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	*
1,1-Dichloroethane	~~ND~~	~~U~~	5.8	0.14	1	03/19/14	03/19/14	KWG1402250	*
2,2-Dichloropropane	~~ND~~	~~U~~	5.8	0.12	1	03/19/14	03/19/14	KWG1402250	*
cis-1,2-Dichloroethene	~~ND~~	~~U~~ MW	5.8 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	*
2-Butanone (MEK)	62	JK	23	1.1	1	03/19/14	03/19/14	KWG1402250	*
Bromochloromethane	~~ND~~	~~U~~ MW	5.8 UJL	0.28	1	03/19/14	03/19/14	KWG1402250	*
Chloroform	0.28	J Q	5.8	0.13	1	03/19/14	03/19/14	KWG1402250	*
1,1,1-Trichloroethane (TCA)	~~ND~~	~~U~~	5.8 UJL	0.13	1	03/19/14	03/19/14	KWG1402250	*
Carbon Tetrachloride	~~ND~~	~~U~~	5.8	0.11	1	03/19/14	03/19/14	KWG1402250	*
1,1-Dichloropropene	~~ND~~	~~U~~	5.8	0.15	1	03/19/14	03/19/14	KWG1402250	*
Benzene	~~ND~~	~~U~~	5.8	0.062	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dichloroethane (EDC)	~~ND~~	~~U~~	5.8	0.081	1	03/19/14	03/19/14	KWG1402250	*
Trichloroethene (TCE)	~~ND~~	~~U~~	5.8	0.18	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dichloropropane	~~ND~~	~~U~~	5.8	0.15	1	03/19/14	03/19/14	KWG1402250	*
Dibromomethane	~~ND~~	~~U~~	5.8	0.33	1	03/19/14	03/19/14	KWG1402250	*
Bromodichloromethane	~~ND~~	~~U~~	5.8	0.19	1	03/19/14	03/19/14	KWG1402250	*
cis-1,3-Dichloropropene	~~ND~~	~~U~~ MW	5.8 UJL	0.15	1	03/19/14	03/19/14	KWG1402250	*
4-Methyl-2-pentanone (MIBK)	13	J Q	23	2.1	1	03/19/14	03/19/14	KWG1402250	*
Toluene	5.5	J Q	5.8	0.18	1	03/19/14	03/19/14	KWG1402250	*
trans-1,3-Dichloropropene	~~ND~~	~~U~~	5.8 UJL	0.13	1	03/19/14	03/19/14	KWG1402250	*
1,1,2-Trichloroethane	~~ND~~	~~U~~	5.8	0.18	1	03/19/14	03/19/14	KWG1402250	*
Tetrachloroethene (PCE)	~~ND~~	~~U~~ MW	5.8 UJL	0.19	1	03/19/14	03/19/14	KWG1402250	* MW

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101122	**Units:**	ug/Kg
Lab Code:	K1402510-009	**Basis:**	Dry
Extraction Method:	EPA 5030A	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	~~ND~~	~~U~~	23 UJL	1.1	1	03/19/14	03/19/14	KWG1402250	*
1,3-Dichloropropane	~~ND~~	~~U~~	5.8	0.14	1	03/19/14	03/19/14	KWG1402250	*
Dibromochloromethane	~~ND~~	~~U~~	5.8	0.21	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dibromoethane (EDB)	~~ND~~	~~U~~	23	0.11	1	03/19/14	03/19/14	KWG1402250	*
Chlorobenzene	~~ND~~	~~U~~ MU	5.8	0.075	1	03/19/14	03/19/14	KWG1402250	*
Ethylbenzene	**2.2**	J Q	5.8	0.11	1	03/19/14	03/19/14	KWG1402250	*
1,1,1,2-Tetrachloroethane	~~ND~~	~~U~~ MU	5.8 UJL	0.13	1	03/19/14	03/19/14	KWG1402250	*
m,p-Xylenes	**11**	J K	5.8	0.12	1	03/19/14	03/19/14	KWG1402250	*
o-Xylene	**6.3**	J K	5.8	0.093	1	03/19/14	03/19/14	KWG1402250	*
Styrene	**3.3**	J Q	5.8	0.17	1	03/19/14	03/19/14	KWG1402250	*
Bromoform	~~ND~~	~~U~~	5.8 UJL	0.17	1	03/19/14	03/19/14	KWG1402250	*
Isopropylbenzene	~~ND~~	~~U~~	23	0.093	1	03/19/14	03/19/14	KWG1402250	*
1,1,2,2-Tetrachloroethane	~~ND~~	~~U~~	5.8	0.15	1	03/19/14	03/19/14	KWG1402250	*
Bromobenzene	~~ND~~	~~U~~ MU	5.8	0.11	1	03/19/14	03/19/14	KWG1402250	*
n-Propylbenzene	**0.31**	J Q	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
1,2,3-Trichloropropane	~~ND~~	~~U~~	5.8 UJL	0.52	1	03/19/14	03/19/14	KWG1402250	*
2-Chlorotoluene	~~ND~~	~~U~~ MU	23 UJL	0.14	1	03/19/14	03/19/14	KWG1402250	*
1,3,5-Trimethylbenzene	**1.1**	J Q	23	0.11	1	03/19/14	03/19/14	KWG1402250	*
4-Chlorotoluene	~~ND~~	~~U~~	23 UJL	0.11	1	03/19/14	03/19/14	KWG1402250	*
tert-Butylbenzene	~~ND~~	~~U~~ MU	23 UJL	0.17	1	03/19/14	03/19/14	KWG1402250	*
1,2,4-Trimethylbenzene	~~2.6~~	~~J Q~~ MU	23 UJL	0.062	1	03/19/14	03/19/14	KWG1402250	*
sec-Butylbenzene	~~ND~~	~~U~~	23 UJL	0.085	1	03/19/14	03/19/14	KWG1402250	*
4-Isopropyltoluene	~~ND~~	~~U~~	23	0.074	1	03/19/14	03/19/14	KWG1402250	*
1,3-Dichlorobenzene	~~ND~~	~~U~~	5.8	0.11	1	03/19/14	03/19/14	KWG1402250	*
1,4-Dichlorobenzene	~~ND~~	~~U~~	5.8	0.099	1	03/19/14	03/19/14	KWG1402250	*
n-Butylbenzene	~~ND~~	~~U~~	23	0.080	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dichlorobenzene	~~ND~~	~~U~~	5.8	0.089	1	03/19/14	03/19/14	KWG1402250	*
1,2-Dibromo-3-chloropropane	~~ND~~	~~U~~	23	0.46	1	03/19/14	03/19/14	KWG1402250	*
1,2,4-Trichlorobenzene	~~ND~~	~~U~~	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
Hexachlorobutadiene	~~ND~~	~~U~~ MU	23	0.46	1	03/19/14	03/19/14	KWG1402250	*
Naphthalene	**0.22**	J Q	23	0.15	1	03/19/14	03/19/14	KWG1402250	*
1,2,3-Trichlorobenzene	~~ND~~	~~U~~ MU	23 UJL	0.22	1	03/19/14	03/19/14	KWG1402250	* MU

* See Case Narrative

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Soil	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101122	**Units:**	ug/Kg
Lab Code:	K1402510-009	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	85	82-146	03/19/14	Acceptable
Toluene-d8	85	90-142	03/19/14	Outside Control Limits
4-Bromofluorobenzene	94	88-127	03/19/14	Acceptable

JMW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101123	**Units:**	ug/L
Lab Code:	K1402510-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	~~ND~~	~~U~~	0.50	~~0.13~~	1	03/20/14	03/20/14	KWG1402261	
Chloromethane	0.090	J Q	0.50	0.068	1	03/20/14	03/20/14	KWG1402261	
Vinyl Chloride	~~ND~~	~~U~~	0.50	0.075	1	03/20/14	03/20/14	KWG1402261	
Bromomethane	0.36	J Q	0.50	0.10	1	03/20/14	03/20/14	KWG1402261	
Chloroethane	ND	U	0.50	0.16	1	03/20/14	03/20/14	KWG1402261	
Trichlorofluoromethane	ND	U	0.50	0.12	1	03/20/14	03/20/14	KWG1402261	
1,1-Dichloroethene	ND	U	0.50	0.080	1	03/20/14	03/20/14	KWG1402261	
Acetone	5.4	J Q	20	3.3	1	03/20/14	03/20/14	KWG1402261	
Carbon Disulfide	~~ND~~	~~U~~	0.50	~~0.069~~	1	03/20/14	03/20/14	KWG1402261	
Methylene Chloride	~~0.31~~	~~J Q~~	2.0	0.10	1	03/20/14	03/20/14	KWG1402261	
Acrylonitrile	ND	U	5.0	0.28	1	03/20/14	03/20/14	KWG1402261	
trans-1,2-Dichloroethene	ND	U	0.50	0.072	1	03/20/14	03/20/14	KWG1402261	
1,1-Dichloroethane	ND	U	0.50	0.077	1	03/20/14	03/20/14	KWG1402261	
2,2-Dichloropropane	ND	U	0.50	0.060	1	03/20/14	03/20/14	KWG1402261	
cis-1,2-Dichloroethene	ND	U	0.50	0.067	1	03/20/14	03/20/14	KWG1402261	
2-Butanone (MEK)	2.1	J Q	20	1.9	1	03/20/14	03/20/14	KWG1402261	
Bromochloromethane	ND	U	0.50	0.16	1	03/20/14	03/20/14	KWG1402261	
Chloroform	ND	U	0.50	0.072	1	03/20/14	03/20/14	KWG1402261	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.075	1	03/20/14	03/20/14	KWG1402261	
Carbon Tetrachloride	ND	U	0.50	0.096	1	03/20/14	03/20/14	KWG1402261	
1,1-Dichloropropene	ND	U	0.50	0.089	1	03/20/14	03/20/14	KWG1402261	
Benzene	ND	U	0.50	0.062	1	03/20/14	03/20/14	KWG1402261	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.080	1	03/20/14	03/20/14	KWG1402261	
Trichloroethene (TCE)	ND	U	0.50	0.10	1	03/20/14	03/20/14	KWG1402261	
1,2-Dichloropropane	ND	U	0.50	0.095	1	03/20/14	03/20/14	KWG1402261	
Dibromomethane	ND	U	0.50	0.15	1	03/20/14	03/20/14	KWG1402261	
Bromodichloromethane	ND	U	0.50	0.091	1	03/20/14	03/20/14	KWG1402261	
cis-1,3-Dichloropropene	ND	U	0.50	0.18	1	03/20/14	03/20/14	KWG1402261	
4-Methyl-2-pentanone (MIBK)	ND	U	20	2.6	1	03/20/14	03/20/14	KWG1402261	
Toluene	ND	U	0.50	0.054	1	03/20/14	03/20/14	KWG1402261	
trans-1,3-Dichloropropene	ND	U	0.50	0.068	1	03/20/14	03/20/14	KWG1402261	
1,1,2-Trichloroethane	ND	U	0.50	0.14	1	03/20/14	03/20/14	KWG1402261	
Tetrachloroethene (PCE)	ND	U	0.50	0.099	1	03/20/14	03/20/14	KWG1402261	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101123	**Units:**	ug/L
Lab Code:	K1402510-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	2.7	1	03/20/14	03/20/14	KWG1402261	
1,3-Dichloropropane	ND	U	0.50	0.14	1	03/20/14	03/20/14	KWG1402261	
Dibromochloromethane	ND	U	0.50	0.14	1	03/20/14	03/20/14	KWG1402261	
1,2-Dibromoethane (EDB)	ND	U	2.0	0.10	1	03/20/14	03/20/14	KWG1402261	
Chlorobenzene	ND	U	0.50	0.11	1	03/20/14	03/20/14	KWG1402261	
Ethylbenzene	ND	U	0.50	0.050	1	03/20/14	03/20/14	KWG1402261	
1,1,1,2-Tetrachloroethane	ND	U	0.50	0.11	1	03/20/14	03/20/14	KWG1402261	
m,p-Xylenes	ND	U	0.50	0.11	1	03/20/14	03/20/14	KWG1402261	
o-Xylene	ND	U	0.50	0.074	1	03/20/14	03/20/14	KWG1402261	
Styrene	ND	U	0.50	0.089	1	03/20/14	03/20/14	KWG1402261	
Bromoform	ND	U	0.50	0.16	1	03/20/14	03/20/14	KWG1402261	
Isopropylbenzene	ND	U	2.0	0.051	1	03/20/14	03/20/14	KWG1402261	
1,1,2,2-Tetrachloroethane	ND	U	0.50	0.16	1	03/20/14	03/20/14	KWG1402261	
Bromobenzene	ND	U	2.0	0.12	1	03/20/14	03/20/14	KWG1402261	
n-Propylbenzene	ND	U	2.0	0.054	1	03/20/14	03/20/14	KWG1402261	
1,2,3-Trichloropropane	ND	U	0.50	0.20	1	03/20/14	03/20/14	KWG1402261	
2-Chlorotoluene	ND	U	2.0	0.10	1	03/20/14	03/20/14	KWG1402261	
1,3,5-Trimethylbenzene	ND	U	2.0	0.089	1	03/20/14	03/20/14	KWG1402261	
4-Chlorotoluene	ND	U	2.0	0.13	1	03/20/14	03/20/14	KWG1402261	
tert-Butylbenzene	ND	U	2.0	0.059	1	03/20/14	03/20/14	KWG1402261	
1,2,4-Trimethylbenzene	ND	U	2.0	0.069	1	03/20/14	03/20/14	KWG1402261	
sec-Butylbenzene	ND	U	2.0	0.062	1	03/20/14	03/20/14	KWG1402261	
4-Isopropyltoluene	ND	U	2.0	0.060	1	03/20/14	03/20/14	KWG1402261	
1,3-Dichlorobenzene	ND	U	0.50	0.10	1	03/20/14	03/20/14	KWG1402261	
1,4-Dichlorobenzene	ND	U	0.50	0.12	1	03/20/14	03/20/14	KWG1402261	
n-Butylbenzene	ND	U	2.0	0.054	1	03/20/14	03/20/14	KWG1402261	
1,2-Dichlorobenzene	ND	U	0.50	0.12	1	03/20/14	03/20/14	KWG1402261	
1,2-Dibromo-3-chloropropane	ND	U	2.0	0.20	1	03/20/14	03/20/14	KWG1402261	
1,2,4-Trichlorobenzene	ND	U	2.0	0.096	1	03/20/14	03/20/14	KWG1402261	
Hexachlorobutadiene	ND	U	2.0	0.11	1	03/20/14	03/20/14	KWG1402261	
Naphthalene	ND	U	2.0	0.088	1	03/20/14	03/20/14	KWG1402261	
1,2,3-Trichlorobenzene	ND	U	2.0	0.11	1	03/20/14	03/20/14	KWG1402261	

* See Case Narrative

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Volatile Organic Compounds

Sample Name:	13101123	**Units:**	ug/L
Lab Code:	K1402510-010	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	76	73-122	03/20/14	Acceptable
Toluene-d8	99	65-144	03/20/14	Acceptable
4-Bromofluorobenzene	96	68-117	03/20/14	Acceptable

Comments: MW 3-27-14

ecology and environment, inc.
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MEMORANDUM

DATE: March 27, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 3 liquid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. Flash point (EPA Method 1020B) analyses were performed by ALS, Inc., Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BM) for these sample results.

The samples were numbered: 13101116 13101117 13101118

Data Qualifications:

The samples were maintained within the QC limits of < 6°C but were measured at 11°C upon receipt at the laboratory; for this reason, sample results are qualified as estimated quantities with a low bias (JL or UJL). The samples were collected on March 12, 2014, and were analyzed on March 20, 2014, for flash point. All samples were analyzed within QC holding time limits of less than 14 days between collection and flash point analysis.

There were no detections in the flash point method blank. The flash point duplicate and laboratory control sample results were within QC limits. The p-xylene standard results were within QC limits but the 1-butanol standard result exceeded the QC limits by 1°C; all sample results were qualified as an estimated quantity with a likely high bias (JH).

The reviewer used professional judgment to apply a single bias qualifier when more than one bias qualifier was applicable to an individual estimated sample result.

In the reviewers' professional judgment, all sample results were acceptable except as noted.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

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Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	3/12/2014
Sample Matrix:	Water	**Date Received:**	3/13/2014

Flash Point

Prep Method:	NONE	Units:	deg C
Analysis Method:	1020B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
13101116	K1402510-003	-	-	1	NA	3/20/2014	<20	JH JK
13101117	K1402510-004	-	-	1	NA	3/20/2014	>110	JH JK
13101118	K1402510-005	-	-	1	NA	3/20/2014	<20	JH JK
~~Method Blank~~	~~K1402510-MB~~	~~-~~	~~-~~	~~1~~	~~NA~~	~~3/20/2014~~	~~>110~~	

MW 3-27-14

ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: March 27, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of 2 solid samples collected from the Ferry Street Property ATL site located in Albany, Oregon, has been completed. pH (EPA method 9045D) analysis was performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BVM) for these sample results.

The samples were numbered: 13101114 13101115

Data Qualifications:

The samples were maintained within the QC limits of < 6°C but were measured at 11°C upon receipt at the laboratory; for this reason, sample results are qualified as estimated quantities with a low bias (JL or UJL). The samples were collected on March 12, 2014, and were analyzed on March 18, 2014 for pH. pH analysis should be performed as soon as possible according to the method; the pH results were qualified as estimated quantities with an unknown bias (JK).

The pH initial calibration, buffer, replicate and laboratory control sample results were within QC limits.

The reviewer used professional judgment to apply a single bias qualifier when more than one bias qualifier was applicable to an individual estimated sample result.

In the reviewers' professional judgment, all sample results were acceptable except as noted.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan, the OSWER Directive "Quality Assurance/Quality Control Guidance for Removal Activities, Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

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Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/14
Sample Matrix:	Soil	**Date Received:**	03/13/14
Analysis Method:	9045D	**Units:**	pH Units
Prep Method:	None	**Basis:**	As Received

pH

Sample Name	Lab Code	Result		MRL	MDL	Dil.	Date Analyzed	Q
13101114	K1402510-001	7.25	JK	-	-	1	03/18/14 17:32	
13101115	K1402510-002	7.27	JK	-	-	1	03/18/14 17:36	

MW 32714

ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: March 27, 2014

TO: Jim Petersen, START-4 Project Manager, E & E, Portland, OR

FROM: Mark Woodke, START-4 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Quality Assurance Review, Ferry Street Property ATL Site, Albany, Oregon**

REF: TDD: 13-10-0006 PAN: EE-004534-0035-01TTO

The data quality assurance review of four liquid/liquid waste samples collected from the Ferry Street Property ATL site in Albany, Oregon, has been completed. Methanol analysis (EPA Method 8015C) was performed by Columbia Analytical Services, Inc. (part of the ALS Group), Kelso, Washington. All sample analyses were evaluated following EPA's Stage 2B Data Validation Manual Process (S2BVM).

The samples were numbered:
13101116 13101117 13101118 13101123

Data Qualifications:

1. **Sample Holding Times: Satisfactory.**

The samples were maintained within the QC limits of < 6°C but were measured at 11°C upon receipt at the laboratory; for this reason, sample results are qualified as estimated quantities with a low bias (JL or UJL). The samples were collected on March 12, 2014, were received at the laboratory within 48 hours of collection for processing, and were analyzed by March 18, 2014, therefore meeting QC criteria of less than 14 days between collection and analysis for liquid samples.

2. **Initial Calibration: Acceptable.**

All average Relative Response Factors (RRFs) were within the QC limits. All Relative Standard Deviations (RSDs) were within the QC limits. The second source ICV results were within QC limits.

3. **Continuing Calibration: Acceptable.**

All RRFs were within the QC limits. All % differences were within the QC limits.

4. **Blanks: Acceptable.**

A method blank was analyzed for each 20 sample batch per matrix. There were no detections in any method blank.

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5. **Blank Spike (BS)/BS Duplicate (BSD) Analysis: Acceptable.**

BS and BSD analyses were performed per SDG or per matrix per concentration level, whichever was more frequent. All recoveries were within QC limits.

6. **Duplicate Analysis: Acceptable.**

Laboratory spike duplicate analysis was performed per SDG or per matrix per concentration level, whichever was more frequent. All duplicate results were within QC limits.

7. **Internal Standards: Acceptable.**

All internal standards were within $\pm$ 30 seconds of the continuing calibration internal standard retention times. All area counts were within 50 % to 200 % of the continuing calibration area counts.

8. **Precision and Bias Determination: Not Performed.**

Samples necessary to determine precision and bias were not provided to the laboratory. All results were flagged "PND" (Precision Not Determined) and "RND" (Recovery Not Determined), although the flags do not appear on the data sheets.

9. **Performance Evaluation Sample Analysis: Not Provided.**

Performance evaluation samples were not provided to the laboratory.

10. **Overall Assessment of Data for Use**

The reviewer used professional judgment to apply a single bias qualifier when more than one bias qualifier was applicable to an individual estimated sample result.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004), the analytical method, and, when applicable, the Office of Emergency and Remedial Response Publication "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review". Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

JH - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a high bias.

JL - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a low bias.

JK - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias.

JQ – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with an unknown direction of bias and falls between the MDL and the Minimum (or Practical) Quantitation Limit (MQL, PQL).

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification"..

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Methanol

Sample Name:	13101116	**Units:**	ug/mL
Lab Code:	K1402510-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	**730000**	~~P~~ JL	500	230	1000	03/18/14	03/18/14	KWG1402204	

Comments: MW 327-H

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Methanol

Sample Name:	13101117	**Units:**	ug/mL
Lab Code:	K1402510-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	**240000**	~~D~~ JL	500	230	1000	03/18/14	03/18/14	KWG1402204	

Comments: MW 3-27-14

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Methanol

Sample Name:	13101118	**Units:**	ug/mL
Lab Code:	K1402510-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	**760000**	D	500	230	1000	03/18/14	03/18/14	KWG1402204	

MW JL

MW 3-27-14

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Ecology And Environment, Incorporated	**Service Request:**	K1402510
Project:	START IV BOA 2014/10ZZ	**Date Collected:**	03/12/2014
Sample Matrix:	Water	**Date Received:**	03/13/2014

Methanol

Sample Name:	13101123	**Units:**	ug/mL
Lab Code:	K1402510-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8015C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methanol	~~ND~~	U JML	0.50	0.23	1	03/18/14	03/18/14	KWG1402204	

Comments: JMW 3-27-14

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ATTACHMENT D – TestAmerica Analytical Report for Wastexpress Environmental

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-16067-1
Client Project/Site: ATI Ferry

For:
International Resource Management
dba Wastexpress Environmental
PO BOX 31100
Portland, Oregon 97231

Attn: Duane Neukom

Authorized for release by:
12/20/2013 2:00:49 PM
Erica Fot, Project Management Assistant II
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Designee for

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LINKS

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

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

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

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Sample Summary

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-16067-1	tote A	Waste	12/12/13 10:55	12/13/13 12:06
250-16067-2	tote B	Waste	12/12/13 10:58	12/13/13 12:06
250-16067-3	tote C	Waste	12/12/13 11:00	12/13/13 12:06
250-16067-4	tote D	Waste	12/12/13 11:02	12/13/13 12:06
250-16067-5	tote E	Waste	12/12/13 11:04	12/13/13 12:06
250-16067-6	tote F	Waste	12/12/13 11:06	12/13/13 12:06
250-16067-7	tote G	Waste	12/12/13 11:08	12/13/13 12:06
250-16067-8	tote H	Waste	12/12/13 11:10	12/13/13 12:06
250-16067-9	tote I	Waste	12/12/13 11:11	12/13/13 12:06
250-16067-10	tote J	Waste	12/12/13 11:13	12/13/13 12:06
250-16067-11	tote K	Waste	12/12/13 11:15	12/13/13 12:06
250-16067-12	tote L	Waste	12/12/13 11:17	12/13/13 12:06
250-16067-13	tote M	Waste	12/12/13 11:19	12/13/13 12:06
250-16067-14	tote N	Waste	12/12/13 11:21	12/13/13 12:06
250-16067-15	tote O	Waste	12/12/13 11:24	12/13/13 12:06
250-16067-16	tote P	Waste	12/12/13 11:25	12/13/13 12:06
250-16067-17	tote Q	Waste	12/12/13 11:26	12/13/13 12:06
250-16067-18	tote R	Waste	12/12/13 11:48	12/13/13 12:06
250-16067-19	B,C,D	Waste	12/12/13 11:39	12/13/13 12:06
250-16067-20	H, L, M	Waste	12/12/13 11:37	12/13/13 12:06
250-16067-21	tote F,N	Waste	12/12/13 11:45	12/13/13 12:06
250-16067-22	tote G, J, K, P	Waste	12/12/13 11:42	12/13/13 12:06
250-16067-23	tote A, E, I, O	Waste	12/12/13 11:33	12/13/13 12:06

Job ID: 250-16067-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-16067-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2013 12:06 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 12.4º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 23029 recovered outside control limits for the following analytes: 2-hexanone and 4-methyl, 2-pentanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 123-trichlorobenzene associated with batch 23029 were outside control limits: (250-16147-1 MS), (250-16147-1 MSD). The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Metals
Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 250-22973 for Ag,Ba and Pb were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (250-16067-23 MSD)

Method 6020: The following sample(s) was diluted due to the nature of the sample matrix: H, L, M (250-16067-20), tote A, E, I, O (250-16067-23), tote F,N (250-16067-21). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: tote Q
Date Collected: 12/12/13 11:26
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-17
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Benzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Bromobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Bromochloromethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Bromodichloromethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Bromoform	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Bromomethane	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
n-Butylbenzene	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
sec-Butylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
tert-Butylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Carbon disulfide	ND		2000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Carbon tetrachloride	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Chlorobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Chloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Chloroform	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Chloromethane	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
2-Chlorotoluene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
4-Chlorotoluene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2-Dibromo-3-Chloropropane	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Dibromochloromethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2-Dibromoethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Dibromomethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2-Dichloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Dichlorodifluoromethane	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1-Dichloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1-Dichloroethene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2-Dichloropropane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,3-Dichloropropane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
2,2-Dichloropropane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1-Dichloropropene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Ethylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Hexachlorobutadiene	ND		800		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
2-Hexanone	ND		2000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Isopropylbenzene	ND		400		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
p-Isopropyltoluene	ND		400		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Methylene Chloride	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Naphthalene	ND		400		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
N-Propylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Styrene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1

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

Client Sample ID: tote Q — **Lab Sample ID: 250-16067-17**
Date Collected: 12/12/13 11:26 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Tetrachloroethene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Toluene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2,3-Trichlorobenzene	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Trichloroethene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Trichlorofluoromethane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
Vinyl chloride	ND		1000		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
m,p-Xylene	ND		400		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
o-Xylene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/16/13 17:13	12/17/13 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*	*12/16/13 17:13*	*12/17/13 12:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 125*	*12/16/13 17:13*	*12/17/13 12:34*	*1*
Dibromofluoromethane (Surr)	*89*		*75 - 125*	*12/16/13 17:13*	*12/17/13 12:34*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*	*12/16/13 17:13*	*12/17/13 12:34*	*1*

Client Sample ID: tote R — **Lab Sample ID: 250-16067-18**
Date Collected: 12/12/13 11:48 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4900		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Benzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Bromobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Bromochloromethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Bromodichloromethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Bromoform	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Bromomethane	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
2-Butanone (MEK)	ND		1900		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
n-Butylbenzene	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
sec-Butylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
tert-Butylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Carbon disulfide	ND		1900		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Carbon tetrachloride	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Chlorobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Chloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Chloroform	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Chloromethane	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
2-Chlorotoluene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
4-Chlorotoluene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2-Dibromo-3-Chloropropane	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Dibromochloromethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2-Dibromoethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Dibromomethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: tote R
Date Collected: 12/12/13 11:48
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-18
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,3-Dichlorobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,4-Dichlorobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Dichlorodifluoromethane	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1-Dichloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1-Dichloroethene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
cis-1,2-Dichloroethene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
trans-1,2-Dichloroethene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2-Dichloropropane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,3-Dichloropropane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
2,2-Dichloropropane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1-Dichloropropene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
cis-1,3-Dichloropropene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
trans-1,3-Dichloropropene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Ethylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Hexachlorobutadiene	ND		780		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
2-Hexanone	ND		1900		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Isopropylbenzene	ND		390		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
p-Isopropyltoluene	ND		390		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Methyl tert-butyl ether	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Methylene Chloride	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Naphthalene	ND		390		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
N-Propylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Styrene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1,1,2-Tetrachloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1,2,2-Tetrachloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Tetrachloroethene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Toluene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2,3-Trichlorobenzene	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2,4-Trichlorobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1,1-Trichloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,1,2-Trichloroethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Trichloroethene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Trichlorofluoromethane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2,3-Trichloropropane	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2,4-Trimethylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,3,5-Trimethylbenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
Vinyl chloride	ND		970		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
m,p-Xylene	ND		390		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
o-Xylene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1
1,2-Dichlorobenzene	ND		190		ug/Kg		12/16/13 17:13	12/17/13 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*	*12/16/13 17:13*	*12/17/13 13:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*	*12/16/13 17:13*	*12/17/13 13:01*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 125*	*12/16/13 17:13*	*12/17/13 13:01*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*	*12/16/13 17:13*	*12/17/13 13:01*	*1*

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: B,C,D
Date Collected: 12/12/13 11:39
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-19
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Benzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Bromobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Bromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Bromodichloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Bromoform	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Bromomethane	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
n-Butylbenzene	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
sec-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
tert-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Carbon disulfide	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Carbon tetrachloride	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Chlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Chloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Chloroform	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Chloromethane	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
2-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
4-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2-Dibromo-3-Chloropropane	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Dibromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2-Dibromoethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Dibromomethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Dichlorodifluoromethane	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,3-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
2,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Ethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Hexachlorobutadiene	ND		800		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
2-Hexanone	ND	*	2000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Isopropylbenzene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
p-Isopropyltoluene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
4-Methyl-2-pentanone (MIBK)	ND	*	1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Methylene Chloride	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Naphthalene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
N-Propylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Styrene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1

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

Client Sample ID: B,C,D — **Lab Sample ID: 250-16067-19**
Date Collected: 12/12/13 11:39 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Tetrachloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Toluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2,3-Trichlorobenzene	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Trichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Trichlorofluoromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
Vinyl chloride	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
m,p-Xylene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
o-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:59*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:59*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:59*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:59*	*1*

Client Sample ID: H, L, M — **Lab Sample ID: 250-16067-20**
Date Collected: 12/12/13 11:37 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5400**		5000		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Benzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Bromobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Bromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Bromodichloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Bromoform	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Bromomethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
n-Butylbenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
sec-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
tert-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Carbon disulfide	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Carbon tetrachloride	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Chlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Chloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Chloroform	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Chloromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
2-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
4-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2-Dibromo-3-Chloropropane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Dibromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2-Dibromoethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Dibromomethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: H, L, M
Date Collected: 12/12/13 11:37
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-20
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Dichlorodifluoromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,3-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
2,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Ethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Hexachlorobutadiene	ND		790		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
2-Hexanone	ND	*	2000		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Isopropylbenzene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
p-Isopropyltoluene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
4-Methyl-2-pentanone (MIBK)	ND	*	990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Methylene Chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Naphthalene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
N-Propylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Styrene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Tetrachloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Toluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2,3-Trichlorobenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Trichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Trichlorofluoromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
Vinyl chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
m,p-Xylene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
o-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:23*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:23*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:23*	*1*

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: tote F,N
Date Collected: 12/12/13 11:45
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-21
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4900		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Benzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Bromobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Bromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Bromodichloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Bromoform	**1700**		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Bromomethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
n-Butylbenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
sec-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
tert-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Carbon disulfide	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Carbon tetrachloride	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Chlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Chloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Chloroform	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Chloromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
2-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
4-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2-Dibromo-3-Chloropropane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Dibromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2-Dibromoethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Dibromomethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Dichlorodifluoromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,3-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
2,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Ethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Hexachlorobutadiene	ND		790		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
2-Hexanone	ND	*	2000		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Isopropylbenzene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
p-Isopropyltoluene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
4-Methyl-2-pentanone (MIBK)	ND	*	990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Methylene Chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Naphthalene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
N-Propylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Styrene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1

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

Client Sample ID: tote F,N — **Lab Sample ID: 250-16067-21**
Date Collected: 12/12/13 11:45 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Tetrachloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Toluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2,3-Trichlorobenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Trichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Trichlorofluoromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
Vinyl chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
m,p-Xylene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
o-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:47*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:47*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:47*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*	*12/19/13 10:41*	*12/19/13 16:47*	*1*

Client Sample ID: tote G, J, K, P — **Lab Sample ID: 250-16067-22**
Date Collected: 12/12/13 11:42 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Benzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Bromobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Bromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Bromodichloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Bromoform	**1200**		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Bromomethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
n-Butylbenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
sec-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
tert-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Carbon disulfide	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Carbon tetrachloride	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Chlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Chloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Chloroform	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Chloromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
2-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
4-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2-Dibromo-3-Chloropropane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Dibromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2-Dibromoethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Dibromomethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1

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

Client Sample ID: tote G, J, K, P
Date Collected: 12/12/13 11:42
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-22
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Dichlorodifluoromethane	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,3-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
2,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Ethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Hexachlorobutadiene	ND		790		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
2-Hexanone	ND	*	2000		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Isopropylbenzene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
p-Isopropyltoluene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
4-Methyl-2-pentanone (MIBK)	ND	*	990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Methylene Chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Naphthalene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
N-Propylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Styrene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Tetrachloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Toluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2,3-Trichlorobenzene	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Trichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Trichlorofluoromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
Vinyl chloride	ND		990		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
m,p-Xylene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
o-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:11*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:11*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:11*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:11*	*1*

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

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

Client Sample ID: tote A, E, I, O
Date Collected: 12/12/13 11:33
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-23
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4900		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Benzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Bromobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Bromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Bromodichloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Bromoform	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Bromomethane	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
2-Butanone (MEK)	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
n-Butylbenzene	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
sec-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
tert-Butylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Carbon disulfide	ND		2000		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Carbon tetrachloride	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Chlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Chloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Chloroform	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Chloromethane	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
2-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
4-Chlorotoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2-Dibromo-3-Chloropropane	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Dibromochloromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2-Dibromoethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Dibromomethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,3-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,4-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Dichlorodifluoromethane	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1-Dichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
cis-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
trans-1,2-Dichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,3-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
2,2-Dichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
cis-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
trans-1,3-Dichloropropene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Ethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Hexachlorobutadiene	ND		790		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
2-Hexanone	ND	*	2000		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Isopropylbenzene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
p-Isopropyltoluene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
4-Methyl-2-pentanone (MIBK)	ND	*	980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Methyl tert-butyl ether	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Methylene Chloride	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Naphthalene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
N-Propylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Styrene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1,1,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1

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

Client Sample ID: tote A, E, I, O
Date Collected: 12/12/13 11:33
Date Received: 12/13/13 12:06

Lab Sample ID: 250-16067-23
Matrix: Waste

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Tetrachloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Toluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2,3-Trichlorobenzene	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2,4-Trichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1,1-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,1,2-Trichloroethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Trichloroethene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Trichlorofluoromethane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2,3-Trichloropropane	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2,4-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,3,5-Trimethylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
Vinyl chloride	ND		980		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
m,p-Xylene	ND		390		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
o-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1
1,2-Dichlorobenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:35*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:35*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:35*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*	*12/19/13 10:41*	*12/19/13 17:35*	*1*

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: tote Q — **Lab Sample ID: 250-16067-17**
Date Collected: 12/12/13 11:26 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Barium	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Cadmium	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Chromium	ND		0.99		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Lead	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Selenium	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10
Silver	ND		0.50		mg/Kg		12/17/13 21:56	12/18/13 10:22	10

Client Sample ID: tote R — **Lab Sample ID: 250-16067-18**
Date Collected: 12/12/13 11:48 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Barium	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Cadmium	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Chromium	ND		0.98		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Lead	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Selenium	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10
Silver	ND		0.49		mg/Kg		12/17/13 21:56	12/18/13 10:25	10

Client Sample ID: B,C,D — **Lab Sample ID: 250-16067-19**
Date Collected: 12/12/13 11:39 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Barium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Cadmium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Chromium	ND		0.98		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Lead	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Selenium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10
Silver	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:15	10

Client Sample ID: H, L, M — **Lab Sample ID: 250-16067-20**
Date Collected: 12/12/13 11:37 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.99		mg/Kg		12/18/13 21:55	12/19/13 13:24	20
Barium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:18	10
Cadmium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:18	10
Chromium	ND		2.0		mg/Kg		12/18/13 21:55	12/19/13 13:24	20
Lead	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:18	10
Selenium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:18	10
Silver	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:18	10

Client Sample ID: tote F,N — **Lab Sample ID: 250-16067-21**
Date Collected: 12/12/13 11:45 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.98		mg/Kg		12/18/13 21:55	12/19/13 13:27	20
Barium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:21	10

Method: 6020 - Metals (ICP/MS) (Continued)

Client Sample ID: tote F,N — **Lab Sample ID: 250-16067-21**
Date Collected: 12/12/13 11:45 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:21	10
Chromium	ND		2.0		mg/Kg		12/18/13 21:55	12/19/13 13:27	20
Lead	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:21	10
Selenium	ND		0.98		mg/Kg		12/18/13 21:55	12/19/13 13:27	20
Silver	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:21	10

Client Sample ID: tote G, J, K, P — **Lab Sample ID: 250-16067-22**
Date Collected: 12/12/13 11:42 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Barium	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Cadmium	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Chromium	ND		0.97		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Lead	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Selenium	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10
Silver	ND		0.48		mg/Kg		12/18/13 21:55	12/19/13 12:25	10

Client Sample ID: tote A, E, I, O — **Lab Sample ID: 250-16067-23**
Date Collected: 12/12/13 11:33 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0		mg/Kg		12/18/13 21:55	12/19/13 13:38	20
Barium	ND		0.50		mg/Kg		12/18/13 21:55	12/19/13 12:32	10
Cadmium	ND		0.50		mg/Kg		12/18/13 21:55	12/19/13 12:32	10
Chromium	ND		2.0		mg/Kg		12/18/13 21:55	12/19/13 13:38	20
Lead	ND		0.50		mg/Kg		12/18/13 21:55	12/19/13 12:32	10
Selenium	ND		1.0		mg/Kg		12/18/13 21:55	12/19/13 13:38	20
Silver	ND		0.50		mg/Kg		12/18/13 21:55	12/19/13 12:32	10

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: tote Q — **Lab Sample ID: 250-16067-17**
Date Collected: 12/12/13 11:26 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.078		mg/Kg		12/18/13 15:31	12/18/13 20:05	1

Client Sample ID: tote R — **Lab Sample ID: 250-16067-18**
Date Collected: 12/12/13 11:48 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.074		mg/Kg		12/18/13 15:31	12/18/13 20:07	1

Client Sample ID: B,C,D — **Lab Sample ID: 250-16067-19**
Date Collected: 12/12/13 11:39 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.076		mg/Kg		12/18/13 15:31	12/18/13 20:10	1

Client Sample ID: H, L, M — **Lab Sample ID: 250-16067-20**
Date Collected: 12/12/13 11:37 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/Kg		12/18/13 15:31	12/18/13 20:12	1

Client Sample ID: tote F,N — **Lab Sample ID: 250-16067-21**
Date Collected: 12/12/13 11:45 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.087		mg/Kg		12/18/13 15:31	12/18/13 20:15	1

Client Sample ID: tote G, J, K, P — **Lab Sample ID: 250-16067-22**
Date Collected: 12/12/13 11:42 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.078		mg/Kg		12/18/13 15:31	12/18/13 20:17	1

Client Sample ID: tote A, E, I, O — **Lab Sample ID: 250-16067-23**
Date Collected: 12/12/13 11:33 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.091		mg/Kg		12/18/13 15:31	12/18/13 20:20	1

Client Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

General Chemistry

Client Sample ID: tote A — **Lab Sample ID: 250-16067-1**
Date Collected: 12/12/13 10:55 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	114				Degrees F			12/17/13 15:00	1

Client Sample ID: tote B — **Lab Sample ID: 250-16067-2**
Date Collected: 12/12/13 10:58 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	113				Degrees F			12/17/13 15:00	1

Client Sample ID: tote C — **Lab Sample ID: 250-16067-3**
Date Collected: 12/12/13 11:00 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	86				Degrees F			12/17/13 15:00	1

Client Sample ID: tote D — **Lab Sample ID: 250-16067-4**
Date Collected: 12/12/13 11:02 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	119				Degrees F			12/17/13 15:00	1

Client Sample ID: tote E — **Lab Sample ID: 250-16067-5**
Date Collected: 12/12/13 11:04 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	125				Degrees F			12/17/13 15:00	1

Client Sample ID: tote F — **Lab Sample ID: 250-16067-6**
Date Collected: 12/12/13 11:06 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	91				Degrees F			12/17/13 15:00	1

Client Sample ID: tote G — **Lab Sample ID: 250-16067-7**
Date Collected: 12/12/13 11:08 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	115				Degrees F			12/17/13 15:00	1

Client Sample ID: tote H — **Lab Sample ID: 250-16067-8**
Date Collected: 12/12/13 11:10 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	119				Degrees F			12/17/13 15:00	1

Client Sample ID: tote I — **Lab Sample ID: 250-16067-9**
Date Collected: 12/12/13 11:11 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	88				Degrees F			12/18/13 14:44	1

General Chemistry

Client Sample ID: tote J — **Lab Sample ID: 250-16067-10**
Date Collected: 12/12/13 11:13 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	84				Degrees F			12/18/13 14:44	1

Client Sample ID: tote K — **Lab Sample ID: 250-16067-11**
Date Collected: 12/12/13 11:15 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	104				Degrees F			12/18/13 14:44	1

Client Sample ID: tote L — **Lab Sample ID: 250-16067-12**
Date Collected: 12/12/13 11:17 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	85				Degrees F			12/18/13 14:44	1

Client Sample ID: tote M — **Lab Sample ID: 250-16067-13**
Date Collected: 12/12/13 11:19 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	119				Degrees F			12/18/13 14:44	1

Client Sample ID: tote N — **Lab Sample ID: 250-16067-14**
Date Collected: 12/12/13 11:21 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	113				Degrees F			12/18/13 14:44	1

Client Sample ID: tote O — **Lab Sample ID: 250-16067-15**
Date Collected: 12/12/13 11:24 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	109				Degrees F			12/18/13 14:44	1

Client Sample ID: tote P — **Lab Sample ID: 250-16067-16**
Date Collected: 12/12/13 11:25 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	93				Degrees F			12/18/13 14:44	1

Client Sample ID: tote Q — **Lab Sample ID: 250-16067-17**
Date Collected: 12/12/13 11:26 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	94				Degrees F			12/18/13 14:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg		12/19/13 12:47	12/19/13 17:12	1

Client Sample ID: tote R — **Lab Sample ID: 250-16067-18**
Date Collected: 12/12/13 11:48 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	109				Degrees F			12/18/13 14:44	1

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg		12/19/13 12:47	12/19/13 17:13	1

Client Sample ID: B,C,D — **Lab Sample ID: 250-16067-19**
Date Collected: 12/12/13 11:39 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.3		mg/Kg		12/19/13 12:47	12/19/13 17:14	1

Client Sample ID: H, L, M — **Lab Sample ID: 250-16067-20**
Date Collected: 12/12/13 11:37 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg		12/19/13 12:47	12/19/13 17:15	1

Client Sample ID: tote F,N — **Lab Sample ID: 250-16067-21**
Date Collected: 12/12/13 11:45 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg		12/19/13 12:47	12/19/13 17:16	1

Client Sample ID: tote G, J, K, P — **Lab Sample ID: 250-16067-22**
Date Collected: 12/12/13 11:42 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1		mg/Kg		12/19/13 12:47	12/19/13 17:22	1

Client Sample ID: tote A, E, I, O — **Lab Sample ID: 250-16067-23**
Date Collected: 12/12/13 11:33 — **Matrix: Waste**
Date Received: 12/13/13 12:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.3		mg/Kg		12/19/13 12:47	12/19/13 17:23	1

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

Lab Sample ID: MB 250-22893/1-A
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Benzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Bromobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Bromochloromethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Bromodichloromethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Bromoform	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Bromomethane	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
2-Butanone (MEK)	ND		970		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
n-Butylbenzene	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
sec-Butylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
tert-Butylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Carbon disulfide	ND		970		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Carbon tetrachloride	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Chlorobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Chloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Chloroform	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Chloromethane	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
2-Chlorotoluene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
4-Chlorotoluene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2-Dibromo-3-Chloropropane	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Dibromochloromethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2-Dibromoethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Dibromomethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2-Dichloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,3-Dichlorobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,4-Dichlorobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Dichlorodifluoromethane	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1-Dichloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1-Dichloroethene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
cis-1,2-Dichloroethene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
trans-1,2-Dichloroethene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2-Dichloropropane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,3-Dichloropropane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
2,2-Dichloropropane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1-Dichloropropene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
cis-1,3-Dichloropropene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
trans-1,3-Dichloropropene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Ethylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Hexachlorobutadiene	ND		390		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
2-Hexanone	ND		970		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Isopropylbenzene	ND		190		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
p-Isopropyltoluene	ND		190		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Methyl tert-butyl ether	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Methylene Chloride	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Naphthalene	ND		190		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
N-Propylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Styrene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1

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

Lab Sample ID: MB 250-22893/1-A
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1,2,2-Tetrachloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Tetrachloroethene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Toluene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2,3-Trichlorobenzene	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2,4-Trichlorobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1,1-Trichloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,1,2-Trichloroethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Trichloroethene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Trichlorofluoromethane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2,3-Trichloropropane	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2,4-Trimethylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,3,5-Trimethylbenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
Vinyl chloride	ND		490		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
m,p-Xylene	ND		190		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
o-Xylene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1
1,2-Dichlorobenzene	ND		97		ug/Kg		12/16/13 10:00	12/16/13 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 125*	*12/16/13 10:00*	*12/16/13 12:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*	*12/16/13 10:00*	*12/16/13 12:24*	*1*
Dibromofluoromethane (Surr)	*86*		*75 - 125*	*12/16/13 10:00*	*12/16/13 12:24*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*	*12/16/13 10:00*	*12/16/13 12:24*	*1*

Lab Sample ID: LCS 250-22893/2-A
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9800	7210		ug/Kg		74	65 - 150
Benzene	1960	1940		ug/Kg		99	80 - 120
Bromobenzene	1960	1880		ug/Kg		96	80 - 120
Bromochloromethane	1960	1770		ug/Kg		90	80 - 120
Bromodichloromethane	1960	1890		ug/Kg		97	80 - 140
Bromoform	1960	1470		ug/Kg		75	75 - 150
Bromomethane	1960	1680		ug/Kg		86	65 - 130
2-Butanone (MEK)	9800	7780		ug/Kg		79	70 - 125
n-Butylbenzene	1960	2310		ug/Kg		118	80 - 150
sec-Butylbenzene	1960	2020		ug/Kg		103	80 - 135
tert-Butylbenzene	1960	1980		ug/Kg		101	80 - 130
Carbon disulfide	3920	3660		ug/Kg		93	65 - 140
Carbon tetrachloride	1960	1810		ug/Kg		92	70 - 130
Chlorobenzene	1960	1970		ug/Kg		100	80 - 125
Chloroethane	1960	1780		ug/Kg		91	75 - 125
Chloroform	1960	1930		ug/Kg		98	80 - 120
Chloromethane	1960	2170		ug/Kg		111	40 - 150
2-Chlorotoluene	1960	1940		ug/Kg		99	80 - 120
4-Chlorotoluene	1960	1990		ug/Kg		101	80 - 125

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

Lab Sample ID: LCS 250-22893/2-A
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	1960	1530		ug/Kg		78	60 - 130
Dibromochloromethane	1960	1700		ug/Kg		87	75 - 125
1,2-Dibromoethane	1960	1710		ug/Kg		87	80 - 125
Dibromomethane	1960	1770		ug/Kg		90	80 - 120
1,2-Dichloroethane	1960	1890		ug/Kg		96	80 - 120
1,3-Dichlorobenzene	1960	1920		ug/Kg		98	80 - 125
1,4-Dichlorobenzene	1960	1890		ug/Kg		96	75 - 120
Dichlorodifluoromethane	1960	1740		ug/Kg		89	75 - 120
1,1-Dichloroethane	1960	1840		ug/Kg		94	80 - 120
1,1-Dichloroethene	1960	1750		ug/Kg		89	75 - 125
cis-1,2-Dichloroethene	1960	1770		ug/Kg		90	75 - 125
trans-1,2-Dichloroethene	1960	1760		ug/Kg		90	75 - 125
1,2-Dichloropropane	1960	1960		ug/Kg		100	80 - 125
1,3-Dichloropropane	1960	1860		ug/Kg		95	75 - 130
2,2-Dichloropropane	1960	1930		ug/Kg		98	70 - 130
1,1-Dichloropropene	1960	1950		ug/Kg		100	80 - 125
cis-1,3-Dichloropropene	1960	1970		ug/Kg		101	80 - 125
trans-1,3-Dichloropropene	1960	1910		ug/Kg		98	65 - 145
Ethylbenzene	1960	1890		ug/Kg		96	80 - 125
Hexachlorobutadiene	1960	2110		ug/Kg		108	80 - 150
2-Hexanone	9800	7840		ug/Kg		80	55 - 120
Isopropylbenzene	1960	1920		ug/Kg		98	80 - 130
p-Isopropyltoluene	1960	2030		ug/Kg		103	80 - 120
4-Methyl-2-pentanone (MIBK)	9800	7970		ug/Kg		81	50 - 120
Methyl tert-butyl ether	1960	1690		ug/Kg		86	75 - 125
Methylene Chloride	1960	1800		ug/Kg		92	75 - 125
Naphthalene	1960	1730		ug/Kg		88	80 - 130
N-Propylbenzene	1960	1950		ug/Kg		100	80 - 120
Styrene	1960	1870		ug/Kg		96	80 - 125
1,1,1,2-Tetrachloroethane	1960	1810		ug/Kg		92	80 - 130
1,1,2,2-Tetrachloroethane	1960	1660		ug/Kg		85	70 - 135
Tetrachloroethene	1960	1890		ug/Kg		97	80 - 125
Toluene	1960	1990		ug/Kg		102	80 - 120
1,2,3-Trichlorobenzene	1960	1980		ug/Kg		101	80 - 145
1,2,4-Trichlorobenzene	1960	2130		ug/Kg		109	85 - 150
1,1,1-Trichloroethane	1960	1890		ug/Kg		97	80 - 125
1,1,2-Trichloroethane	1960	1750		ug/Kg		89	80 - 125
Trichloroethene	1960	1870		ug/Kg		96	80 - 125
Trichlorofluoromethane	1960	1910		ug/Kg		97	55 - 150
1,2,3-Trichloropropane	1960	1650		ug/Kg		84	65 - 125
1,2,4-Trimethylbenzene	1960	2050		ug/Kg		105	80 - 135
1,3,5-Trimethylbenzene	1960	2020		ug/Kg		103	80 - 135
Vinyl chloride	1960	1590		ug/Kg		81	10 - 140
m,p-Xylene	3920	3790		ug/Kg		97	80 - 120
o-Xylene	1960	1900		ug/Kg		97	80 - 125
1,2-Dichlorobenzene	1960	1910		ug/Kg		97	80 - 120

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

Lab Sample ID: LCS 250-22893/2-A
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22893

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*
Dibromofluoromethane (Surr)	*91*		*75 - 125*
Toluene-d8 (Surr)	*100*		*75 - 125*

Lab Sample ID: 250-16062-A-1-E MS
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		48300	34800		ug/Kg		72	60 - 145
Benzene	ND		9660	9590		ug/Kg		99	80 - 125
Bromobenzene	ND		9660	9070		ug/Kg		94	70 - 130
Bromochloromethane	ND		9660	8240		ug/Kg		85	80 - 130
Bromodichloromethane	ND		9660	9080		ug/Kg		94	80 - 135
Bromoform	ND		9660	7240		ug/Kg		75	70 - 130
Bromomethane	ND		9660	7480		ug/Kg		77	70 - 130
2-Butanone (MEK)	ND		48300	39000		ug/Kg		81	70 - 145
n-Butylbenzene	ND		9660	10800		ug/Kg		112	70 - 140
sec-Butylbenzene	ND		9660	9290		ug/Kg		96	70 - 135
tert-Butylbenzene	ND		9660	9230		ug/Kg		96	80 - 135
Carbon disulfide	ND		19300	17600		ug/Kg		91	70 - 130
Carbon tetrachloride	ND		9660	8760		ug/Kg		91	70 - 125
Chlorobenzene	ND		9660	9450		ug/Kg		98	70 - 130
Chloroethane	ND		9660	9320		ug/Kg		96	70 - 130
Chloroform	ND		9660	9330		ug/Kg		96	80 - 125
Chloromethane	ND		9660	10300		ug/Kg		106	40 - 150
2-Chlorotoluene	ND		9660	9500		ug/Kg		98	80 - 125
4-Chlorotoluene	ND		9660	9570		ug/Kg		99	70 - 130
1,2-Dibromo-3-Chloropropane	ND		9660	7640		ug/Kg		79	60 - 145
Dibromochloromethane	ND		9660	8370		ug/Kg		87	80 - 130
1,2-Dibromoethane	ND		9660	8410		ug/Kg		87	80 - 130
Dibromomethane	ND		9660	8520		ug/Kg		88	75 - 125
1,2-Dichloroethane	ND		9660	9110		ug/Kg		94	75 - 120
1,3-Dichlorobenzene	ND		9660	9270		ug/Kg		96	80 - 130
1,4-Dichlorobenzene	ND		9660	9130		ug/Kg		94	80 - 120
Dichlorodifluoromethane	ND		9660	8150		ug/Kg		84	65 - 135
1,1-Dichloroethane	ND		9660	8680		ug/Kg		90	80 - 125
1,1-Dichloroethene	ND		9660	8500		ug/Kg		88	70 - 130
cis-1,2-Dichloroethene	ND		9660	8580		ug/Kg		89	75 - 120
trans-1,2-Dichloroethene	ND		9660	8550		ug/Kg		89	70 - 130
1,2-Dichloropropane	ND		9660	9680		ug/Kg		100	80 - 130
1,3-Dichloropropane	ND		9660	9260		ug/Kg		96	75 - 130
2,2-Dichloropropane	ND		9660	9350		ug/Kg		97	70 - 130
1,1-Dichloropropene	ND		9660	9810		ug/Kg		102	80 - 125
cis-1,3-Dichloropropene	ND		9660	9900		ug/Kg		102	80 - 130
trans-1,3-Dichloropropene	ND		9660	9370		ug/Kg		97	70 - 145
Ethylbenzene	ND		9660	9200		ug/Kg		95	80 - 125

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

Lab Sample ID: 250-16062-A-1-E MS
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		9660	9260		ug/Kg		95	45 - 150
2-Hexanone	ND		48300	39900		ug/Kg		83	65 - 150
Isopropylbenzene	ND		9660	9240		ug/Kg		96	80 - 130
p-Isopropyltoluene	ND		9660	9520		ug/Kg		98	70 - 140
4-Methyl-2-pentanone (MIBK)	ND		48300	40700		ug/Kg		84	60 - 150
Methyl tert-butyl ether	ND		9660	8280		ug/Kg		86	70 - 130
Methylene Chloride	ND		9660	8550		ug/Kg		88	70 - 120
Naphthalene	ND		9660	9070		ug/Kg		94	70 - 130
N-Propylbenzene	ND		9660	9380		ug/Kg		97	70 - 130
Styrene	ND		9660	9200		ug/Kg		95	85 - 120
1,1,1,2-Tetrachloroethane	ND		9660	8930		ug/Kg		92	80 - 130
1,1,2,2-Tetrachloroethane	ND		9660	8090		ug/Kg		84	70 - 130
Tetrachloroethene	ND		9660	9300		ug/Kg		96	75 - 140
Toluene	ND		9660	9760		ug/Kg		101	70 - 130
1,2,3-Trichlorobenzene	ND		9660	9640		ug/Kg		100	70 - 130
1,2,4-Trichlorobenzene	ND		9660	10400		ug/Kg		108	70 - 150
1,1,1-Trichloroethane	ND		9660	9130		ug/Kg		94	80 - 125
1,1,2-Trichloroethane	ND		9660	8880		ug/Kg		92	80 - 130
Trichloroethene	ND		9660	9290		ug/Kg		96	80 - 125
Trichlorofluoromethane	ND		9660	9360		ug/Kg		97	70 - 130
1,2,3-Trichloropropane	ND		9660	8190		ug/Kg		85	70 - 130
1,2,4-Trimethylbenzene	ND		9660	10200		ug/Kg		105	70 - 130
1,3,5-Trimethylbenzene	ND		9660	9980		ug/Kg		103	75 - 140
Vinyl chloride	ND		9660	8480		ug/Kg		88	10 - 140
m,p-Xylene	ND		19300	18400		ug/Kg		95	75 - 135
o-Xylene	ND		9660	9340		ug/Kg		97	70 - 130
1,2-Dichlorobenzene	ND		9660	9360		ug/Kg		97	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 125*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*
Dibromofluoromethane (Surr)	*91*		*75 - 125*
Toluene-d8 (Surr)	*99*		*75 - 125*

Lab Sample ID: 250-16062-A-1-F MSD
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		49800	37800		ug/Kg		76	60 - 145	8	25
Benzene	ND		9960	9860		ug/Kg		99	80 - 125	3	25
Bromobenzene	ND		9960	9260		ug/Kg		93	70 - 130	2	25
Bromochloromethane	ND		9960	8700		ug/Kg		87	80 - 130	5	25
Bromodichloromethane	ND		9960	9420		ug/Kg		95	80 - 135	4	25
Bromoform	ND		9960	7450		ug/Kg		75	70 - 130	3	25
Bromomethane	ND		9960	8200		ug/Kg		82	70 - 130	9	25
2-Butanone (MEK)	ND		49800	40800		ug/Kg		82	70 - 145	4	25
n-Butylbenzene	ND		9960	11400		ug/Kg		115	70 - 140	5	25

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

Lab Sample ID: 250-16062-A-1-F MSD
Matrix: Waste
Analysis Batch: 22911

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		9960	9920		ug/Kg		100	70 - 135	7	25
tert-Butylbenzene	ND		9960	9750		ug/Kg		98	80 - 135	6	25
Carbon disulfide	ND		19900	18700		ug/Kg		94	70 - 130	6	25
Carbon tetrachloride	ND		9960	9200		ug/Kg		92	70 - 125	5	25
Chlorobenzene	ND		9960	9930		ug/Kg		100	70 - 130	5	25
Chloroethane	ND		9960	9730		ug/Kg		98	70 - 130	4	25
Chloroform	ND		9960	9710		ug/Kg		97	80 - 125	4	25
Chloromethane	ND		9960	10900		ug/Kg		109	40 - 150	6	25
2-Chlorotoluene	ND		9960	9830		ug/Kg		99	80 - 125	3	25
4-Chlorotoluene	ND		9960	9830		ug/Kg		99	70 - 130	3	25
1,2-Dibromo-3-Chloropropane	ND		9960	8580		ug/Kg		86	60 - 145	12	25
Dibromochloromethane	ND		9960	8680		ug/Kg		87	80 - 130	4	25
1,2-Dibromoethane	ND		9960	8920		ug/Kg		90	80 - 130	6	25
Dibromomethane	ND		9960	9060		ug/Kg		91	75 - 125	6	25
1,2-Dichloroethane	ND		9960	9620		ug/Kg		97	75 - 120	5	25
1,3-Dichlorobenzene	ND		9960	9430		ug/Kg		95	80 - 130	2	25
1,4-Dichlorobenzene	ND		9960	9500		ug/Kg		95	80 - 120	4	25
Dichlorodifluoromethane	ND		9960	9090		ug/Kg		91	65 - 135	11	25
1,1-Dichloroethane	ND		9960	9200		ug/Kg		92	80 - 125	6	25
1,1-Dichloroethene	ND		9960	9080		ug/Kg		91	70 - 130	7	25
cis-1,2-Dichloroethene	ND		9960	8940		ug/Kg		90	75 - 120	4	25
trans-1,2-Dichloroethene	ND		9960	8820		ug/Kg		89	70 - 130	3	25
1,2-Dichloropropane	ND		9960	10300		ug/Kg		103	80 - 130	6	25
1,3-Dichloropropane	ND		9960	9780		ug/Kg		98	75 - 130	6	25
2,2-Dichloropropane	ND		9960	9760		ug/Kg		98	70 - 130	4	25
1,1-Dichloropropene	ND		9960	10000		ug/Kg		100	80 - 125	2	25
cis-1,3-Dichloropropene	ND		9960	9790		ug/Kg		98	80 - 130	1	25
trans-1,3-Dichloropropene	ND		9960	9650		ug/Kg		97	70 - 145	3	25
Ethylbenzene	ND		9960	9390		ug/Kg		94	80 - 125	2	25
Hexachlorobutadiene	ND		9960	10200		ug/Kg		102	45 - 150	10	25
2-Hexanone	ND		49800	42400		ug/Kg		85	65 - 150	6	25
Isopropylbenzene	ND		9960	9570		ug/Kg		96	80 - 130	4	25
p-Isopropyltoluene	ND		9960	10100		ug/Kg		101	70 - 140	6	25
4-Methyl-2-pentanone (MIBK)	ND		49800	43500		ug/Kg		87	60 - 150	6	25
Methyl tert-butyl ether	ND		9960	8800		ug/Kg		88	70 - 130	6	25
Methylene Chloride	ND		9960	9130		ug/Kg		91	70 - 120	7	25
Naphthalene	ND		9960	9110		ug/Kg		91	70 - 130	0	25
N-Propylbenzene	ND		9960	9800		ug/Kg		98	70 - 130	4	25
Styrene	ND		9960	9470		ug/Kg		95	85 - 120	3	25
1,1,1,2-Tetrachloroethane	ND		9960	9390		ug/Kg		94	80 - 130	5	25
1,1,2,2-Tetrachloroethane	ND		9960	8500		ug/Kg		85	70 - 130	5	25
Tetrachloroethene	ND		9960	9740		ug/Kg		98	75 - 140	5	25
Toluene	ND		9960	10200		ug/Kg		102	70 - 130	4	25
1,2,3-Trichlorobenzene	ND		9960	10300		ug/Kg		103	70 - 130	6	25
1,2,4-Trichlorobenzene	ND		9960	11000		ug/Kg		110	70 - 150	5	25
1,1,1-Trichloroethane	ND		9960	9500		ug/Kg		95	80 - 125	4	25
1,1,2-Trichloroethane	ND		9960	9020		ug/Kg		91	80 - 130	2	25
Trichloroethene	ND		9960	9780		ug/Kg		98	80 - 125	5	25

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

Lab Sample ID: 250-16062-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22911 — **Prep Batch: 22893**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		9960	9780		ug/Kg		98	70 - 130	4	25
1,2,3-Trichloropropane	ND		9960	8800		ug/Kg		88	70 - 130	7	25
1,2,4-Trimethylbenzene	ND		9960	10100		ug/Kg		102	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		9960	10100		ug/Kg		101	75 - 140	1	25
Vinyl chloride	ND		9960	9020		ug/Kg		91	10 - 140	6	25
m,p-Xylene	ND		19900	19000		ug/Kg		96	75 - 135	3	25
o-Xylene	ND		9960	9480		ug/Kg		95	70 - 130	1	25
1,2-Dichlorobenzene	ND		9960	9920		ug/Kg		100	80 - 120	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 125*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*
Dibromofluoromethane (Surr)	*92*		*75 - 125*
Toluene-d8 (Surr)	*100*		*75 - 125*

Lab Sample ID: MB 250-22987/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23029 — **Prep Batch: 22987**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Benzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Bromobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Bromochloromethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Bromodichloromethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Bromoform	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Bromomethane	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
2-Butanone (MEK)	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
n-Butylbenzene	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
sec-Butylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
tert-Butylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Carbon disulfide	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Carbon tetrachloride	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Chlorobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Chloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Chloroform	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Chloromethane	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
2-Chlorotoluene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
4-Chlorotoluene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2-Dibromo-3-Chloropropane	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Dibromochloromethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2-Dibromoethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Dibromomethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2-Dichloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,3-Dichlorobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,4-Dichlorobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Dichlorodifluoromethane	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1-Dichloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1

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

Lab Sample ID: MB 250-22987/1-A
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
cis-1,2-Dichloroethene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
trans-1,2-Dichloroethene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2-Dichloropropane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,3-Dichloropropane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
2,2-Dichloropropane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1-Dichloropropene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
cis-1,3-Dichloropropene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
trans-1,3-Dichloropropene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Ethylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Hexachlorobutadiene	ND		400		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
2-Hexanone	ND		1000		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Isopropylbenzene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
p-Isopropyltoluene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Methyl tert-butyl ether	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Methylene Chloride	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Naphthalene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
N-Propylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Styrene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1,1,2-Tetrachloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1,2,2-Tetrachloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Tetrachloroethene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Toluene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2,3-Trichlorobenzene	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2,4-Trichlorobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1,1-Trichloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,1,2-Trichloroethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Trichloroethene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Trichlorofluoromethane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2,3-Trichloropropane	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2,4-Trimethylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,3,5-Trimethylbenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
Vinyl chloride	ND		500		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
m,p-Xylene	ND		200		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
o-Xylene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1
1,2-Dichlorobenzene	ND		100		ug/Kg		12/19/13 10:41	12/19/13 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:10*	*1*
4-Bromofluorobenzene (Surr)	*88*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:10*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:10*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*	*12/19/13 10:41*	*12/19/13 15:10*	*1*

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

Lab Sample ID: LCS 250-22987/2-A
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9990	12300		ug/Kg		123	65 - 150
Benzene	2000	1880		ug/Kg		94	80 - 120
Bromobenzene	2000	1860		ug/Kg		93	80 - 120
Bromochloromethane	2000	1880		ug/Kg		94	80 - 120
Bromodichloromethane	2000	1920		ug/Kg		96	80 - 140
Bromoform	2000	1820		ug/Kg		91	75 - 150
Bromomethane	2000	1870		ug/Kg		93	65 - 130
2-Butanone (MEK)	9990	12400		ug/Kg		124	70 - 125
n-Butylbenzene	2000	2140		ug/Kg		107	80 - 150
sec-Butylbenzene	2000	1900		ug/Kg		95	80 - 135
tert-Butylbenzene	2000	1830		ug/Kg		91	80 - 130
Carbon disulfide	4000	4630		ug/Kg		116	65 - 140
Carbon tetrachloride	2000	1950		ug/Kg		98	70 - 130
Chlorobenzene	2000	1900		ug/Kg		95	80 - 125
Chloroethane	2000	1990		ug/Kg		100	75 - 125
Chloroform	2000	1830		ug/Kg		92	80 - 120
Chloromethane	2000	2060		ug/Kg		103	40 - 150
2-Chlorotoluene	2000	1800		ug/Kg		90	80 - 120
4-Chlorotoluene	2000	1810		ug/Kg		91	80 - 125
1,2-Dibromo-3-Chloropropane	2000	1810		ug/Kg		91	60 - 130
Dibromochloromethane	2000	1980		ug/Kg		99	75 - 125
1,2-Dibromoethane	2000	1930		ug/Kg		97	80 - 125
Dibromomethane	2000	1810		ug/Kg		91	80 - 120
1,2-Dichloroethane	2000	2000		ug/Kg		100	80 - 120
1,3-Dichlorobenzene	2000	1800		ug/Kg		90	80 - 125
1,4-Dichlorobenzene	2000	1780		ug/Kg		89	75 - 120
Dichlorodifluoromethane	2000	1950		ug/Kg		98	75 - 120
1,1-Dichloroethane	2000	1980		ug/Kg		99	80 - 120
1,1-Dichloroethene	2000	1840		ug/Kg		92	75 - 125
cis-1,2-Dichloroethene	2000	1910		ug/Kg		95	75 - 125
trans-1,2-Dichloroethene	2000	1910		ug/Kg		96	75 - 125
1,2-Dichloropropane	2000	2040		ug/Kg		102	80 - 125
1,3-Dichloropropane	2000	1900		ug/Kg		95	75 - 130
2,2-Dichloropropane	2000	2000		ug/Kg		100	70 - 130
1,1-Dichloropropene	2000	1950		ug/Kg		97	80 - 125
cis-1,3-Dichloropropene	2000	2050		ug/Kg		102	80 - 125
trans-1,3-Dichloropropene	2000	2070		ug/Kg		103	65 - 145
Ethylbenzene	2000	1770		ug/Kg		89	80 - 125
Hexachlorobutadiene	2000	2400		ug/Kg		120	80 - 150
2-Hexanone	9990	12500	*	ug/Kg		125	55 - 120
Isopropylbenzene	2000	1780		ug/Kg		89	80 - 130
p-Isopropyltoluene	2000	1870		ug/Kg		93	80 - 120
4-Methyl-2-pentanone (MIBK)	9990	12300	*	ug/Kg		123	50 - 120
Methyl tert-butyl ether	2000	2270		ug/Kg		114	75 - 125
Methylene Chloride	2000	1870		ug/Kg		94	75 - 125
Naphthalene	2000	2100		ug/Kg		105	80 - 130
N-Propylbenzene	2000	1870		ug/Kg		94	80 - 120
Styrene	2000	1860		ug/Kg		93	80 - 125

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

Lab Sample ID: LCS 250-22987/2-A
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2000	1920		ug/Kg		96	80 - 130
1,1,2,2-Tetrachloroethane	2000	1780		ug/Kg		89	70 - 135
Tetrachloroethene	2000	1860		ug/Kg		93	80 - 125
Toluene	2000	1900		ug/Kg		95	80 - 120
1,2,3-Trichlorobenzene	2000	2350		ug/Kg		118	80 - 145
1,2,4-Trichlorobenzene	2000	2330		ug/Kg		117	85 - 150
1,1,1-Trichloroethane	2000	1900		ug/Kg		95	80 - 125
1,1,2-Trichloroethane	2000	1900		ug/Kg		95	80 - 125
Trichloroethene	2000	1880		ug/Kg		94	80 - 125
Trichlorofluoromethane	2000	1970		ug/Kg		99	55 - 150
1,2,3-Trichloropropane	2000	1790		ug/Kg		89	65 - 125
1,2,4-Trimethylbenzene	2000	1820		ug/Kg		91	80 - 135
1,3,5-Trimethylbenzene	2000	1890		ug/Kg		94	80 - 135
Vinyl chloride	2000	1750		ug/Kg		88	10 - 140
m,p-Xylene	4000	3620		ug/Kg		90	80 - 120
o-Xylene	2000	1760		ug/Kg		88	80 - 125
1,2-Dichlorobenzene	2000	2010		ug/Kg		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 125*
4-Bromofluorobenzene (Surr)	*90*		*75 - 125*
Dibromofluoromethane (Surr)	*101*		*75 - 125*
Toluene-d8 (Surr)	*99*		*75 - 125*

Lab Sample ID: 250-16147-A-1-A MS
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		9680	10600		ug/Kg		109	60 - 145
Benzene	ND		1940	1930		ug/Kg		100	80 - 125
Bromobenzene	ND		1940	1970		ug/Kg		102	70 - 130
Bromochloromethane	ND		1940	1930		ug/Kg		99	80 - 130
Bromodichloromethane	ND		1940	1950		ug/Kg		101	80 - 135
Bromoform	ND		1940	1780		ug/Kg		92	70 - 130
Bromomethane	ND		1940	1680		ug/Kg		87	70 - 130
2-Butanone (MEK)	ND		9680	10600		ug/Kg		109	70 - 145
n-Butylbenzene	ND		1940	2240		ug/Kg		116	70 - 140
sec-Butylbenzene	ND		1940	2000		ug/Kg		103	70 - 135
tert-Butylbenzene	ND		1940	1950		ug/Kg		101	80 - 135
Carbon disulfide	ND		3870	4070		ug/Kg		105	70 - 130
Carbon tetrachloride	ND		1940	2010		ug/Kg		104	70 - 125
Chlorobenzene	ND		1940	1950		ug/Kg		101	70 - 130
Chloroethane	ND		1940	1900		ug/Kg		98	70 - 130
Chloroform	ND		1940	1880		ug/Kg		97	80 - 125
Chloromethane	ND		1940	1910		ug/Kg		99	40 - 150
2-Chlorotoluene	ND		1940	1850		ug/Kg		95	80 - 125
4-Chlorotoluene	ND		1940	1890		ug/Kg		98	70 - 130

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

Lab Sample ID: 250-16147-A-1-A MS
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		1940	1850		ug/Kg		96	60 - 145
Dibromochloromethane	ND		1940	1990		ug/Kg		103	80 - 130
1,2-Dibromoethane	ND		1940	1970		ug/Kg		102	80 - 130
Dibromomethane	ND		1940	1890		ug/Kg		98	75 - 125
1,2-Dichloroethane	ND		1940	2050		ug/Kg		106	75 - 120
1,3-Dichlorobenzene	ND		1940	1890		ug/Kg		98	80 - 130
1,4-Dichlorobenzene	ND		1940	1840		ug/Kg		95	80 - 120
Dichlorodifluoromethane	ND		1940	1880		ug/Kg		97	65 - 135
1,1-Dichloroethane	ND		1940	2030		ug/Kg		105	80 - 125
1,1-Dichloroethene	ND		1940	1850		ug/Kg		95	70 - 130
cis-1,2-Dichloroethene	ND		1940	1950		ug/Kg		101	75 - 120
trans-1,2-Dichloroethene	ND		1940	1950		ug/Kg		101	70 - 130
1,2-Dichloropropane	ND		1940	2100		ug/Kg		109	80 - 130
1,3-Dichloropropane	ND		1940	1930		ug/Kg		100	75 - 130
2,2-Dichloropropane	ND		1940	2100		ug/Kg		109	70 - 130
1,1-Dichloropropene	ND		1940	1980		ug/Kg		102	80 - 125
cis-1,3-Dichloropropene	ND		1940	2080		ug/Kg		107	80 - 130
trans-1,3-Dichloropropene	ND		1940	2080		ug/Kg		108	70 - 145
Ethylbenzene	ND		1940	1870		ug/Kg		97	80 - 125
Hexachlorobutadiene	ND		1940	2540		ug/Kg		131	45 - 150
2-Hexanone	ND	*	9680	10900		ug/Kg		112	65 - 150
Isopropylbenzene	ND		1940	1880		ug/Kg		97	80 - 130
p-Isopropyltoluene	ND		1940	1970		ug/Kg		102	70 - 140
4-Methyl-2-pentanone (MIBK)	ND	*	9680	10400		ug/Kg		107	60 - 150
Methyl tert-butyl ether	ND		1940	2010		ug/Kg		104	70 - 130
Methylene Chloride	ND		1940	1900		ug/Kg		98	70 - 120
Naphthalene	ND		1940	2200		ug/Kg		114	70 - 130
N-Propylbenzene	ND		1940	1940		ug/Kg		100	70 - 130
Styrene	ND		1940	1910		ug/Kg		99	85 - 120
1,1,1,2-Tetrachloroethane	ND		1940	1930		ug/Kg		99	80 - 130
1,1,2,2-Tetrachloroethane	ND		1940	1780		ug/Kg		92	70 - 130
Tetrachloroethene	ND		1940	1960		ug/Kg		101	75 - 140
Toluene	ND		1940	1960		ug/Kg		101	70 - 130
1,2,3-Trichlorobenzene	ND		1940	2600	F	ug/Kg		134	70 - 130
1,2,4-Trichlorobenzene	ND		1940	2450		ug/Kg		126	70 - 150
1,1,1-Trichloroethane	ND		1940	1970		ug/Kg		102	80 - 125
1,1,2-Trichloroethane	ND		1940	1940		ug/Kg		100	80 - 130
Trichloroethene	ND		1940	1970		ug/Kg		102	80 - 125
Trichlorofluoromethane	ND		1940	1850		ug/Kg		95	70 - 130
1,2,3-Trichloropropane	ND		1940	1780		ug/Kg		92	70 - 130
1,2,4-Trimethylbenzene	ND		1940	1930		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	ND		1940	1940		ug/Kg		100	75 - 140
Vinyl chloride	ND		1940	1530		ug/Kg		79	10 - 140
m,p-Xylene	ND		3870	3820		ug/Kg		99	75 - 135
o-Xylene	ND		1940	1850		ug/Kg		95	70 - 130
1,2-Dichlorobenzene	ND		1940	2080		ug/Kg		107	80 - 120

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

Lab Sample ID: 250-16147-A-1-A MS
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22987

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*
4-Bromofluorobenzene (Surr)	*91*		*75 - 125*
Dibromofluoromethane (Surr)	*100*		*75 - 125*
Toluene-d8 (Surr)	*99*		*75 - 125*

Lab Sample ID: 250-16147-A-1-B MSD
Matrix: Waste
Analysis Batch: 23029

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		9660	9390		ug/Kg		97	60 - 145	12	25
Benzene	ND		1930	1950		ug/Kg		101	80 - 125	1	25
Bromobenzene	ND		1930	1970		ug/Kg		102	70 - 130	0	25
Bromochloromethane	ND		1930	1890		ug/Kg		98	80 - 130	2	25
Bromodichloromethane	ND		1930	1950		ug/Kg		101	80 - 135	0	25
Bromoform	ND		1930	1770		ug/Kg		92	70 - 130	1	25
Bromomethane	ND		1930	1890		ug/Kg		98	70 - 130	12	25
2-Butanone (MEK)	ND		9660	10600		ug/Kg		110	70 - 145	0	25
n-Butylbenzene	ND		1930	2250		ug/Kg		117	70 - 140	0	25
sec-Butylbenzene	ND		1930	1970		ug/Kg		102	70 - 135	1	25
tert-Butylbenzene	ND		1930	1890		ug/Kg		98	80 - 135	3	25
Carbon disulfide	ND		3860	4150		ug/Kg		107	70 - 130	2	25
Carbon tetrachloride	ND		1930	1970		ug/Kg		102	70 - 125	2	25
Chlorobenzene	ND		1930	1930		ug/Kg		100	70 - 130	1	25
Chloroethane	ND		1930	1890		ug/Kg		98	70 - 130	1	25
Chloroform	ND		1930	1880		ug/Kg		97	80 - 125	0	25
Chloromethane	ND		1930	2200		ug/Kg		114	40 - 150	14	25
2-Chlorotoluene	ND		1930	1850		ug/Kg		96	80 - 125	0	25
4-Chlorotoluene	ND		1930	1840		ug/Kg		95	70 - 130	3	25
1,2-Dibromo-3-Chloropropane	ND		1930	1920		ug/Kg		99	60 - 145	3	25
Dibromochloromethane	ND		1930	1970		ug/Kg		102	80 - 130	1	25
1,2-Dibromoethane	ND		1930	1950		ug/Kg		101	80 - 130	1	25
Dibromomethane	ND		1930	1820		ug/Kg		94	75 - 125	3	25
1,2-Dichloroethane	ND		1930	2020		ug/Kg		104	75 - 120	2	25
1,3-Dichlorobenzene	ND		1930	1860		ug/Kg		96	80 - 130	2	25
1,4-Dichlorobenzene	ND		1930	1810		ug/Kg		94	80 - 120	2	25
Dichlorodifluoromethane	ND		1930	2040		ug/Kg		106	65 - 135	8	25
1,1-Dichloroethane	ND		1930	2070		ug/Kg		107	80 - 125	2	25
1,1-Dichloroethene	ND		1930	1880		ug/Kg		97	70 - 130	2	25
cis-1,2-Dichloroethene	ND		1930	1960		ug/Kg		102	75 - 120	0	25
trans-1,2-Dichloroethene	ND		1930	1920		ug/Kg		100	70 - 130	1	25
1,2-Dichloropropane	ND		1930	2100		ug/Kg		109	80 - 130	0	25
1,3-Dichloropropane	ND		1930	1970		ug/Kg		102	75 - 130	2	25
2,2-Dichloropropane	ND		1930	2090		ug/Kg		108	70 - 130	1	25
1,1-Dichloropropene	ND		1930	2000		ug/Kg		104	80 - 125	1	25
cis-1,3-Dichloropropene	ND		1930	2090		ug/Kg		108	80 - 130	1	25
trans-1,3-Dichloropropene	ND		1930	2100		ug/Kg		109	70 - 145	1	25
Ethylbenzene	ND		1930	1830		ug/Kg		95	80 - 125	2	25

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

Lab Sample ID: 250-16147-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23029 — **Prep Batch: 22987**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene	ND		1930	2500		ug/Kg		129	45 - 150	2	25
2-Hexanone	ND	*	9660	11000		ug/Kg		114	65 - 150	1	25
Isopropylbenzene	ND		1930	1860		ug/Kg		96	80 - 130	1	25
p-Isopropyltoluene	ND		1930	1920		ug/Kg		100	70 - 140	2	25
4-Methyl-2-pentanone (MIBK)	ND	*	9660	10800		ug/Kg		112	60 - 150	4	25
Methyl tert-butyl ether	ND		1930	2020		ug/Kg		104	70 - 130	0	25
Methylene Chloride	ND		1930	1880		ug/Kg		97	70 - 120	1	25
Naphthalene	ND		1930	2330		ug/Kg		121	70 - 130	6	25
N-Propylbenzene	ND		1930	1920		ug/Kg		99	70 - 130	1	25
Styrene	ND		1930	1900		ug/Kg		98	85 - 120	1	25
1,1,1,2-Tetrachloroethane	ND		1930	1960		ug/Kg		101	80 - 130	2	25
1,1,2,2-Tetrachloroethane	ND		1930	1780		ug/Kg		92	70 - 130	0	25
Tetrachloroethene	ND		1930	1940		ug/Kg		100	75 - 140	1	25
Toluene	ND		1930	2000		ug/Kg		104	70 - 130	2	25
1,2,3-Trichlorobenzene	ND		1930	2760	F	ug/Kg		143	70 - 130	6	25
1,2,4-Trichlorobenzene	ND		1930	2560		ug/Kg		132	70 - 150	4	25
1,1,1-Trichloroethane	ND		1930	1940		ug/Kg		101	80 - 125	1	25
1,1,2-Trichloroethane	ND		1930	1960		ug/Kg		101	80 - 130	1	25
Trichloroethene	ND		1930	1960		ug/Kg		102	80 - 125	0	25
Trichlorofluoromethane	ND		1930	1980		ug/Kg		102	70 - 130	7	25
1,2,3-Trichloropropane	ND		1930	1790		ug/Kg		92	70 - 130	0	25
1,2,4-Trimethylbenzene	ND		1930	1890		ug/Kg		98	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		1930	1920		ug/Kg		99	75 - 140	1	25
Vinyl chloride	ND		1930	1680		ug/Kg		87	10 - 140	9	25
m,p-Xylene	ND		3860	3720		ug/Kg		96	75 - 135	3	25
o-Xylene	ND		1930	1840		ug/Kg		95	70 - 130	1	25
1,2-Dichlorobenzene	ND		1930	2100		ug/Kg		109	80 - 120	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 125*
4-Bromofluorobenzene (Surr)	*90*		*75 - 125*
Dibromofluoromethane (Surr)	*100*		*75 - 125*
Toluene-d8 (Surr)	*100*		*75 - 125*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-22943/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22957 — **Prep Batch: 22943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Barium	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Cadmium	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Chromium	ND		0.96		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Lead	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Selenium	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10
Silver	ND		0.48		mg/Kg		12/17/13 21:56	12/18/13 10:15	10

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 250-22943/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22957 — **Prep Batch: 22943**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	53.8		mg/Kg		109	80 - 120
Barium	49.5	55.3		mg/Kg		112	80 - 120
Cadmium	49.5	54.1		mg/Kg		109	80 - 120
Chromium	49.5	56.0		mg/Kg		113	80 - 120
Lead	49.5	59.0		mg/Kg		119	80 - 120
Selenium	49.5	52.1		mg/Kg		105	80 - 120
Silver	24.7	27.4		mg/Kg		111	80 - 120

Lab Sample ID: 250-16077-A-20-C MS — **Client Sample ID: Matrix Spike**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22957 — **Prep Batch: 22943**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.7		48.9	58.6		mg/Kg		102	75 - 125
Barium	230		48.9	304	4	mg/Kg		155	75 - 125
Cadmium	ND		48.9	58.0		mg/Kg		118	75 - 125
Chromium	23		48.9	79.9		mg/Kg		116	75 - 125
Lead	21		48.9	82.2		mg/Kg		125	75 - 125
Selenium	ND		48.9	51.3		mg/Kg		104	75 - 125
Silver	ND		24.5	28.8		mg/Kg		117	75 - 125

Lab Sample ID: 250-16077-A-20-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22957 — **Prep Batch: 22943**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.7		49.4	59.1		mg/Kg		102	75 - 125	1	40
Barium	230		49.4	263	4	mg/Kg		70	75 - 125	15	40
Cadmium	ND		49.4	59.2		mg/Kg		120	75 - 125	2	40
Chromium	23		49.4	83.3		mg/Kg		122	75 - 125	4	40
Lead	21		49.4	75.7		mg/Kg		111	75 - 125	8	40
Selenium	ND		49.4	51.3		mg/Kg		103	75 - 125	0	40
Silver	ND		24.7	29.2		mg/Kg		118	75 - 125	2	40

Lab Sample ID: MB 250-22973/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Barium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Cadmium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Chromium	ND		0.98		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Lead	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Selenium	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10
Silver	ND		0.49		mg/Kg		12/18/13 21:55	12/19/13 12:08	10

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 250-22973/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	48.7	51.1		mg/Kg		105	80 - 120
Barium	48.7	56.6		mg/Kg		116	80 - 120
Cadmium	48.7	49.6		mg/Kg		102	80 - 120
Chromium	48.7	52.2		mg/Kg		107	80 - 120
Lead	48.7	55.6		mg/Kg		114	80 - 120
Selenium	48.7	49.2		mg/Kg		101	80 - 120
Silver	24.4	26.2		mg/Kg		108	80 - 120

Lab Sample ID: 250-16067-23 MS — **Client Sample ID: tote A, E, I, O**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	ND		49.0	59.9		mg/Kg		122	75 - 125
Cadmium	ND		49.0	58.7		mg/Kg		120	75 - 125
Lead	ND		49.0	58.4		mg/Kg		119	75 - 125
Silver	ND		24.5	29.4		mg/Kg		120	75 - 125

Lab Sample ID: 250-16067-23 MS — **Client Sample ID: tote A, E, I, O**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		49.0	46.1		mg/Kg		94	75 - 125
Chromium	ND		49.0	46.7		mg/Kg		96	75 - 125
Selenium	ND		49.0	43.4		mg/Kg		89	75 - 125

Lab Sample ID: 250-16067-23 MSD — **Client Sample ID: tote A, E, I, O**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	ND		50.0	65.9	F	mg/Kg		132	75 - 125	10	40
Cadmium	ND		50.0	60.5		mg/Kg		121	75 - 125	3	40
Lead	ND		50.0	62.8	F	mg/Kg		126	75 - 125	7	40
Silver	ND		25.0	31.4	F	mg/Kg		126	75 - 125	7	40

Lab Sample ID: 250-16067-23 MSD — **Client Sample ID: tote A, E, I, O**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23005 — **Prep Batch: 22973**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		50.0	46.9		mg/Kg		94	75 - 125	2	40
Chromium	ND		50.0	47.0		mg/Kg		94	75 - 125	1	40
Selenium	ND		50.0	44.8		mg/Kg		90	75 - 125	3	40

QC Sample Results

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 250-22966/10-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22972 — **Prep Batch: 22966**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.079		mg/Kg		12/18/13 15:31	12/18/13 19:59	1

Lab Sample ID: LCS 250-22966/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22972 — **Prep Batch: 22966**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.553	0.581		mg/Kg		105	80 - 120

Lab Sample ID: 250-16117-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22972 — **Prep Batch: 22966**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.578	0.584		mg/Kg		96	75 - 125

Lab Sample ID: 250-16117-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 22972 — **Prep Batch: 22966**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.498	0.482		mg/Kg		91	75 - 125	19	40

Method: 1020A - Ignitability, Setaflash Closed-Cup Method

Lab Sample ID: 250-16067-1 DU — **Client Sample ID: tote A**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 151003

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	114		114		Degrees F		NC	20

Lab Sample ID: 250-16067-9 DU — **Client Sample ID: tote I**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 151033

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	88		88.0		Degrees F		NC	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 250-22998/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23017 — **Prep Batch: 22998**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.2		mg/Kg		12/19/13 12:47	12/19/13 17:06	1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 250-22998/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23017 — **Prep Batch: 22998**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			5.63	5.61		mg/Kg		100	75 - 125		

Lab Sample ID: 250-16067-17 MS — **Client Sample ID: tote Q**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23017 — **Prep Batch: 22998**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND		5.33	5.39		mg/Kg		101	75 - 125		

Lab Sample ID: 250-16067-17 MSD — **Client Sample ID: tote Q**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23017 — **Prep Batch: 22998**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.29	5.43		mg/Kg		103	75 - 125	1	40

Lab Sample ID: 250-16067-17 DU — **Client Sample ID: tote Q**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 23017 — **Prep Batch: 22998**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND			ND		mg/Kg				NC	40

Certification Summary

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Method Summary

Client: International Resource Management
Project/Site: ATI Ferry

TestAmerica Job ID: 250-16067-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
1020A	Ignitability, Setaflash Closed-Cup Method	SW846	TAL SEA
9012A	Cyanide, Total and/or Amenable	SW846	TAL PRT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

9405 SW Nimbus Ave
Beaverton, OR 97008-7145
503-906-9200 Fax 503-906-9210

Chain of Custody Record

250-16067 Chain of Custody

DUANE@WASTEX.COM

Client Contact	Project Manager: DUANE NEWCOM	Site Contact:	Date:	COC No:
Client Name WASTEXPRESS	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address 11615 N. LOMBARD	Analysis Turnaround Time			Job No.
City/State/Zip PORTLAND OR 97203	Calendar (C) or Work Days (W) _____			
Phone 503-224-3206	TAT if different from Below _____			
FAX	☐ 2 weeks			SDG No.
Project Name: ATT FERRY	☐ 1 week			
Site: FERRY ST	☐ 2 days			
PO # 16751	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	FLASH	Sample Specific Notes:
TOTE A	12/12/13	10:55			1		Y	
TOTE B	12/12/13	10:58			1		Y	
TOTE C	12/12/13	10:00			1		Y	
TOTE D	12/12/13	11:02			1		Y	
TOTE E	12/12/13	11:04			1		Y	
TOTE F	12/12/13	11:06			1		Y	
TOTE G	12/12/13	11:08			1		Y	
TOTE H	12/12/13	11:10			1		Y	
TOTE I	12/12/13	11:11			1		Y	
TOTE J	12/12/13	11:13			1		Y	
TOTE K	12/12/13	11:15			1		Y	
TOTE L	12/12/13	11:17			1		Y	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

12/12/13 12:40

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
DUANE NEWCOM	WXP	10:06	Rudy Bonda	Senvor	12/13/13 10:06AM
Relinquished by: Rudy Bonda	Company: Senvor	Date/Time: 12:04 12/13	Received by: Tom Krause	Company: TAR	Date/Time: 12/13/13 1206
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TAL-1002 0912

Form No. CA-C-WI-002, Rev. 3.1, dated 07/12/2012

9405 SW Nimbus Ave
Beaverton, OR 97008-7145
503-906-9200 Fax 503-906-9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: DUANE NEUKOM	Site Contact:	Date:	COC No:
Client Name WASTEXPRESS	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address 11618 N LOMBARD	Analysis Turnaround Time			Job No. 250-16067
City/State/Zip PORTLAND OR 97203	Calendar (C) or Work Days (W) ____			
Phone 503-224-3206	TAT if different from Below ____			SDG No.
FAX	☐ 2 weeks			
Project Name: ATI FERRY	☐ 1 week			
Site: ATI FERRY ST	☐ 2 days			Sampler:
PO # 18751	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	FLASH	total VOC	total metals 8	total CN	Sample Specific Notes:
tote M	12/12/13	11:19			1		X				
tote N	12/12/13	11:21			1		X				
tote O	12/12/13	11:24			1		X				
tote P	12/12/13	11:25			1		X				
tote Q	12/12/13	11:26			1		X	X	X	X	
tote R	12/12/13	11:48			1		X	X	X	X	
~~tote~~ B, C, D	12/12/13	11:39	C		1			X	X	X	
H, L, M	12/12/13	11:37	C		1			X	X	X	
tote F, N	12/12/13	11:45	C		1			X	X	X	
tote G, J, K, P	12/12/13	11:42	C		1			X	X	X	
tote A, E, I, O	12/12/13	11:33	C		1			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Special Instructions/QC Requirements & Comments:

1R 1P/N 12.4C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Duane Neukom	WXP	10:00	Ruby Bande	Senvoy	12/13/13 10:06
Ruby Bande	Senvoy	12:06	Tom Krause	TAP	12/13/13 1206

TAL-1002 0912

Form No. CA-C-WI-002, Rev. 3.1, dated 07/12/2012

12/20/2013

Login Sample Receipt Checklist

Client: International Resource Management

Job Number: 250-16067-1

Login Number: 16067

List Source: TestAmerica Portland

List Number: 1

Creator: Krause, Thomas A

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

Login Sample Receipt Checklist

Client: International Resource Management

Job Number: 250-16067-1

Login Number: 16067
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle
List Creation: 12/16/13 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ATTACHMENT E – Hazardous Waste Manifests

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Partnering with you for success EQ eqm.com

June 16, 2014

Mr. Dan Heister, OSC
U.S. EPA Region 10
805 SW Broadway, Suite 500
Portland, Oregon 97205

Reference: Contract No. EP-S7-13-02

Subject: CERCLA Off-Site Disposal Report for Ferry Street - ATL
Task Order 0003-009, EQ Project No. 030309.0003.009

Dear Mr. Heister:

Environmental Quality Management, Inc. (EQ) is pleased to submit the enclosed CERCLA Off-Site Disposal Reports for the subject Task Order. These reports are submitted in accordance with the referenced contract section, Section F.2 Reports of Work, CERCLA Off-Site Disposal Report.

Please review the reports and call me at (425) 673-2900 should you require further information.

Sincerely,

ENVIRONMENTAL QUALITY MANAGEMENT, INC.

Ron Mc Manamy
Deputy Program Manager

RM/lt

Enclosure

Cc: File

18939 120th Avenue NE, Ste 103 | Bothell, Washington 98011 | TEL 425.673.2900 | FAX 425.673.7511

CERCLA OFF-SITE DISPOSAL REPORT

THE CERCLA OFF-SITE DISPOSAL REPORT

Information Required for CERCLA Off-Site Waste Management Activities

1. Superfund site name/State/CERCLIS number:
   Ferry Street - ATL
   140 Queen Avenue SW
   Albany, Oregon 97321
   ORD987190451

2. Type of Action (check two)

X	Removal	___	Remedial
X	Fund-financed	___	Fund-financed
___	PRP-financed	___	PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheet for this and remaining questions for each type:
   Reference Attached Waste Profile

4. Quantity of waste:
   Reference Attached Waste Tracking Sheet

5. Range, average, and /or representative concentrations of the contaminants of concern:
   Reference Attached Waste Profile
   Waste Name: Non-regulated Material, Pipes with Solidified Polymer

6. Pre-treatment of waste before transportation: **None**
   ____ precipitation ____ neutralization ____ solidification ____ fixation
   ____ stabilization ____ other

7. Receiving RCRA facility name/location/ID number/unit(s)
   Reference Attached Manifest, Box 8

8. Receiving Region
   Reference Attached Manifest, Box 8

9. Receiving Region Off-Site Contact (RROC). (note - this is the individual designed pursuant to the May 6, 1985 policy.)*
   Name: Ofelia Erickson **Date**: 4/15/14

10. Date(s) of Shipments **(Reference Attached Manifest, Box 15),** Date disposal is completed (data that facility signs manifest for receipt of final shipment)
    Reference Attached Manifest, Box 20

11. Pre-treatment of waste at the site before final treatment or disposal:

____ precipitation ____ neutralization
____ solidification ____ fixation
____ stabilization ____ other

12. Final method of treatment or disposal/unit receiving:

____ precipitation ____ neutralization
____ incineration _X_ landfill
____ land treatment ____ injection
____ recovery/re-use ____ other

13. If wasteland filled:
-What disposal cell number or location?
-Type of liner in cell?

14. Cost of activities: $2,678.29
-Cost based on treatment/disposal only (no transportation cost): $899.36
-Cost for transportation: $1,560.00
-Cost for other: $218.93

enclosures

WASTE TRACKING SHEET

Ferry Street - ATL
TO No. 0003-009
EQ Project No. 030309.0003.009
Transportation and Disposal Tracking Sheet

Vendor Name: **Waste Management**
PO #: 19702

Waste Name	Profile #	Facility	Ship Date	Manifest #	Trans Qty	Transport Cost	Transport Total	Disposal Qty	Disposal Cost	Disposal Total	Other Cost	TOTAL
Pipe With Solidified Polymer	OR324434	CWMNW, Inc.	4/16/2014	1024989	1.00	$1,560.00	$1,560.00	10.22	$88.00	$899.36	$218.93	$2,678.29
		Arlington, OR										
TOTALS							$1,560.00			$899.36	$218.93	$2,678.29

WASTE PROFILE

WASTE MANAGEMENT

EZ Profile™

Requested Facility: Chemical Waste Management (Hazardous Waste Facility) ☐ Unsure Profile Number: OR324434

☐ Multiple Generator Locations (Attach Locations) ☑ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: USEPA Region 10
2. Site Address: 2830 S.W. Ferry Street
   (City, State, ZIP) Albany OR 97323
3. County: Linn
4. Contact Name: Jerry Wade
5. Email: wade1109@msn.com
6. Phone: (503) 953-5263 7. Fax: _____
8. Generator EPA ID: _____ ☐ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: Environmental Quality Management, Inc.
2. Billing Address: 18939 120th Avenue NE, Suite 103
   (City, State, ZIP) Bothell WA 98011
3. Contact Name: Jerry Wade
4. Email: wade1109@msn.com
5. Phone: (425) 673-2900 6. Fax: (425) 673-7511
7. WM Hauled? ☐ Yes ☑ No
8. P.O. Number: _____
9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

1. Common Name: Pipes Containing Solidified Polymer
   Describe Process Generating Material: ☐ See Attached

   Removal of product piping that once carried a polymer (grafting material) liquid that has solidified in the pipes.

2. Material Composition and Contaminants: ☐ See Attached

1. Pipes	90 - 100 %
2. Corn Starch	0 - 7 %
3. Acrylonitrile	0 - 7.5 %
4. Ceris Ammonium Nitrate	0 - 0.2 %
Total composition must be equal to or greater than 100%	≥100%

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

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☑ Yes ☐ No
   Code: X004
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. Contains benzene **and** subject to Benzene NESHAP? ☐ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ☑ Yes* ☐ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☑ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No
   c. Were PCB imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☑ No
11. Contains Asbestos? ☐ Yes ☑ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

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

F. SHIPPING AND DOT INFORMATION

1. ☑ One-Time Event ☐ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 10
   ☐ Tons ☑ Yards ☐ Drums ☐ Gallons ☐ Other: _____
3. Container Type and Size: 20 cubic yard roll-off box
4. USDOT Proper Shipping Name: ☑ N/A

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

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

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

Name (Print): Daniel Heister Date: 04/09/2014

Title: USEPA / RIO Fed. On-Scene Coordinator

Company: ↓

Certification Signature

Daniel Heister

Revised October 28, 2013
©2013 Waste Management, Inc.

WASTE MANAGEMENT

EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: OR324434

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
10.	
Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers:
   b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? ❑ Yes ❑ No
   c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. ❑ Yes ❑ No
   d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? ❑ Yes ❑ No
      → If Yes, please check **one** of the following:
      ❑ Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
      ❑ Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.
2. State Hazardous Waste → Please list all state waste codes: _____
3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
   ❑ Delisted Hazardous Waste ❑ Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
   ❑ Treated Hazardous Waste Debris ❑ Treated Characteristic Hazardous Waste → If checked, complete question 4.
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:
5. Benzene NESHAP → Please include percent water/moisture in chemical composition.
   a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.
   b. What is your facility's current total annual benzene quantity in Megagrams? ❑ <1 Mg ❑ 1–9.99 Mg ❑ ≥10 Mg
      1. Flow weighted average benzene concentration is _____ ppmw.
   c. Is this waste soil from remediation at a closed facility? ❑ Yes ❑ No
      1. Benzene concentration in remediation waste is _____ ppmw.
   d. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? ❑ Yes ❑ No
   e. Is material exempt from controls in accordance with 40 CFR 61.342? ❑ Yes ❑ No
      → If yes, specify exemption: _____
   f. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? ❑ Yes ❑ No
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? ❑ Yes ❑ No
7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.
8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____

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WASTE MANIFEST

24

434078

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	ORD987190451	1	(800) 424-9300	1024989

5. Generator's Name and Mailing Address
U.S. EPA REGION 10
2830 SW FERRY STREET
ALBANY, OR. 97323 (503) 953-5263
Generator's Phone:

Generator's Site Address (if different than mailing address)
ABSORBENT TECHNOLOGIES
140 QUEEN AVE, SW
ALBANY, OR. 97322

6. Transporter 1 Company Name
WEST COAST MARINE CLEANING, INC.
U.S. EPA ID Number: WAD988479440

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWMNW, INC.
17829 CEDAR SPRINGS LANE
ARLINGTON, OR. 97812-9709
Facility's Phone:
U.S. EPA ID Number: ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED MATERIAL, PER 49 CFR (X004)	001	CM	1540 ~~2000~~	P	
2.				KLC A-1 16-14		
3.						
4.						

13. Special Handling Instructions and Additional Information
1. OR324434; PIPES WITH SOLIDIFIED POLYMER: ERG# N/A
1540 p.
DROPBOX# 33D-2D
CHEMTREC# CCN24117

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Dan Heister
Signature: Dan Heister
Month 4 Day 16 Year 14

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kathy Chapman
Signature: Kathy Chapman
Month 4 Day 16 Year 14
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Quantity changed by driver ~~Dm~~ 4-16-14
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Sue McAhren
Signature: Sue McAhren
Month 4 Day 16 Year 14

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

CERCLA OFF-SITE DISPOSAL REPORT

THE CERCLA OFF-SITE DISPOSAL REPORT

Information Required for CERCLA Off-Site Waste Management Activities

1. Superfund site name/State/CERCLIS number:
   Ferry Street - ATL
   140 Queen Avenue SW
   Albany, Oregon 97321
   ORD987190451

2. Type of Action (check two)

_X_	Removal	___	Remedial
_X_	Fund-financed	___	Fund-financed
___	PRP-financed	___	PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheet for this and remaining questions for each type:
   Reference Attached Waste Profile

4. Quantity of waste:
   Reference Attached Waste Tracking Sheet

5. Range, average, and /or representative concentrations of the contaminants of concern:
   Reference Attached Waste Profile
   Waste Name: Carbon with Acrylonitrile

6. Pre-treatment of waste before transportation: **None**
   ____ precipitation ____ neutralization ____ solidification ____ fixation
   ____ stabilization ____ other

7. Receiving RCRA facility name/location/ID number/unit(s)
   Reference Attached Manifest, Box 8

8. Receiving Region
   Reference Attached Manifest, Box 8

9. Receiving Region Off-Site Contact (RROC). (note - this is the individual designed pursuant to the May 6, 1985 policy.)*
   Name: Ofelia Erickson **Date**: 4/15/14

10. Date(s) of Shipments **(Reference Attached Manifest, Box 15),** Date disposal is completed (data that facility signs manifest for receipt of final shipment)
    Reference Attached Manifest, Box 20

11. Pre-treatment of waste at the site before final treatment or disposal:

____ precipitation ____ neutralization
____ solidification ____ fixation
____ stabilization ____ other

12. Final method of treatment or disposal/unit receiving:

____ precipitation ____ neutralization
_X_ incineration ____ landfill
____ land treatment ____ injection
____ recovery/re-use ____ other

13. If wasteland filled:
-What disposal cell number or location?
-Type of liner in cell?

14. Cost of activities: $21,947.06
-Cost based on treatment/disposal only (no transportation cost): $17,100.00
-Cost for transportation: $1,404.00
-Cost for other: $3,443.06

enclosures

WASTE TRACKING SHEET

Ferry Street - ATL
TO No. 0003-009
EQ Project No. 030309.0003.009
Transportation and Disposal Tracking Sheet

Vendor Name: **Clean Harbors**
PO #: 19701

Waste Name	Profile #	Facility	Ship Date	Manifest #	Trans Qty	Transport Cost	Transport Total	Disposal Qty	Disposal Cost	Disposal Total	Other Cost	TOTAL
Carbon with Acrylonitrile	CH785798	Clean Harbors	4/16/2014	7488706FLE	1.00	$1,404.00	$1,404.00	36.00	$475.00	$17,100.00	$3,443.06	$21,947.06
		El Dorado, AR										
TOTALS							$1,404.00			$17,100.00	$3,443.06	$21,947.06

WASTE PROFILE

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH785798

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # *NONEREQUIRED* GENERATOR NAME: *USEPA Region 10*

GENERATOR CODE (Assigned by Clean Harbors) *US28791* CITY *Albany* STATE/PROVINCE *OR* ZIP/POSTAL CODE *97321*

ADDRESS *140 Queen Avenue SW* PHONE: **(503) 953-5263**

CUSTOMER CODE (Assigned by Clean Harbors) *ENV4753* CUSTOMER NAME: *Environmental Quality Management Inc*

ADDRESS *18939 120th Ave NE Suite 103* CITY *Bothell* STATE/PROVINCE *WA* ZIP/POSTAL CODE *98011*

B. WASTE DESCRIPTION

WASTE DESCRIPTION: *Carbon with acrylonitrile*

PROCESS GENERATING WASTE: **Filtering acrylonitrile**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- [x] SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 2 3

% BY VOLUME (Approx.)

TOP	*0.00*
MIDDLE	*0.00*
BOTTOM	*0.00*

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

blackish

ODOR
- NONE
- [x] MILD
- STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- 1-9%
- [x] >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- [x] 7 (Neutral)
- 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- [x] > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
ACRYLONITRILE, INHIBITED	5.0000000	--	20.0000000	%
CARBON (GRANULATED)	80.0000000	--	95.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. *G43* SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. *W310*

Clean Harbors Profile No. CH785798

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑
	VOLATILE COMPOUNDS					
D018	BENZENE	0.5				
D019	CARBON TETRACHLORIDE	0.5				
D021	CHLOROBENZENE	100.0				
D022	CHLOROFORM	6.0				
D028	1,2-DICHLOROETHANE	0.5				
D029	1,1-DICHLOROETHYLENE	0.7				
D035	METHYL ETHYL KETONE	200.0				
D039	TETRACHLOROETHYLENE	0.7				
D040	TRICHLOROETHYLENE	0.5				
D043	VINYL CHLORIDE	0.2				
	SEMI-VOLATILE COMPOUNDS					
D023	o-CRESOL	200.0				
D024	m-CRESOL	200.0				
D025	p-CRESOL	200.0				
D026	CRESOL (TOTAL)	200.0				
D027	1,4-DICHLOROBENZENE	7.5				
D030	2,4-DINITROTOLUENE	0.13				
D032	HEXACHLOROBENZENE	0.13				
D033	HEXACHLOROBUTADIENE	0.5				
D034	HEXACHLOROETHANE	3.0				
D036	NITROBENZENE	2.0				
D037	PENTACHLOROPHENOL	100.0				
D038	PYRIDINE	5.0				
D041	2,4,5-TRICHLOROPHENOL	400.0				
D042	2,4,6-TRICHLOROPHENOL	2.0				
	PESTICIDES AND HERBICIDES					
D012	ENDRIN	0.02				
D013	LINDANE	0.4				
D014	METHOXYCHLOR	10.0				
D015	TOXAPHENE	0.5				
D016	2,4-D	10.0				
D017	2,4,5-TP (SILVEX)	1.0				
D020	CHLORDANE	0.03				
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008				

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE

< 1000 PPM

>= 1000 PPM

PCBs

☑ NONE

< 50 PPM

>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

Clean Harbors Profile No. CH785798

F. REGULATORY STATUS

☑ YES ☐ NO USEPA HAZARDOUS WASTE?

D001 U009

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

☑ YES ☐ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: *This is subject to LDR.*
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☐ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES ☐ NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES ☐ NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

☑ YES ☐ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES ☑ NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

☑ YES ☐ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES ☑ NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? _____ Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

RQ, UN2926, WASTE FLAMMABLE SOLIDS, TOXIC, ORGANIC, N.O.S., (ACRYLONITRILE), 4.1, (6.1), PG II (D001=100LB)

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

☑ **CONTAINERIZED**

15-25 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:

CUBIC YARD BOX PALLET

TOTE TANK ☑ DRUM

OTHER:

DRUM SIZE: *55*

BULK LIQUID

GALLONS/SHIPMENT: *0 Min -0 Max* GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: *0 Min - 0 Max*

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE

WASTE MANIFEST

ORD 987190451 719677717 SC PPW 12/11/2013

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NONEREQUIRED
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 007488706 FLE

5. Generator's Name and Mailing Address
USEPA Region 10
140 Queen Avenue SW
Albany, OR 97321
Generator's Phone: (503) 953-5263

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: Safety Kleen Systems Inc — U.S. EPA ID Number: TXR000081205

8. Designated Facility Name and Site Address
Clean Harbors El Dorado LLC
309 American Circle
El Dorado, AR 71730
Facility's Phone: (870) 863-7173
U.S. EPA ID Number: ARD069748192

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN2926, WASTE FLAMMABLE SOLIDS, TOXIC, ORGANIC, N.O.S., (ACRYLONITRILE), 4.1, (6.1), PG II (D001=100LB)	36	DM	17,100	P	D001	U009	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1 CH785798 ERG#13436 38X55

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: Dan Heister — Signature: Dan Heister — Month 4 Day 16 Year 14

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: Steve Rivas on behalf of Clean Harbors — Signature: [signature] — Month 4 Day 16 Year 17
Transporter 2 Printed/Typed Name: Martin Skaiou — Signature: [signature] — Month 04 Day 17 Year 14

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Apr 14, 2014

MANIFEST INFORMATION

Generator : USEPA Region 10

Address: 140 Queen Avenue SW
Albany,OR 97321

EPA ID #: NONEREQUIRED

Manifest Tracking Info.

007488706FLE

Sales Order No: 7I9677717

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH785798	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D001	High TOC Ignitable Liquids
U009	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
ACRYLONITRILE	Y	N	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : Dan Heister

Print Name Dan Heister

Title : FOSC / USEPA

Date : 4/16/14

ORD 987190451

CERCLA OFF-SITE DISPOSAL REPORT

Solving Problems…Creating Cost-Effective, Sustainable Solutions!

THE CERCLA OFF-SITE DISPOSAL REPORT

Information Required for CERCLA Off-Site Waste Management Activities

1. Superfund site name/State/CERCLIS number:
   Ferry Street - ATL
   140 Queen Avenue SW
   Albany, Oregon 97321
   ORD980984313

2. Type of Action (check two)

_X_	Removal	___	Remedial
_X_	Fund-financed	___	Fund-financed
___	PRP-financed	___	PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheet for this and remaining questions for each type:
   Reference Attached Waste Profile

4. Quantity of waste:
   Reference Attached Waste Tracking Sheet

5. Range, average, and /or representative concentrations of the contaminants of concern:
   Reference Attached Waste Profile
   Waste Name: Waste Water

6. Pre-treatment of waste before transportation: **None**
   ____ precipitation ____ neutralization ____ solidification ____ fixation
   ____ stabilization ____ other

7. Receiving RCRA facility name/location/ID number/unit(s)
   Reference Attached Manifest, Box 8

8. Receiving Region
   Reference Attached Manifest, Box 8

9. Receiving Region Off-Site Contact (RROC). (note - this is the individual designed pursuant to the May 6, 1985 policy.)*
   Name: Ofelia Erickson **Date**: 4/23/14

10. Date(s) of Shipments **(Reference Attached Manifest, Box 15),** Date disposal is completed (data that facility signs manifest for receipt of final shipment)
    Reference Attached Manifest, Box 20

11. Pre-treatment of waste at the site before final treatment or disposal:

____ precipitation ____ neutralization
____ solidification ____ fixation
____ stabilization ____ other

12. Final method of treatment or disposal/unit receiving:

____ precipitation ____ neutralization
_X_ incineration ____ landfill
____ land treatment ____ injection
____ recovery/re-use ____ other

13. If wasteland filled:
-What disposal cell number or location?
-Type of liner in cell?

14. Cost of activities: $1,218.00
-Cost based on treatment/disposal only (no transportation cost): $768.00
-Cost for transportation: $450.00
-Cost for other: $0.00

enclosures

WASTE TRACKING SHEET

Ferry Street - ATL
TO No. 0003-009
EQ Project No. 030309.0003.009
Transportation and Disposal Tracking Sheet

Vendor Name: **PSC**
PO #: NA

Waste Name	Profile #	Facility	Ship Date	Manifest #	Trans Qty	Transport Cost	Transport Total	Disposal Qty	Disposal Cost	Disposal Total	Other Cost	TOTAL
Waste Water	97314	Burlington Env.	4/25/2014	97314DAT	1.00	$450.00	$450.00	3.00	$256.00	$768.00	$0.00	$1,218.00
		Kent, WA										
TOTALS							$450.00			$768.00	$0.00	$1,218.00

WASTE PROFILE

Generator's Waste Profile 638820-00

Printed: 6/16/2014

Status: Pending

Starts: 2014-04-24
Expires: 2015-04-30

A. Generator Site Information

US EPA REGION IX
140 QUEEN AVE SW
ALBANY, OR 97321
Phone:
Contact:

EPA#: ORD980984313
SIC Codes: N

B. Customer Address

ENVIRONMENTAL QUALITY MGMT INC
18939 120th Avenue NE, Ste#103
BOTHELL, WA 98011
Phone: (425) 673-2900
Fax: (425) 673-7511

C. Waste Information

MSDS: No
Analysis: No
Sample: No
Waste Name: WASTE WATER
Process: CERCLA SITE CLEANUP/REMOVAL
Unused Commercial Product: No
Spill Residue: No

D. Physical Characteristics of Waste

Layers		Phys States	Colors				
Single Phased	Top	Liquid	VARIOUS	Spec Grav:	1.1-1.2	PH Range:	4.1-10
	Middle	N/A		Free Liq %:	100	Flash Test:	
	Bottom	N/A				Flash Range:	<140
				Odor:	None		
% Ash:	0	% Halogens:	0	% Water:	90-100	Viscosity:	Low
Pumpable:	No	BTU:	0	Benzene PPM:	0		

E. Chemical Composition of Waste

PCBs: NS
Cyanides: NS
Phenolics: NS
Sulfides: NS
TOC: >1%
VOC: >500 PPM
Dioxins: NS
Herbicides: NS
Pesticides: NS
Ammonia: NS
Volatile Organic Compounds: >500 PPM
Total Organic Carbons: >1%

Chemicals:	Min	Max	Unit
METHANOL	10	20	%
WATER	80	90	%

F. Metals

Metals Method: Generator Knowledge

Arsenic (As)	<5 ppm	Barium (Ba)	<100 ppm
Cadmium (Cd)	<1 ppm	Chromium (Cr)	<5 ppm
Lead (Pb)	<5 ppm	Mercury TCLP	<0.2 ppm
Mercury Total	ppm	Selenium (Se)	<1 ppm
Silver (Ag)	<5 ppm	Nickel (Ni)	ppm
Thallium (Ti)	ppm	Zinc (Zn)	ppm
Copper (Cu)	ppm		

G. Regulated Organics

Organic Code Min Reg TCLP Total

H. Other Characteristics of Waste

Ign. Solid? No
Oxidizer? No
Sulfide Reactive No
Other Reactive? No
Shock Sensitive? No
Water Reactive? No
Cyanide Reactive No
Universal Waste? No
Radioactive? No
Explosive? N/A
Asbestos? N/A
Water > 10%? Yes
Medical? No

I. Use EPA/State Waste Identification

Form Code: W113
TSCA: No
SubpartCC: Yes
DW/EHW: DW
Source Code: G43
Debris: No
CERCLA: Yes
EPA Regulated? Yes
State Regulated? No
Contains Regulated Organics? No
EPA Codes: D001 U154

State Codes:
UHC Codes:
Texas Codes:

J. Shipping Information

Container Type:	DM	Qty to Ship Now:		Poisonous?	No	Marine Pollutant?	No
		Projected Volume:	per Month	Dangerous When Wet?	No	Inhalation Hazard?	No

DOT Shipping Name: UN1230 WASTE METHANOL SOLUTION 3 PGII

Hazard Class: 3

SubHazard Class:

Additional Description:

K. Special Handling Information

Waste Category: INC09

GENERATOR CERTIFICATION

I hereby certify, as an authorized representative of the Generator named above, that Burlington Environmental, LLC has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate.If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing.

Except as otherwise agreed to in writing between PSC Environmental Services, LLC (and/or its subsidiaries) and Customer, by signing in the space indicated below, you, on behalf of Customer, acknowledge that you have read and agree to the Standard Terms and Conditions located at http://www.pscnow.com/legal.aspx.

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).

Signature	Printed Name	Title	Date

WASTE MANIFEST

155200-14 1811863

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ORD980984313	1	(877) 577-2669	000097314 DAT

5. Generator's Name and Mailing Address
US EPA REGION IX
805 SW BROADWAY - SUITE 550
PORTLAND OR 97205
Generator's Phone:

Generator's Site Address (if different than mailing address)
US EPA REGION IX
140 QUEEN AVE SW
ALBANY OR 97321 ( ) -

6. Transporter 1 Company Name: NRC Environmental Portland OR — U.S. EPA ID Number: ORQ000020644

7. Transporter 2 Company Name: Burlington Environmental, LLC — U.S. EPA ID Number: WAR000001743

8. Designated Facility Name and Site Address
BURLINGTON ENVIRONMENTAL, LLC. KENT FACILITY
20245 77TH AVENUE SOUTH
KENT, WA 98032. (253). 872-8030.
Facility's Phone: — U.S. EPA ID Number: WAD991281767.

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~MATERIAL NOT REGULATED BY DOT (WASTEWATER ASSOCIATED WITH ASPHALT TANK CLEANUP)~~ RQ, UN1993, WASTE FLAMMABLE LIQUIDS, NOS (METHANOL), 3, PG III	3	DM	90	G	D001 U154
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
(1) 638820-00 - WASTE WATER

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: Daniel Heister — Signature: Daniel Heister — Month 4 Day 25 Year 14

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: Everardo Mosqueda — Signature: Everardo Mosqueda — Month 4 Day 25 Year 14
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Cassandra Gallegos — Signature: [signature] — Month 5 Day 12 Year 14

GENERATOR / TRANSPORTER / DESIGNATED FACILITY / INT'L

79643

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

'14 MAY 12 PM 11:15

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