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February 23, 2017

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Remedial Bureau A, 12th Floor
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625 Broadway
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Subject: AST Decommissioning Report
Ciba-Geigy/Hercules Site
EPA ID: NYD002069748
Site No.: 557011

Dear Mr. Jankauskas:

On behalf of Hercules Incorporated, a wholly-owned subsidiary of Ashland, Inc. (Ashland) and BASF Corporation, Antea® Group is pleased to submit the enclosed AST Decommissioning Report for the Pretreatment Plant (PTP) Solid Waste Management Unit (SWMU) at the Ciba-Geigy/Hercules Site, located at 89 Lower Warren Street, Queensbury, New York. Activities conducted at the PTP were in accordance with the requirements specified in the New York State Department of Environmental Conservation Part 373 Hazardous Waste Permit No. 5-5234-00008/00096, dated March 2015 as well as the NYSDEC-approved Work Plan dated September 23, 2015.

The attached final report addresses the NYSDEC comments sent on October 21, 2016, with the exception of comment number 4 regarding sampling of locations noted in Section 7, bullets 1 and 3. A sampling plan for these locations will be included as part of the tank demolition plan.

If you need a hardcopy of this report, please notify us and we will prepare and submit the required number of reports in hardcopy format. Should you have any questions or require additional information please feel free to contact James Vondracek (Ashland, Inc.), Stephen Havlik (BASF) or myself at 914-495-9937 or Christopher.Meyer@anteagroup.com.

Sincerely,



Christopher Meyer
Senior Project Manager
Antea Group

cc: Mr. James Vondracek – Ashland
Mr. Stephen Havlik – BASF
Mr. John Swartwout - NYSDEC

AST Decommissioning Report

*Former CIBA-GEIGY/HERCULES Plant Site
89 Lower Warren Street, Queensbury, NY
EPA ID: NYD002069748*

*Antea Group Project No. GLENSFA151
February 23, 2017*

Prepared for:
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Table of Contents

1.0	INTRODUCTION	2
2.0	WORK PERFORMED	3
3.0	CONFIRMATION RINSATE	6
3.1	Rinsate Procedures	6
3.1.1	Wall Rinsate	6
3.1.2	Floor Rinsate	7
3.1.3	Sand Filter Vessel Rinsate	7
3.2	Confirmation Rinsate Analytical Results	8
4.0	WASTE – CHARACTERIZATION, SAMPLING, AND DISPOSAL	11
4.1	General	11
4.2	Waste Water	11
4.2.1	Waste and Wash Water Sample Collection Procedure	12
4.2.2	Waste and Wash Water Analytical Results	12
4.3	Solid Waste	14
4.3.1	Environmental Media Waste Sample Collection Procedure	14
4.3.2	Solid Waste Analytical Results	15
4.4	Waste Management	16
4.4.1	Decontamination Waste	16
4.4.2	Liquid Waste Disposal	16
4.4.3	Environmental Media Solidification	17
4.4.4	Solid Waste Disposal	17
4.4.5	Hazardous Waste Disposal	17
5.0	COMMUNITY AIR MONITORING	18
6.0	QUALITY ASSURANCE/QUALITY CONTROL PROGRAM	19
6.1	Quality Assurance/Quality Control (QA/QC)	19
7.0	OBSERVATIONS AND LIMITATIONS	20
8.0	SUMMARY	20

Figures

- Figure 1 Site Map
Figure 2 Former Pretreatment Plant Sample Quadrants

Appendices

- Appendix A Design Document Pretreatment Plant Process Summary Table
Appendix B Correspondence
Appendix C Photo Log
Appendix D Confirmatory Sample Laboratory Data
Appendix E Waste Characterization Laboratory Data
Appendix F Waste Manifests
Appendix G CAMP Exceedances
Appendix H Data Usability Summary Report

Tables

- Table 1 Confirmatory Sample Results
Table 2 Liquid Waste Characterization Summary Results (POTW)
Table 3 Liquid Waste Characterization Summary Results
Table 4 Solid Waste Characterization Summary Results

1.0 INTRODUCTION

On behalf of Hercules Incorporated (Hercules), Antea Group has prepared this Tank Decommissioning Report for the former Ciba Geigy Corporation (CIBA) pigments manufacturing facility located at 89 Lower Warren Street in Queensbury, NY (the Site). The Site was purchased by CIBA from Hercules in 1979, and was historically operated as a pigments manufacturing facility until 1989. Since that time, Ashland Inc. (Ashland) acquired Hercules and BASF Corporation (BASF) acquired CIBA. Site environmental activities are conducted under a Hazardous Waste Management (HWM) Post Closure Permit issued by the New York State Department of Environmental Conservation (NYSDEC; Site No. 557011, Permit no. 5-5234-00008/00096, EPA ID No. NYD002069748). Hercules and CIBA are the Site Permittees and share responsibility for on-going environmental activities.

As a matter of background, the New York State Department of Environmental Conservation (NYSDEC) conducted an annual Resource Conservation and Recovery Act (RCRA) inspection at the Site on July 17, 2014. During the inspection, three vessels were observed at the Pretreatment Plant (PTP) area of the site, including one aboveground storage tank (AST) and two skid-mounted vessels. Figure 1 shows the location of the PTP. The vessels consisted of AST T-110 (T-110), which had an operating capacity of 500,000 gallons, and two vessels (reportedly sand filters with approximately 8,000 pounds capacity each), both attached to the same skid-mounted support structure. The locations of the tank and sand filter vessels are shown on Figure 2. A historical process summary for the tank, vessels, and other equipment is presented in Appendix A.

According to available documentation, the tank and vessels were historically used for:

- storage and/or treatment of facility process water during historical plant operation;
- treatment of water from interim remedial measures (IRMs);
- for management of construction water and storm water generated during Corrective Measures Implementation (CMI), and
- collection of water generated from operation of the groundwater extraction system (GWES) prior to discharge under permit to the City of Glens Falls Sewer System.

Additional information pertaining to historical usage of the PTP was presented in the NYSDEC approved Work Plan, dated September 23, 2015.

In July 2014, the NYSDEC inquired as to whether the AST and skid-mounted vessels had been properly cleaned after the Groundwater Extraction System (GWES) Pretreatment Process was shut-down in 2002, and if so, whether or not documentation/certification could be provided confirming the cleaning was completed in accordance with

applicable NYSDEC regulations. A review of available project records was conducted and summary information was provided to NYSDEC; however, specific information which directly detailed/certified the final cleaning of the AST and vessels could not be located.

A Work Plan for the AST decommissioning was prepared in accordance with the requirements of the Site Permit and applicable NYSDEC Division of Environmental Remediation regulations, including “DER-10 Technical Guidance for Site Investigation and Remediation,” and applicable Division of Environmental Remediation regulations guidance documents and procedures which specifically include NYCRR Part 373 regulations for Hazardous Waste Management Facilities. The Work Plan, dated September 23, 2015, was sent to the NYSDEC and was approved by NYSDEC in a letter dated September 30, 2015 (reference Appendix B).

AST decommissioning work began at the PTP on October 12, 2015. A description of the work completed and results of confirmation sampling to document cleaning and decommissioning activities are discussed herein. Photographs of the tank, vessels, and equipment are provided in Appendix C.

2.0 WORK PERFORMED

Per the Work Plan, AST decommissioning activities at the PTP Solid Waste Management Unit (SWMU) were completed between October 12, 2015 and December 2, 2015. Project oversight was provided by Antea Group (Site Manager). Project work was completed by Op-Tech (subcontractors), who provided cleaning and removal services for the tank, vessels and ancillary pipe work. A summary of the work is as follows. Note that the details related to sample collection and waste determination are described in Sections 3 and 4.

- Work began October 12, 2015 when subcontractors mobilized to the site and staged equipment in dedicated work areas determined by the Antea Group Site Manager. Before work activity began, the scope of work, health and safety procedures, and community air monitoring plans were reviewed with subcontractors.
- The first step in cleaning T-110 was the removal of the standing water that had accumulated in the tank. In order to drain the water, a hole was cut through the tank wall near above the water line near the access port door and the standing water was pumped out of the tank using a vacuum truck. The water was pumped through a bag filter equipped with a 50-micron sock filter, into Frac tank #1 and Frac tank #3 (note that Frac tank #2 was used later in the process to hold wash water from pressure washing). The frac tanks are 21,000 gallon closed-top stainless steel tanks. Once the standing water was removed, the tank contents were allowed to settle overnight. This free-liquid removal process was conducted over a four day period and a total of approximately 38,000 gallons of water were pumped from T-110.

- The solid environmental media accumulations that remained were later determined by the NYSDEC to be bio-accumulation that had occurred over time (additional detail regarding this determination can be found in the “Contained-In” Determination Request letter dated November 3, 2015 are provided in section 4.4.3 and presented in Appendix B). The remaining environmental media was then removed from T-110 using a vacuum truck. The material was placed in two 25-yard roll-off containers (Roll-off #1 and Roll-off #2), which were deployed on poly-sheeting and lined on the interior with fabric filter liners.
- An estimated 32 tons of environmental media was removed from T-110 and transferred to the two roll-offs containers for dewatering and solidification. Due to the saturation of the environmental media following initial removal from T-110, the environmental media was left to sit on the filter liner in the roll-offs to dewater as much as possible before solidification and transport. As the environmental media was dewatering, water accumulated in the bottom of the roll-offs, and was subsequently pumped into Frac tank #2. In order to minimize turbidity during the transfer of the accumulated water, a 50-micron filter sock was placed over the end of the transfer hose, as well as in the pump. As a result, any water that was pumped from the roll-offs and into Frac #2 was double-filtered. Water generated during subsequent cleaning events was also emptied into Frac #2.
- After all water and environmental media had been removed from T-110, subcontractors began the initial wash. The interior tank wall was found to be covered in a dark brown build-up. In order for the build-up to wash off down to the white undercoating, 3,000 PSI pressure washers had to be placed close to the interior walls, often less than one-inch from the wall. Washing was conducted until wash water flowed clear.
- Due to the large size of T-110, the tank decontamination was conducted in separate steps. A general summary of the steps are as follows:
 - An initial wash was conducted to remove the outermost layer of material that had collected on the tank walls (build-up believed to be a combination of protective coating overlain by layers of historic process water accumulation). Following the initial wash, the tank walls and floor were divided into quadrants (NE, NW, SE, and SW) for more focused cleaning. Surfaces were considered clean when visual observations by the Site Manager indicated no loose material remained and removable discoloration was no longer observed.
 - A second, more in-depth cleaning took place quadrant-by-quadrant, where any residual build-up left from the initial wash was pressure washed clean. Based upon visual inspection and review of preliminary rinsate results, some areas were re-addressed with additional washing.
 - During the initial wash, the build-up/coating of the walls would break off in chips of various sizes. These chips were periodically collected in 55-gallon steel drums, as necessary, to keep the floor free of debris. Any residual build-up remaining on the wall was washed again, until the white

undercoating was visible, or, until no material was chipping off with the pressure washer. Any water generated from the cleaning was transferred into the frac tanks.

- As described in the approved Work Plan, following a preliminary 'clean' determination, the AST was triple rinsed using pressure washers on a mist setting, detailed below (see section 3.0). Decontamination water and residual waste that accumulated at the bottom of T-110 during the cleanings was removed using a pump or tanker truck, and transferred to the Frac tanks (liquids only) or 55-gallon drums (solids only).
- Two ancillary pipes located on the tank interior in the northwest quadrant were removed prior to the second round of cleaning so that the pressure washers could access the area of the wall underneath the piping, where build-up appeared to have accumulated in heavier amounts compared to other areas. These pipes were adjacent to the large 16-inch influent pipe located near the top of T-110. The two pipes were decontaminated in the tank, then removed and placed in the PTP building, wrapped in plastic, and staged on-site for disposal during demolition activities.
- The floor quadrants were cleaned following the same procedure outlined above, with the exception of the pressure washers. A 10,000 PSI pressure washer was utilized during floor cleaning activities in order to improve the efficiency of the cleaning process. Debris was squeegeed and drummed at the end of each quadrant cleaning to ensure contaminated chips were not falling into cleaned quadrants. Water from floor cleaning was vacuumed out daily and emptied into frac tanks.
- Upon opening the sand filter vessels (Vessel 1 and Vessel 2), approximately 1,000 gallons of water was observed in each of the vessels and was drained into Frac tank #1. After the initial draining, the vessels were decontaminated. An initial wash was conducted using a 3,000 PSI pressure washer. The pressure washing was conducted from the outside of the vessels, with pressure washer attachments reaching the interior through the opening ports on the side and top of the vessels. No change in color of the walls resulted from pressure washing. Washing of the vessels continued until wash water flowed clear. Water from the initial and second cleaning of each vessel was pumped through a filter before being emptied into Frac #1. Confirmation rinsate samples were collected on November 4, 2015 following a visual determination of cleanliness. Surfaces were considered clean when visual observations indicated loose material was no longer observed.
- Two 6-inch exterior pipes leading into T-110 from inside the PTP building were blanked, and influent piping located at the top of T-110 was capped. Vessel 1 and Vessel 2 piping was blanked in a total of six locations (two locations on top of the vessels and four outlet pipes near the bottom of the vessels).
- Following decontamination of T-110 and completion of line blanking and pipe capping, twelve holes of 1" diameter were drilled into the tank side walls, located approximately ½" above the base of the tank. These

holes were drilled to address concerns regarding precipitation accumulation in the tank following decontamination.

- Samples were handled by field and laboratory personnel in a manner which allowed for custody tracking and maintained the validity of the samples. Sample custody procedures were presented in the Quality Assurance Project Plan (QAPP), included in the Work Plan. Details of the QAPP are outlined in Section 6.0 below. All sampling equipment, field measuring equipment and heavy equipment was decontaminated according to the decontamination procedures presented in the Work Plan.
- Equipment Decontamination - A temporary decontamination pad was constructed on-site for equipment decontamination. General cleanup of equipment utilized to handle contaminated material was performed at the temporary equipment decontamination pad located directly outside the work zone. The pad was bermed with wooden 4x4s, and poly-sheeting was laid down during decontamination activities. Gross removal of bulk debris from tank cleaning equipment was initially performed by brushing or scraping, followed by thorough decontamination with a pressure washer/steam cleaner. Small tools and equipment that could not be safely pressure washed were hand washed with a warm detergent solution within the equipment decontamination pad. Sampling equipment was properly discarded upon completion of the sampling events.

3.0 CONFIRMATION RINSATE

Due to the large surface area of the interior wall of T-110, each wall quadrant was divided into two sections for sampling purposes (NE-1, NE-2, NW-1, NW-2, SE-1, SE-2, SW-1, SW-2), as shown on Figure 2. These sections were approximately 20-25 feet wide. The floor was divided into quadrants (NW, NE, SW, and SE). Confirmatory rinsate samples were collected and analyzed after a quadrant was determined to be visually clean.

3.1 Rinsate Procedures

3.1.1 Wall Rinsate

As detailed in the approved Work Plan and Field Sampling Plan (FSP), following the initial and second washes, a triple rinse of each quadrant was completed by subcontractors prior to rinsate wash/sampling. The decontaminated areas were rinsed three times then allowed to air dry. Once the area had sufficiently dried, potable rinse water was sprayed on the top of the wall at low pressure for a minimum period of ten minutes, allowing for complete wall saturation. Rinse water was allowed to flow down the wall and collected into a temporary containment area. The temporary containment area was constructed using clean poly-sheeting taped at the edges to the wall, with sand bags wrapped in poly-sheeting used as a berm to ensure water pooled in one area. The wall surface was sprayed in a manner which allowed the entire area being sampled to have contact with the rinsate water. Once the period of

ten minutes had elapsed and all rinse water had pooled below, rinsate samples were collected from the water that had accumulated in the temporary containment area. Rinsate samples were collected directly into the appropriate sample containers (if unpreserved) or in the case of preserved bottles, collected and transferred from decontaminated, unpreserved laboratory bottles into the appropriate sample containers. Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly stored on ice, and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP sent as part of the Work Plan and were adhered to by the field staff during sample collection. Rinsate analytical data results are presented below and in Table 1.

3.1.2 Floor Rinsate

Following the initial and second washes, a triple rinse of each floor quadrant was completed by subcontractors prior to rinsate washing. The decontaminated areas were rinsed three times during the triple rinse, then allowed to air dry. Once the area had sufficiently dried, a temporary bermed area made of sand bags covered in poly sheeting was constructed, creating a sectioned off quadrant for rinse water to collect in. In order to produce a representative sample, water was sprayed at a low pressure over the floor sample area for a period of ten to fifteen minutes. Water was allowed to pool within the contained area, where it was collected directly into the appropriate sample containers (if unpreserved) or collected with decontaminated, unpreserved laboratory bottles and transferred into appropriate containers. Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly stored on ice and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP were included as part of the Work Plan and were adhered to by the field staff during sample collection. Rinsate analytical data results are presented below and in Table 1.

3.1.3 Sand Filter Vessel Rinsate

A triple rinse was completed on the interior of sand filter vessels 1 and 2 and the interiors allowed to air dry. Following air drying, the interiors of the vessels were rinsed with a low pressure mist, allowing water to pool on the bottom of the vessels. Rinsate water was collected directly into the appropriate sample containers (if unpreserved) or collected with decontaminated, unpreserved laboratory bottles and transferred into appropriate containers (if preserved). Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly stored on ice, and transported to the laboratory under proper chain-of-custody (Appendix D). Sample custody procedures listed in the FSP were included as part of the Work Plan and were adhered to by the field staff during sample collection. Duplicate and matrix spike samples were collected from the Vessel 2 rinsate sampling. Rinsate analytical data results are presented below and in Table 1.

3.2 Confirmation Rinsate Analytical Results

NYSDEC does not have published performance standards for target levels of contaminants of concern (COCs) that can be used to demonstrate successful cleaning of the tank systems. Site COCs include RCRA metals, hexavalent chromium, vanadium and cyanide. Therefore, the results of confirmatory rinse water samples were compared to Part 703 Class GA groundwater quality standards to assess the effectiveness of cleaning of the AST. If a Class GA standard did not exist, a Class A SW standard was used for comparison. Additional analytes that were detected in liquid and environmental media waste characterization samples were evaluated against their specific Class GA standard, if one exists.

Analyte	Performance Standard (ug/L)
Arsenic	25
Barium	1,000
Cadmium	5
Chromium	50
Lead	25
Mercury	0.7
Selenium	10
Silver	50
Hexavalent Chromium	50
Vanadium	14
Cyanide	200

The rinsate samples were analyzed for site COCs plus any analytes that were detected in liquid and environmental media waste characterization samples (detailed in Section 4.0 and in Appendix E). Additional analytes detected in the PTP AST liquid waste sample collected on May 20, 2015 included metals (aluminum, antimony, beryllium, calcium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc), which were included in the rinsate sample analyte list.

Confirmatory rinsate samples were analyzed using methods listed in ALS Environmental Analytical Methods table below by ALS Environmental, which is a NYSDOH ELAP certified analytical laboratory. Laboratory analytical procedures adhered to the latest version of the New York State (NYS) Analytical Service Protocol (ASP) and/or to United States Environmental Protection Agency (USEPA) SW-846 methodologies as appropriate.

ALS Environmental Analytical Methods	
General Chemistry Parameters	
Ammonia as Nitrogen, undistilled	ASTM D6919-09
Biological Oxygen Demand	SM 5210B
Chemical Oxygen Demand	410.4
Chromium, Hexavalent	7196A
Cyanide, Total	9012B
Flash Point	ASTM D92-05a
Free Liquid	9095B
pH	SM 4500-H+B/9045D
Phenolics, Total Recoverable	420.4 Modified/9066 Modified*
Solids, Total Suspended (TSS)	SM 2540D
Total Solids	ALS SOP
Sulfide	SM 4500 S2-F
Sulfide, Reactive	9034 Modified
Inorganic Parameters	
Metals	6010C
Mercury	7470A
VOCs/SVOCs	
VOCs	8260C
SVOCs	8270D

Rinsate analytical data are presented in Table 1, and the laboratory analytical reports are provided in Appendix D. Below is an abbreviated table listing on those analyte concentrations detected above comparison criteria (Confirmation Rinsate Sample Exceedances). As data was reported from the lab, it was sent to the NYSDEC for approval for preliminary clean benchmarks. As stated earlier, NYSDEC does not have published performance standards for target levels of COCs that can be used to demonstrate successful cleaning of tank systems. Therefore the comparison to Part 703 Class GA groundwater quality standards was to provide a frame of reference for NYSDEC review. All rinsate results were approved by NYSDEC in an e-mail on December 14, 2015, prior to completion of cleaning activities.

Confirmation Rinsate Sample Exceedances			
Sample ID	Analyte Exceeding Comparison Criteria	NYSDEC Groundwater Standard (ug/L)	Exceedance Concentration (ug/L)
NE-1	Iron	300	771
Vessel 1	Chromium	50	97
	Copper	200	231
	Iron	300	7,740
Vessel 2	Chromium	50	96
	Iron	300	1,010
	Chromium, hexavalent	50	70
NE-2	Iron	300	640
	Sodium	20,000	33,100
NW-1	Iron	300	430
	Sodium	20,000	33,800
NW-2	Sodium	20,000	33,100
SE-1	Iron	300	600
SE-2	Iron	300	610
	Sodium	20,000	20,100
SW-1	Iron	300	930
SW-2	Iron	300	540
NW Floor*	Lead	25	70
SW Floor	Aluminum	100**	120
	Iron	300	660
	Lead	25	81
SE Floor	Iron	300	820

*NW Floor sample was analyzed outside of the 24-hour hold time for hexavalent chromium, therefore, NW Floor – R was collected the day following initial rinsate sample collection for NW Floor to analyze for hexavalent chromium. Hexavalent chromium was not detected in sample NW Floor – R.

**Surface Water Standard

4.0 WASTE – CHARACTERIZATION, SAMPLING, AND DISPOSAL

4.1 General

During the decommissioning activities, several streams of waste were generated.

- Waste water from dewatering;
- Wash water from cleaning;
- Solid waste from removal of environmental media;
- Hazardous waste from chips and settled sediment.

All waste generated from decommissioning activities was containerized, characterized and disposed of at a properly permitted disposal facility that was approved by the Permittees and NYSDEC. Samples were collected from each source and laboratory tests for characterization were conducted based on requirements of the accepting facilities. A total of eight samples were collected for waste classification and disposal purposes. An outline of sample collection procedures and analytical data is presented in sections 4.2, 4.3, and 4.4. Laboratory analytical procedures adhered to the latest version of the NYS ASP and/or to USEPA SW-846 methodologies as appropriate.

4.2 Waste Water

Liquid Characterization Sample

On May 20, 2015, prior to initiation of decommissioning activities, a sample (referred to as PTP AST) was collected from liquid contained in T-110 to evaluate management and disposal options. This data was provided to NYSDEC for the contained-in determination, as well as the waste water treatment facility approval. A summary of data can be found in Table 2 and Table 3 and complete laboratory data packages are provided in Appendix E. The sample was analyzed using methods listed in the Test America Analytical Methods table below by Test America, which is a NYSDOH ELAP certified analytical laboratory.

Test America Analytical Methods	
General Chemistry Parameters	
Ammonia as Nitrogen, undistilled	EPA Method 350.1
Biological Oxygen Demand	SM 5210B
Chemical Oxygen Demand	SM 5220D
Chromium, Hexavalent	7196A
Corrosivity	SM 4500 H+B
Cyanide, Total	9012B
Phenolics, Total Recoverable	EPA Method 420.1
Solids, Total Suspended (TSS)	SM 2540D
Sulfide	SM 4500 S2-F
Ignitability	1010A

Test America Analytical Methods	
Inorganic Parameters	
Metals	6010C
Mercury	7470A
VOCs/SVOCs	
VOCs	8260B
SVOCs	8270D

Laboratory analytical procedures adhered to the latest version of the NYS ASP and/or to USEPA SW-846 methodologies as appropriate.

4.2.1 Waste and Wash Water Sample Collection Procedure

In October 2015, liquid from each of the frac tanks was sampled for analytes that are consistent with the Site's wastewater permit (City of Glens Falls Industrial Wastewater Discharge Permit No. 002 (E)). Liquids in the frac tanks consisted of water from the initial dewatering of the tank, wash water collected during cleaning, and wash water used during decontamination activities. The following is an overview of procedures used to collect water samples from Frac tank #1 and Frac tank #3 (FRAC-1 and FRAC-3, respectively) on October 14, 2015 and Frac #2 (FRAC-2) on October 29, 2015 for waste characterization purposes:

- A dedicated, disposable bailer was attached to a dedicated nylon rope and lowered into each frac tank for sample collection purposes. Water collected in the bailers was transferred to the appropriate, lab-supplied sampling containers. Care was taken not to agitate the sample when transferring it from the bailer to the laboratory-supplied vials.
- Care was taken to not overfill the bottles during sample collection thereby ensuring proper sample preservation. Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly preserved, stored on ice and transported to the laboratory under proper chain-of-custody (Appendix E).

As with the May 20th sample (PTP AST), this data was provided to NYSDEC for the contained-in determination, as well as the waste water treatment facility approval.

4.2.2 Waste and Wash Water Analytical Results

Laboratory analytical results are summarized in Table 2 and Table 3 and complete laboratory data packages are provided in Appendix E. Samples were analyzed using methods listed in the ALS Environmental Analytical Methods table by ALS Environmental. Table 2 compares laboratory analytical results for samples PTP AST, FRAC-1, FRAC-2 and

FRAC-3 against the POTW Permit Effluent Limitations, listed in the City of Glens Falls Industrial Wastewater Discharge Permit No. 002 (E). Table 3 compares laboratory analytical results for PTP AST, FRAC-1, FRAC -2 and FRAC-3 against NYSDEC Class GA Groundwater Standards found in TOGS 1.1.1. A review of the analytical data is presented in the Liquid Waste Samples table below:

Liquid Waste Samples			
Sample ID	Relative Standard	Purpose of Sample	Analytes in Exceedance
PTP-AST	NYSDEC Class GA Groundwater Standards	Contained-in/non-hazardous determination	Aluminum
			Antimony
			Barium
			Cadmium
			Chromium
			Iron
			Lead
			Mercury
			Nickel
	POTW Permit Effluent Limitations	POTW approval to accept water	Calcium
			Iron
			Lead
			Zinc
FRAC-1	NYSDEC Class GA Groundwater Standards	Contained-in/non-hazardous determination	Iron
			Phenolics, total recoverable
	POTW Permit Effluent Limitations	POTW approval to accept water	None
FRAC-2	NYSDEC Class GA Groundwater Standards	Contained-in/non-hazardous determination	Acetone
			2-Butanone
			Dimethyl Phthalate
			Aluminum
			Cadmium
			Chromium
			Iron
			Lead
			Phenolics, total recoverable
			Cyanide
	POTW Permit Effluent Limitations	POTW approval to accept water	None

Liquid Waste Samples			
FRAC-3	NYSDEC Class GA Groundwater Standards	Contained-in/non-hazardous determination	Iron
			Phenolics, total recoverable
	POTW Permit Effluent Limitations	POTW approval to accept water	None

Based upon the results of the representative samples described above, waste water from FRAC-1 and FRAC-3 was approved for off-site transport and treatment by the NYSDEC on October 23, 2015 and the POTW on October 26, 2015. Based upon the approvals for FRAC-1 and FRAC-3, and that FRAC-2 wastewater was generated from the same waste stream, the characterization that led to the approval of FRAC-1 and FRAC-3 wastewater was applied to disposal of FRAC-2 wastewater. In the NYSDEC comments dated October 21, 2016, the NYSDEC requested a contained-in request be submitted for FRAC-2. Analytical data and a contained-in request for the waste water in FRAC-2 was sent to the NYSDEC on November 22, 2016 and the NYSDEC approved the request on December 1, 2016.

4.3 Solid Waste

Solid waste samples were collected throughout the decontamination process for waste characterization purposes. Details regarding waste disposal can be found in Section 4.4. Data was provided to disposal facilities and the NYSDEC for approval prior to being removed from the Site. Laboratory analytical results for solid waste are summarized in Table 4 and complete laboratory data packages are provided in Appendix E.

4.3.1 Environmental Media Waste Sample Collection Procedure

Environmental media that was removed from T-110 was sampled on October 15, 2015 (WC-1). The following procedures were utilized to collect representative environmental media samples (following removal of standing water) for waste characterization purposes:

- WC-1 was a composite sample collected from ten locations around the tank floor, at varying depths, using small hand tools. The environmental media was conveyed utilizing a decontaminated stainless steel trowel and placed into a new, disposable 50-micron filter bag. The bag was hung over a clean 5-gallon bucket to allow for the environmental media to dewater.
- The sample was visually inspected for any evidence of potential contamination. After dewatering, the sample was screened for VOCs with a photoionization detector (PID). No VOCs were detected during the screening. The environmental media was then emptied into a decontaminated stainless steel bowl and homogenized using the method detailed in the FSP. The entirety of the sample was mixed one final time and laboratory samples were collected after homogenization. Environmental media samples did not require preservation except for maintaining the media at approximately 4°C.

- Sample containers were capped immediately after filling and placed into a chilled cooler for transport to the laboratory. All samples were properly preserved, stored on ice, and transported to the laboratory under proper chain of custody (Appendix E).

4.3.2 Solid Waste Analytical Results

Environmental media that was removed from T-110 was sampled on October 15, 2015 (WC-1). Samples from Roll-off #1 (BOX-1) and Roll-off #2 (BOX-2) were collected for paint filter analysis on November 13, 2015, at the request of High Acres Landfill, for disposal purposes. On October 30, 2015, a waste characterization sample (CHIPS-1) was collected from one of the 55-gallon steel collection drums containing chips from the cleaning of the interior walls of T-110. Laboratory analytical results for solid waste are summarized in Table 4 and complete laboratory data packages are provided in Appendix E. A review of the analytical data is presented in the Solid Waste Samples table below. No TCLP VOCs or metals exceeded the relative standard.

Solid Waste Samples				
Sample ID	Relative Standard	Purpose of Sample	Analytes in Exceedance	Resolution
WC-1	Maximum Concentration of Contaminants (MCC) for the Toxicity Characteristic, based on 40 CFR 261.24 - TCLP VOCs and Metals Only	Landfill Approval	None	NYSDEC approval on 11/3/2015; High Acres Landfill approved waste profile on 01/21/2016
CHIPS-1	Maximum Concentration of Contaminants (MCC) for the Toxicity Characteristic, based on 40 CFR 261.24 - TCLP VOCs and Metals Only	Waste determination (hazardous)	None	NYSDEC Waste Determination on 12/17/2015; US Ecology approval of waste on 2/15/2016
BOX-1	None	Landfill Approval (Paint Filter and Total Solids)	None	High Acres Landfill approved waste profile on 01/21/2016
BOX-2	None	Landfill Approval (Paint Filter and Total Solids)	None	High Acres Landfill approved waste profile on 01/21/2016

4.4 Waste Management

4.4.1 Decontamination Waste

Decontamination waste was segregated by physical state (e.g. solid or liquid) and properly containerized. The containers were sealed at the end of each workday and properly labeled. Bulk debris from the cleaning of the excavator bucket following the mixing of lime ash into Roll-offs #1 and #2 was scraped into a containment area, and any debris generated added back into Roll-off #1. The bucket was rinsed with a pressure washing over the roll-off then wrapped in clean plastic. Non-hazardous personal protective equipment (PPE) used during cleaning was placed in contractor garbage bags, removed from site, and disposed of by the subcontractors.

At any point in which the vacuum truck was utilized to move a different media (i.e. wastewater from frac tanks vs. cleaning water or chips generated during AST cleanings) the vacuum truck would be decontaminated. Wash water from decontamination was drummed and water was allowed to settle. Water from drums was transferred to the frac tanks, while sediments were containerized in 55-gallon drums for disposal.

4.4.2 Liquid Waste Disposal

Prior to discharging wastewater to the onsite Effluent Pumping Station (EPS), the NYSDEC reviewed the sample data in order to make a “contained-in” determination for the representative samples outlined in the Liquid Waste Samples table. After review, the NYSDEC indicated in a letter dated October 23, 2015 that the water met the “contained-in” groundwater action levels and Land Disposal Restriction concentrations. Furthermore, the NYSDEC indicated that the water was not considered hazardous waste, thus, allowing it to be disposed of at the Glens Falls POTW, after being compared to the Industrial Wastewater Permit No. 002E limits. On October 26, 2015, the Glens Falls Waste Water Treatment Plant gave approval for wastewater from frac tanks to be sent to the POTW via the EPS. In an attempt to minimize turbidity of wastewater being sent to the POTW, water was pumped from the frac tanks through a pump equipped with a sock filter and into the vacuum truck. Water transported to the EPS was emptied directly into the settling tank located at the Main Plant Site, which discharged to the POTW with daily flow via the dedicated pipeline.

A summarization of the basic steps of the emptying of frac tanks were as follows:

- The top hatch cover of frac tank was opened and the hose from the vacuum truck was placed into the frac tank to transfer water;
- Transport and transfer/disposal of wastewater to site EPS via vacuum truck with a 3,200 gallon tank capacity (approximately 3,200 gallons per load until daily maximum limit of 12,000 gallons, allowed by Glens Falls POTW, was reached, or less depending on daily work);
- Once frac tanks were empty, any residual materials were emptied into 55-gallon drums for later disposal.

Throughout the entire decommissioning process, approximately 105,000 gallons of water from initial dewatering and subsequent cleanings was discharged to the POTW via the EPS (manifests provided in Appendix F).

4.4.3 Environmental Media Solidification

Before environmental media material could be disposed of, the contents of Roll-off #1 and Roll-off #2 needed to be solidified to more than 20% solids based on High Acres Landfill requirements. The material was solidified using dolomitic limestone dust. Six sacks (2,500 pounds each) were added to each roll-off bin and mixed with a mini-excavator until the environmental media held a solid consistency. Based on the volume of limestone dust used and the final total volume of environmental media waste in the roll-off bins, it was estimated for each bin that 60% of the material was environmental media and 40% limestone dust.

At the request of High Acres Landfill, final post solidification total solids samples were collected from the roll-offs (referred to as sample BOX-1 and BOX-2) on December 28, 2015. A review of the analytical data indicated BOX-1 held a total solids percentage of 76.8% while BOX-2 held a total solids percentage of 73.7%.

4.4.4 Solid Waste Disposal

Following the cleaning of environmental media from T-110, and subsequent sampling, it was determined the material was not process waste remaining from previous tank use. The NYSDEC issued a “contained-in” determination, sent on November 3, 2015, stating the material was a result of the breakdown and decomposition of leaves and other organic matter that accumulated over time as a result of the AST being an open-top tank. The NYSDEC reviewed the WC-1 data, and it was determined the environmental media did not have to be managed as a hazardous waste because there were no hazardous constituents exceeding the “contained-in” criteria and the waste did not exhibit any hazardous characteristics. This determination by the NYSDEC along with the laboratory data, was reviewed by Waste Management, which approved the waste profile for the roll-off containers on January 21, 2016 (see Appendix B). On February 6, 2016, 27 tons of material contained within the roll-off containers was transported to Waste Management’s High Acres Landfill for disposal. An additional eight 55-gallon cardboard/fiber drums of environmental media collected during the decontamination of the roll-off bins was also sent to High Acres Landfill for disposal on April 27, 2016 (manifests provided in Appendix F).

4.4.5 Hazardous Waste Disposal

Following the cleaning of T-110 interior surfaces, and subsequent waste profile sampling of the chips, the NYSDEC issued a determination in regards to the chip material. In a letter received on December 17, 2015, the NYSDEC stated the chip material was not considered an environmental media, and thus a contained-in determination could not be

provided. However, it was the NYSDEC's opinion that based upon the results of the waste profile samples and T-110's historical use to contain materials that were K listed wastes, the chip material generated during the cleaning should be treated and handled as a hazardous waste. This determination by the NYSDEC, along with the laboratory data, was reviewed by US Ecology of Livonia, Michigan, which approved the waste profile for the chip material on February 15, 2015 under Michigan Disposal approval code B160147MDI. A total of seven drums containing the chip material were transported offsite to US Ecology's Michigan Disposal Waste Treatment Plant on March 7, 2016, with one additional drum transported offsite on April 26, 2016 (manifests provided in Appendix F).

5.0 COMMUNITY AIR MONITORING

A Community Air Monitoring Plan (CAMP) was prepared for the work activities and followed throughout the duration of cleaning activities. The CAMP was included as part of the Work Plan, and is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDOH and the NYSDEC. The plan follows procedures and practices outlined under the NYSDOH's Generic Community Air Monitoring Plan, dated June 2000.

The CAMP provided for a measure of protection for downwind communities from potential airborne releases of constituents of concern during the cleaning of the ASTs. The CAMP specified air emissions monitoring criteria, air monitoring procedures, monitoring schedule and data collection and reporting requirements for the activities conducted. Real-time air monitoring was implemented at the site for VOCs and particulate matter less than 10 microns in diameter (PM₁₀). Prior to the start of work activities, a site boundary was established for air monitoring purposes. Upwind and downwind monitoring locations were determined through visual observation; wind direction was noted via several raised flags, and monitored were placed in accordance with the direction of the wind. Monitoring also occurred in each work zone area. Three portable set-ups including a RAE® Systems MiniRAE 3000, DustTrak II, along with Netronix transmitters, which were capable of providing instantaneous readings, average readings, and data logging in three locations (upwind of activity, in the work zone, and downwind of activity). Baseline air sampling took place prior to the start of cleaning activities on October 12, 2015.

Monitoring locations were determined daily based on visual observations and wind direction, precipitation, and work tasks. Air monitoring equipment was placed upwind, downwind, and at the working locations at the start of each workday. In the event the wind direction shifted more than 45 degrees from the original upwind direction during the workday, then new upwind and downwind sampling locations were established and location changes were documented in the field logbook. A RAE® Systems MiniRAE 3000 was used to conduct real-time VOC monitoring. Real-time particulate monitoring took place using Dust Trak II instruments with electronic data-logging

capabilities. All 15-minute readings, as well as instantaneous readings, were recorded in an online database and monitored by field staff for any exceedances of monitoring criteria. As described in the CAMP, if ambient air concentrations of total VOCs exceeded 5 parts per million (ppm) above the background (upwind location) for the 15-minute average, work activities were temporarily halted to address the source of the exceedance and monitoring continued. If the ambient air concentration of PM₁₀ at any one (or more) of the monitoring locations was noted in levels in excess of 100 micrograms per cubic meter ($\mu\text{g}/\text{L}^3$) above the background (upwind location) for a 15-minute period, or if the airborne mist, aerosol or dust was observed leaving the work area, site activities were temporarily halted while monitoring continued. Calibration of the VOC and PM₁₀ instruments occurred in accordance with each of the equipment manufacturer's calibration and quality assurance requirements. The VOC and PM₁₀ instruments were calibrated daily and calibrations were recorded in the field activity logbook. Anomalies observed during air monitoring were noted and addressed on-site. Data from air monitoring was archived for review. There were minimal exceedances during cleaning activities (see Appendix G). The exceedances recorded were attributed to smoke filling the PTP building as a result of using a hot pressure washer which set off the air monitor near the work zone (solved by relocating hot pressure washer), and spray/mist generated from cleaning of the wall near the door entering the work zone and setting off the monitor (solved by temporary poly-sheeting placed over the doorway while cleaning took place). The upwind and downwind air monitoring set ups were relocated daily, depending on wind direction. The work zone set up stayed in the same location throughout the entire process.

6.0 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Site-specific FSP and QAPP were developed for the proposed work and were included in the Work Plan. The Quality Assurance/Quality Control Program (QA/QC) program was designed to maximize the quality and validity of the data generated during the decommissioning activities. The FSP and QAPP describe detailed sampling and analytical procedures, as well as any necessary QA/QC sampling required for the project. Adherence to the procedures in the FSP and QAPP allows for valid and usable analytical data.

6.1 Quality Assurance/Quality Control (QA/QC)

The QA/QC included collection of a field duplicate, matrix spike, and matrix spike duplicate samples. Laboratory analytical procedures adhered to NYSDEC ASP and/or to USEPA SW-846 methodologies as appropriate. The laboratory adhered to the requirements of NYSDEC ASP 2005 in conjunction with the Contract Laboratory Protocol.

Complete ASP category B/Tier IV QA/QC data deliverables were provided by ALS Environmental for the confirmation rinsate sampling analytical reports. A Data Usability Summary Report (DUSR) was developed from the Category B

data packages. These packages were reviewed for completeness and the DUSR has been provided in Appendix H. The project QA/QC officer reviewed the data packages to confirm completeness of the ASP Category B deliverables to prepare a Data Usability Summary Report (DUSR) in accordance with NYSDEC guidelines. NYSDEC approved a third party validator from Alpha GeoScience to complete the DUSR in an e-mail dated January 25, 2016. The QA/QC officer was independent from the analytical laboratory.

7.0 OBSERVATIONS AND LIMITATIONS

Throughout the tank cleaning process, T-110 and vessels 1 and 2 were visually inspected for cracks, fissures, missing seals, deterioration, patches, and overall cleanliness. Associated piping going into T-110 and vessels 1 and 2 was also visually inspected during cleaning activities for signs of leakage or breaks in the pipe lines. Photos taken are presented in a Photo Log located in Appendix C. No observations were made during the final inspection that would indicate an issue with the integrity of the AST, vessels, or piping systems.

The following observations were made during the decontamination activities at the PTP SWMU:

- Tank walls and floor show numerous patched areas across the walls and the entire bottom. These observations were made during initial pressure washing (when wall build-up began being washed off). The patches appeared to be epoxy or similar coating applied in layers in different areas of the tank as part of tank maintenance.
- Several minor CAMP exceedances were reported in the work zone, which were addressed by stopping work to determine the source and implementation of corrective measures to address exhaust and spray from pressure washers (determined to be the sources of the exceedances).
- During environmental media removal, a sump, was observed near the interior south wall of the tank (shown in Figure 2). The sump consisted of a 2 by 2 foot square depressed area in the floor, constructed of the same steel material used for the tank. No piping was found to be associated with the sump. Examination of the ground surface outside T-110 adjacent to the location of the sump did not show any signs of disruption.

8.0 SUMMARY

Cleaning, inspection, confirmatory sampling and waste management for T-110 and sand filter vessels at the PTP was completed April 27, 2016. All work conducted on the Site was supervised by the Site Manager and field staff to ensure adherence to the approved Work Plan.

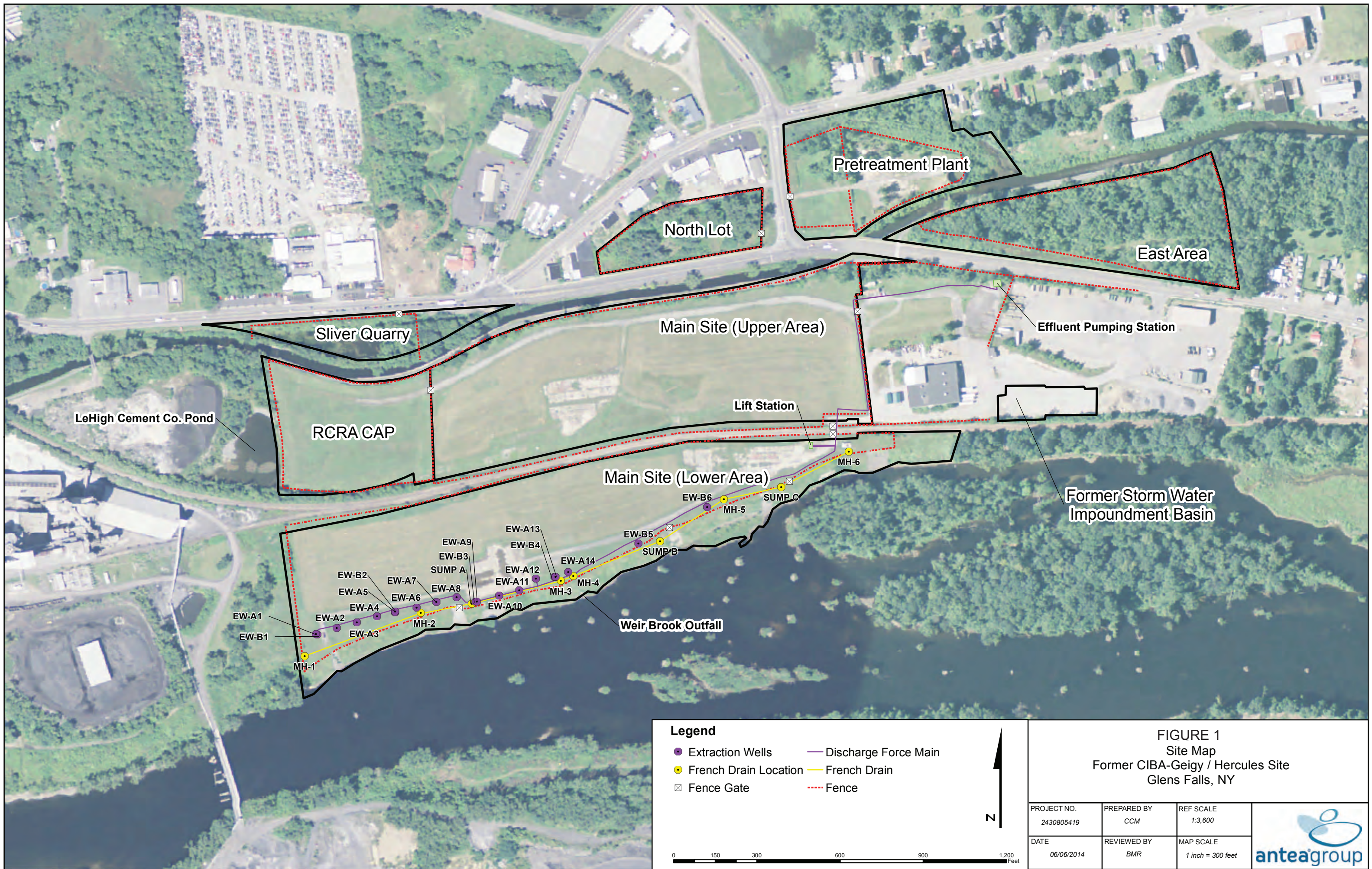


Confirmation sample results are presented in Table 1, and the dataset was approved by the NYSDEC in an e-mail sent on December 14, 2015. Successful completion of the tank and vessel cleaning activities will allow for demolition of the tank, vessels, and surrounding buildings.



Figures

- | | |
|----------|--|
| Figure 1 | Site Map |
| Figure 2 | Former Pretreatment Plant Rinsate Sampling Quadrants |



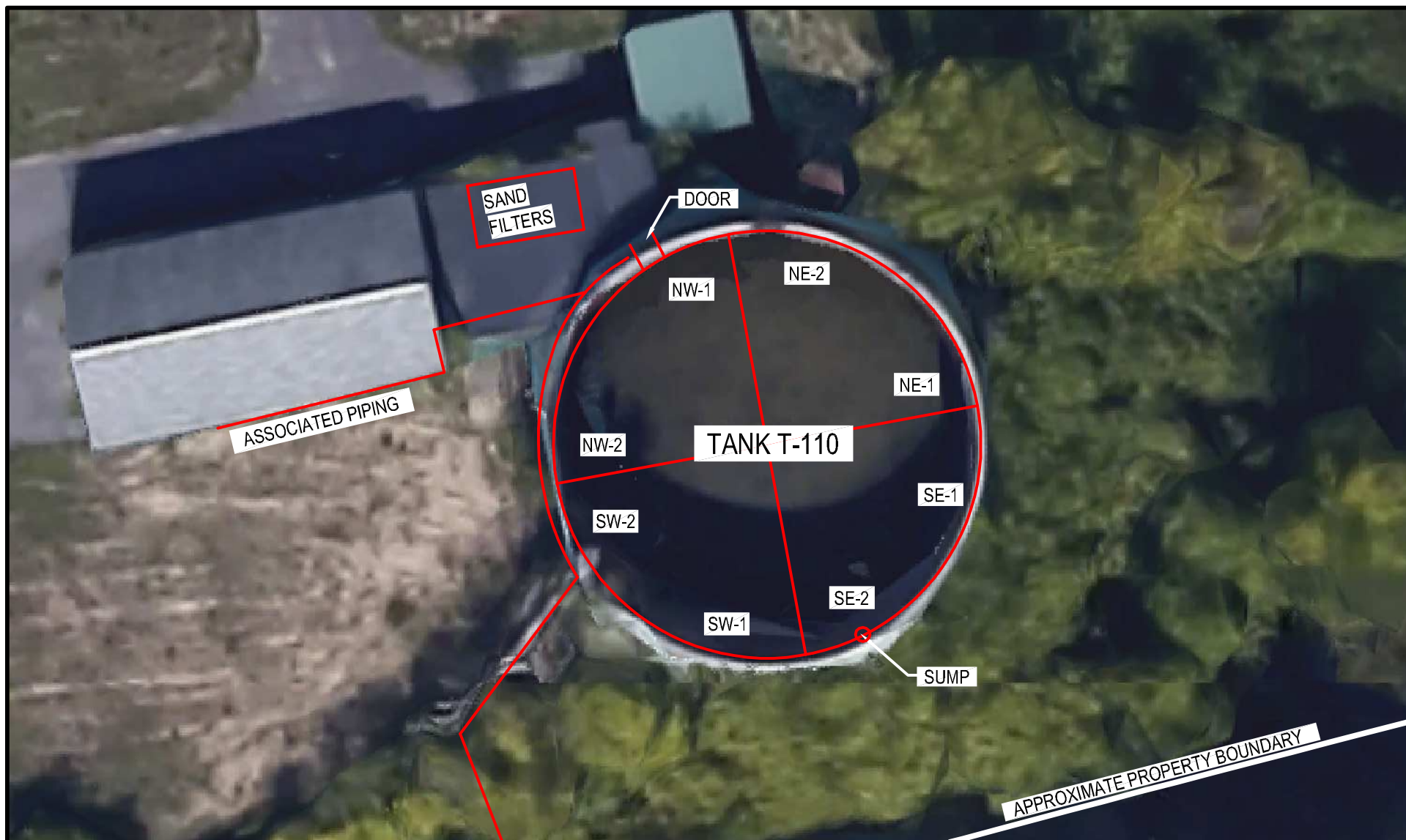


FIGURE 2
Former Pretreatment Plant AST Sample Quadrants
 Former Ciba-Geigy/Hercules Site
 Queensbury, New York

PROJECT NO. GLENSFA151	PREPARED BY CC	DRAWN BY LKO
DATE 1-25-16	REVIEWED BY CM	FILE NAME GF_Aerial 2016





Appendix A

Design Document Pretreatment Plant Process Summary Table

TABLE 10-1
MAJOR EQUIPMENT LIST (MEL)¹

ITEM	QUANTITY (and ID#)	TYPE	PURPOSE and (STATUS)**
<i>Equalization Tank</i>	1 (T-110)	Coated steel tank, 500,000-gallon total capacity, 350,000-gallon typical operating capacity	Receives influent from the GWES, provides for contaminant load equalization and allows settlement of particulates. In addition, receives recycled water from backwash operations and stores influent and backwash water during PTS shutdown for maintenance/repairs. Its large storage volume compared to the GWES pumping rate enables operation of the PTS on an intermittent, batch-treatment basis.
<i>Influent Pump</i>	2 (P-1001, P1002)	End Suction 2.5" x 3"	Transfer water through the process train at 200 gpm, at 70' TDH (1-operating, 1 spare)
<i>Chemical Addition System</i>	2 New units, CFP-1 & CFP-2	HCL and NaOH	To add a chemical prior to anion exchange to lower pH (HCL) or raise pH (NaOH). Chemical pumps are positive displacement metering pumps, 100:1 turndown ratio, 100 psig.
<i>Sand Filter</i>	1 Duplex Unit (SF-1, SF-2)	IT Corporation 15 psig (maximum allowed for these non-pressure vessels), 8,000 lb. unit, 100 gpm each.	Filter particulates that did not precipitate in T-110 (350,000-gallon Equalization Tank). Backwash at 8 – 10 psid increase compared to clean units.
<i>Holding Tank And Mixer</i>	1 (T-1001) and (M1001)	New, IT, 2000-gallon, HDPE vertical, flat bottom.	Pump reservoir for P-1003 transfer to IX and MX vessels. Also, pH adjustment. (Chemtainer).
<i>IX, MX Transfer Pump</i>	1 (P-1003)	New, End Suction 2" x 3"	Transfer water through filters, anion vessels and MetallX vessels. (Goulds 3657/3757, 200 gpm @ 170' TDH – 20 HP)

** - All equipment was permanently removed from service sometime between February 2002 and November 2003.

**TABLE 10-1
MAJOR EQUIPMENT LIST (MEL)¹**

ITEM	QUANTITY (and ID#)	TYPE	PURPOSE and (STATUS)**
<i>Bag Filters</i>	2 Duplex Units (BF-1 & BF-2)	IT Corporation 150 psig, 100 gpm each pair; 200 gpm total	Filter particulates from process stream downstream of treatment media. Change bags at 8 – 10 psid increase compared to new units. (ASME Model by Rosedale.)
<i>Anion Exchange System</i>	1 Duplex Unit (IX-1, IX-2)	IT Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total	Remove sulfate from the process stream prior to metals removal. Brine regeneration on site; ASME rated, but not stamped, fiberglass vessels; top mounted motorized cycle valve. Backwash at 8 – 10 psid increase compared to clean units.
<i>Brine Tank and Eductor</i>	1 each (T- 1002)	1000-gallon storage vessel, Fiberglass	Regenerate SBA resin for sulfate removal and reuse. Eductor provides "pumpless" addition of Brine or Bleach (NaOCl) solution using city water. Bleach for cyanide rinse of anion resin.
<i>MetallX Resin Filter</i>	1 Duplex Unit (MX-1, MX-2)	IT Corporation 80 psig, 8,000 lb. unit, 100 gpm each; 200 gpm total	Remove multivalent anions from the process stream prior to discharge, last stage on WTP. No on site regeneration planned. Backwash at 8 to 10 psid increase compared to clean units.
<i>Backwash Pump And Tank</i>	1 (P-1004, T1003)	New, IT, End Suction 2" x3" 1000-g Tank, HDPE Vertical Flat	Backwash media filters to remove collected solids. (Goulds Pump No. 3657/3757 200 gpm @ 100" TDH, 10 HP)

1. This table is adapted from Table 1 prepared by IT Corporation as part of the Contractor's Pre-treatment Plan for contact –water management and treatment during construction of the CM at the site.

** - All equipment was permanently removed from service sometime between February 2002 and November 2003.



Appendix B

Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 12th Floor, Albany, NY 12233-7015
P: (518) 402-9625 | F: (518) 402-9627
www.dec.ny.gov

SEP 30 2015

James Vondracek
Ashland Inc.
5200 Blazer Parkway
Dublin, OH 43017
jevondracek@ashland.com

Mr. Stephen Havlik
BASF Corporation
227 Oak Ridge Parkway
Toms River, NJ 08755
steve.havlik@basf.com

Re: Ciba Geigy Main Plant/Pretreatment Plant
EPA ID NYD002069748
Site No.: 557011

Dear Mr. Vondracek & Mr. Havlik,

The Department has reviewed the AST Decommissioning Work Plan, dated September 23, 2015. The Department finds the plan to be acceptable. Department requests to be notified 7 days prior to field work and 15 days prior to off-site disposal of materials from the site. The off-site disposal notification shall include volume of material, analytical results and disposal facility. Please contact me if you have any questions at 518-402-9626.

Regards,



Brian Jankauskas, P.E.
Environmental Engineer II
Remedial Bureau A, Section C

ecc: John Swartwout
Laura McMahon
Christopher Meyer
Scott Recker
Mark Schumacher
Jeffrey Caputi
Arlene Lillie
File



Department of
Environmental
Conservation

From: [New York](#)
To: [Christopher Meyer](#)
Cc: [Bryan Reles](#); tsceastny@wm.com
Subject: [WMSolutions.com] Profile #115958NY has been approved
Date: Thursday, January 21, 2016 9:08:10 AM



Notice of Profile Approval: #115958NY

Profile Number:	115958NY
Waste Stream:	Environmental Derived Waste
Generator Name:	Hercules Inc. and Ciba Corporation
Disposal Site:	High Acres Landfill
Expiration Date:	01/18/2017

Dear Bryan Reles,

We are pleased to inform you that Profile 115958NY has been approved by our New York Technical Service Center. Your Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your WMSolutions.com account.

Please feel free to email us at TSCEastNY@wm.com or call 800-963-4776 with any questions.

Thank you for choosing Waste Management.

New York
1550 Balmer Road
Model City, NY 14107
Phone: 716-286-1550
TSCEastNY@wm.com

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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October 23, 2015

Mr. Mark J. Schumacher
Senior Project Manager
Antea USA, Inc.
5788 Widewaters Parkway, 2nd Floor
Syracuse, NY 13214

Re: "Contained-In" Determination Request for Wastewater
Former CIBA-GEIGY/HERCULES Site
89 Lower Warren Street, Glens Falls, NY 12804

Dear Mr. Schumacher:

We have reviewed the Water analytical data submitted with your October 21, 2015 request for a "Contained-in" determination for Wastewater.

Based on our review, Water (Data ID: PTPAST, FRAC-1 and FRAC-3) met "contained-in" groundwater action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the wastewater (Data ID: PTPAST, FRAC-1 and FRAC-3) stored on 2 Frac Tanks, approximately 38,000 gallons of water, do not have to be managed as hazardous waste and can be transported off site as non-regulated water to the City of Glenn Falls POTW, for processing.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,



Henry Wilkie
Environmental Engineer 1
Remedial Section B

ecc: B. Jankauskas



Department of
Environmental
Conservation

Water & Sewer Department Telephone: [518] 761-3850
24 Hr. Water & Sewer Emergencies: [518] 761-3857

• Fax: [518] 761-3862
• www.cityofglensfalls.com

Mr. Mark Schumacher, Senior Project Manager
Antea USA, Inc.
5788 Widewaters Parkway, 2nd Floor
Syracuse, NY 13214 USA

Subject: Receipt of Waste Water from dewatering PTP AST

Mr. Schumacher:

Based on the analyses submitted via email on 10/23/2015, the material in "Frac Tanks" numbers one and three is acceptable for discharge to the Glens Falls WWTP.

Please contact me with any questions you may have regarding this.

Sincerely,



Lawrence Glasheen, Chief Operator
Glens Falls WWTP
2 Shermantown Road
Glens Falls 12801
Telephone: (518) 761-3850 ext 112
Telefax: (518) 761-3862
Email: lglasheen@cityofglensfalls.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A
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November 3, 2015

Mr. Mark J. Schumacher
Senior Project Manager
Antea USA, Inc.
5788 Widewaters Parkway, 2nd Floor
Syracuse, NY 13214

Re: "Contained-In" Determination Request for Environmental Media
Former CIBA-GEIGY/HERCULES Site
89 Lower Warren Street, Glens Falls, NY 12804

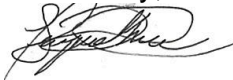
Dear Mr. Schumacher:

We have reviewed the analytical data submitted with your October 21, 2015 request for a "Contained-in" determination for Environmental Media (bio-accumulation that has occurred over time. The Above Storage Tank (AST) is open-topped tank. As a result, a portion of the recovered mass is the result of the breakdown and decomposition of leaves and other organic matter).

Based on our review, the Environmental Media (Data ID: SLUDGE 1) met "contained-in" soil/sediment action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the Environmental Media from the AST, between 15-25 tons, do not have to be managed as hazardous waste and can be transported off site to the High Acres Landfill located in Fairport, NY, for disposal.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,



Henry Wilkie
Environmental Engineer 1
Remedial Section B

ecc: B. Jankauskas



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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DEC 17 2015

James Vondracek
Ashland Inc.
5200 Blazer Parkway
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jevondracek@ashland.com

Mr. Stephen Havlik
BASF Corporation
227 Oak Ridge Parkway
Toms River, NJ 08755
steve.havlik@basf.com

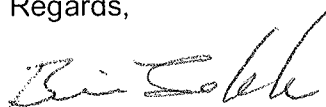
Re: Ciba Geigy Main Plant/Pretreatment Plant
EPA ID NYD002069748
Site No.: 557011

Dear Mr. Vondracek and Mr. Havlik,

The Department has reviewed the December 10, 2015, Contained-In request for the material removed from the walls during the recent cleaning of tank T-110. The Department understands the material removed from the tank is not an environmental media, as a result a contained-in determination can not be provided.

As indicated in your letter, the tank was part of the treatment train to hold wastewater generated from the main plant during site operations and later utilized during corrective measures as part of the treatment train to remove site related heavy metals from extracted groundwater. The tank historically contained material that was a listed K waste for inorganic pigments. Based on laboratory analysis provided for the material removed from the tank, some amount of hazardous waste/residue has been retained within this material. Waste derived from the treatment, storage, or disposal of listed waste is a listed waste. The Department finds that the material removed from the tank wall is derived from K waste for inorganic pigments and must be handled as a hazardous waste.

Regards,



Brian Jankauskas, P.E.
Environmental Engineer II
Remedial Bureau A, Section C

ecc: John Swartwout
Christopher Meyers
Laura McMahon



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

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December 1, 2016

Mr. Mark J. Schumacher
Senior Project Manager
Antea USA, Inc.
5788 Widewaters Parkway, 2nd Floor
Syracuse, NY 13214

Re: Frac Tank 2 (FRAC-2) Waste Determination
Ciba Geigy/Hercules Main Plant
EPA ID: NYD002069748
Site No.: 557011

Dear Mr. Schumacher:

We have reviewed the Water analytical data submitted with your November 22, 2016 request for a "Contained-in" determination for Wastewater.

Based on our review, Water (Data ID: FRAC-2) met "contained-in" groundwater action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level. Therefore, the wastewater (Data ID: FRAC-2) stored on a Frac Tank, approximately 20,000 gallons of water, do not have to be managed as hazardous waste and can be transported off site as non-regulated water to the City of Glenn Falls POTW, for processing.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,



Henry Wilkie
Environmental Engineer 1
Remedial Section B

ecc: B. Jankauskas



Appendix C

Photo Log

AST Cleaning Photographs

Index

- Photo 1 PTP Building, western end
- Photo 2 Tank-110 and above ground piping, view east
- Photo 3 Tank-110 access port and drain valve in PTP building
- Photo 4 Skid mounted sand vessels in PTP
- Photo 5 Tank-110 before dewatering.
- Photo 6 Tank-110 after dewatering, before bioaccumulation removal
- Photo 7 Tank-110 west wall prior to pressure washing
- Photo 8 Tank -110 northwest wall during cleaning
- Photo 9 Tank-110 floor after cleaning Nov. 23, 2015
- Photo 10 Tank-110 floor (left side of photo after initial clean, right side not cleaned)
- Photo 11 Tank-110 layers on floor during cleaning
- Photo 12 Tank-110 southwest wall cleaned (after rinsate sample)
- Photo 13 Bioaccumulation bin 1, prior to solidification
- Photo 14 Bioaccumulation bin 1, after dewatering and before solidification
- Photo 15 Bioaccumulation bin 2 following solidification with lime ash
- Photo 16 Vessel interior prior to cleaning
- Photo 17 Vessel interior following cleaning
- Photo 18 Blanked outlet on south side vessels
- Photo 19 Blanked piping
- Photo 20 Blanked top of vessel
- Photo 21 On-site frac tanks for water storage
- Photo 22 Chip from tank wall
- Photo 23 CAMP set up upwind
- Photo 24 Tank-110 exterior, taken facing east
- Photo 25 Tank-110 exterior, taken facing south
- Photo 26 Visual Inspection: SE-1 and SE-2
- Photo 27 Visual Inspection: SE-2
- Photo 28 Visual Inspection: SW-1 and SW-2
- Photo 29 Visual Inspection: NW-1 and NW-2
- Photo 30 Visual Inspection: NW-1
- Photo 31 Visual Inspection: NE-1 and NE-2
- Photo 32 NW wall with holes drilled along bottom
- Photo 33 Holes drilled in AST walls on NW side
- Photo 34 NE wall with holes drilled along bottom
- Photo 35 Hole drilled on NE wall



Photo 1 PTP Building, western end



Photo 2 Tank-110 and above ground piping, view east



Photo 3 Tank-110 access port and drain valve in PTP building



Photo 4 Skid mounted sand vessels in PTP



Photo 5 Tank-110 before dewatering.



Photo 6 Tank-110 after dewatering, before bioaccumulation removal

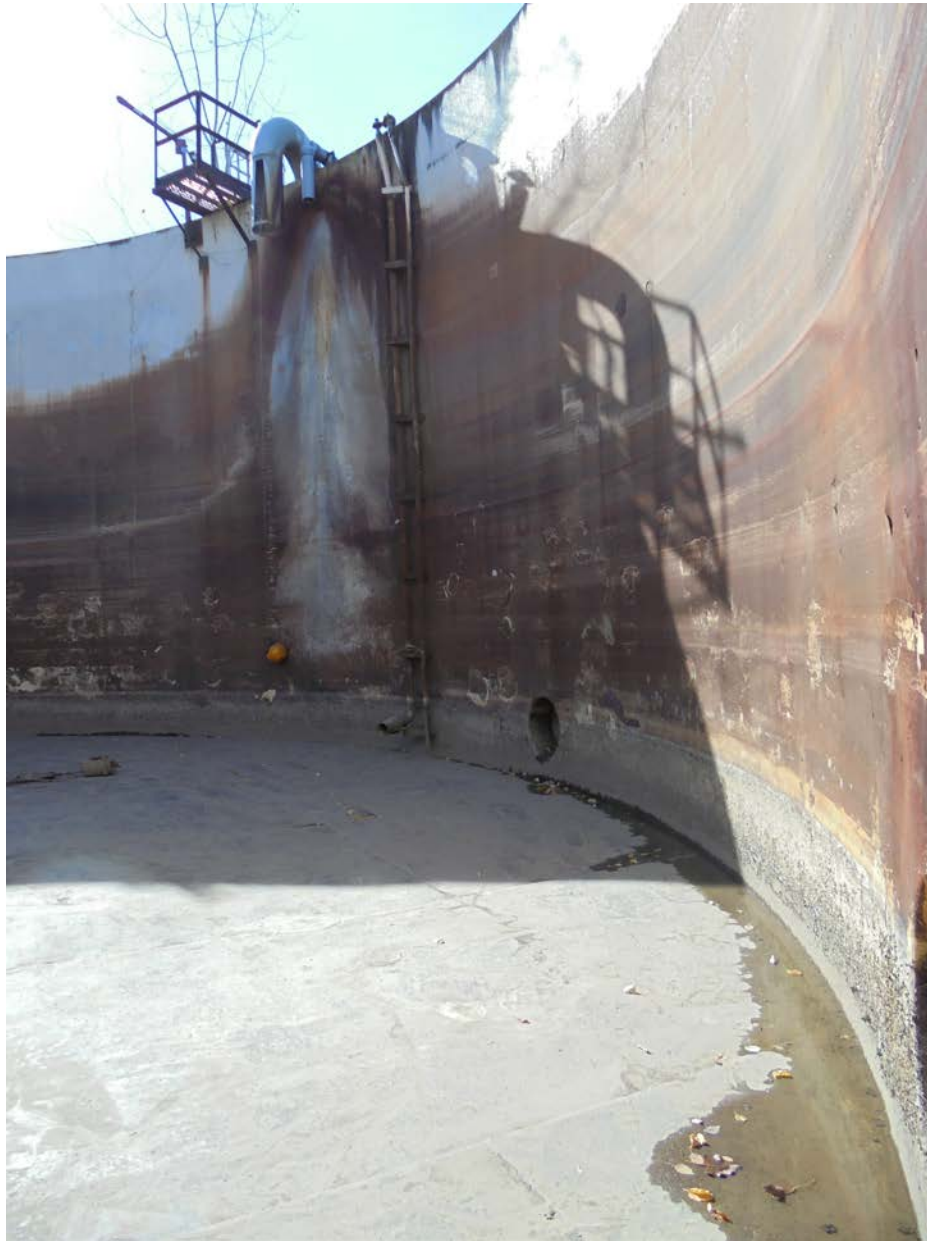


Photo 7 Tank-110 west wall prior to pressure washing



Photo 8 Tank -110 northwest wall during cleaning

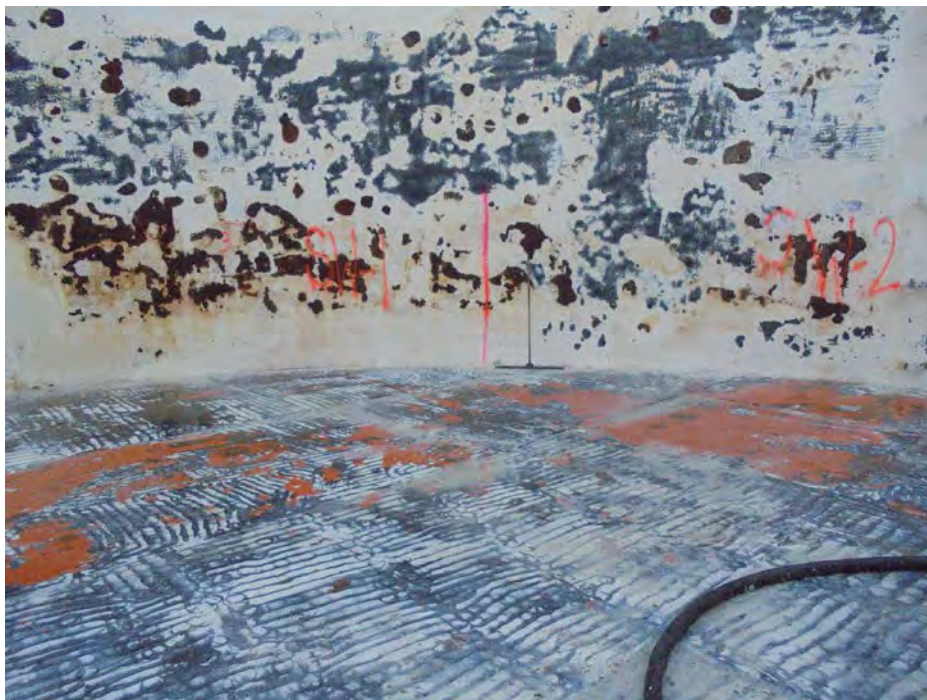


Photo 9 Tank-110 floor after cleaning Nov. 23, 2015



Photo 10 Tank-110 floor (left side of photo after initial clean, right side not cleaned)



Photo 11 Tank-110 layers on floor during cleaning



Photo 12 Tank-110 southwest wall cleaned (after rinsate sample)



Photo 13 Bioaccumulation bin 1, prior to solidification



Photo 14 Bioaccumulation bin 1, after dewatering and before solidification



Photo 15 Bioaccumulation bin 2 following solidification with lime ash



Photo 16 Vessel interior prior to cleaning



Photo 17 Vessel interior following cleaning



Photo 18 Blanked outlet on south side vessels



Photo 19 Blanked piping



Photo 20 Blanked top of vessel



Photo 21 On-site frac tanks for water storage



Photo 22 Chip from tank wall



Photo 23 CAMP set up upwind



Photo 24 Tank-110 exterior, taken facing east



Photo 25 Tank-110 exterior, taken facing south



Photo 26 Visual Inspection: SE-1 and SE-2



Photo 27 Visual Inspection: SE-2



Photo 28 Visual Inspection: SW-1 and SW-2



Photo 29 Visual Inspection: NW-1 and NW-2



Photo 30 Visual Inspection: NW-1



Photo 31 Visual Inspection: NE-1 and NE-2



Photo 32 NW wall with holes drilled along bottom



Photo 33 Holes drilled in AST walls on NW side



Photo 34 NE wall with holes drilled along bottom



Photo 35 Hole drilled on NE wall



Appendix D

Confirmatory Sample Laboratory Data



November 04, 2015

Service Request No:R1509357

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015
For your reference, these analyses have been assigned our service request number **R1509357**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1509357

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509357-001	NE-1	10/30/2015	1300
R1509357-002	TEST-2	10/30/2015	1200
R1509357-003	TEST-3	10/30/2015	1230

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: NE-1
Lab Code: R1509357-001

Service Request: R1509357
Date Collected: 10/30/15 13:00
Date Received: 10/31/15 10:55
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	ND U	mg/L	0.010	1	10/31/15 11:35	NA	
Cyanide, Total	9012B	ND U	mg/L	0.010	1	11/02/15 15:50	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Collected: 10/30/15 13:00
Date Received: 10/31/15 10:55

Sample Name: NE-1
Lab Code: R1509357-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 08:21	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:25	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:52	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 07:52	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 07:52	11/02/15	
Calcium, Total	6010C	6.0	mg/L	1.0	1	11/03/15 07:52	11/02/15	
Chromium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:52	11/02/15	
Iron, Total	6010C	0.77	mg/L	0.10	1	11/03/15 07:52	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/03/15 07:52	11/02/15	
Manganese, Total	6010C	0.039	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:26	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 07:52	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:21	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Sodium, Total	6010C	13.1	mg/L	1.0	1	11/03/15 08:21	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:52	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:52	11/02/15	
Zinc, Total	6010C	0.021	mg/L	0.020	1	11/03/15 07:52	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: TEST-2
Lab Code: R1509357-002

Service Request: R1509357
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.015	mg/L	0.010	1	10/31/15 11:36	NA	
Cyanide, Total	9012B	ND U	mg/L	0.010	1	11/02/15 15:51	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: TEST-2
Lab Code: R1509357-002

Service Request: R1509357
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 08:27	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:31	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 07:58	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 07:58	11/02/15	
Calcium, Total	6010C	7.2	mg/L	1.0	1	11/03/15 07:58	11/02/15	
Chromium, Total	6010C	6.86	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	
Iron, Total	6010C	ND U	mg/L	0.10	1	11/03/15 07:58	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Magnesium, Total	6010C	3.1	mg/L	1.0	1	11/03/15 07:58	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:28	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 07:58	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:27	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Sodium, Total	6010C	77.6	mg/L	1.0	1	11/03/15 08:27	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 07:58	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 07:58	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 07:58	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: TEST-3
Lab Code: R1509357-003

Service Request: R1509357
Date Collected: 10/30/15 12:30
Date Received: 10/31/15 10:55
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	ND U	mg/L	0.010	1	10/31/15 11:33	NA	
Cyanide, Total	9012B	0.022	mg/L	0.010	1	11/02/15 15:52	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Collected: 10/30/15 12:30
Date Received: 10/31/15 10:55

Sample Name: TEST-3
Lab Code: R1509357-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.11	mg/L	0.10	1	11/03/15 08:33	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 12:38	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Barium, Total	6010C	0.048	mg/L	0.020	1	11/03/15 08:04	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 08:04	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 08:04	11/02/15	
Calcium, Total	6010C	12.0	mg/L	1.0	1	11/03/15 08:04	11/02/15	
Chromium, Total	6010C	0.040	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 08:04	11/02/15	
Iron, Total	6010C	1.78	mg/L	0.10	1	11/03/15 08:04	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Magnesium, Total	6010C	2.5	mg/L	1.0	1	11/03/15 08:04	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:34	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 08:04	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 08:33	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Sodium, Total	6010C	4.9	mg/L	1.0	1	11/03/15 08:33	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 08:04	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 08:04	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 08:04	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1509357-MB

Service Request: R1509357
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	ND U	mg/L	0.010	1	10/31/15 11:27	NA	
Cyanide, Total	9012B	ND U	mg/L	0.010	1	11/02/15 15:36	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1509357-MB

Service Request: R1509357
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	ND U	mg/L	0.10	1	11/03/15 06:50	11/02/15	
Antimony, Total	6010C	ND U	mg/L	0.060	1	11/03/15 11:41	11/02/15	
Arsenic, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Barium, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Beryllium, Total	6010C	ND U	mg/L	0.0030	1	11/03/15 06:37	11/02/15	
Cadmium, Total	6010C	ND U	mg/L	0.0050	1	11/03/15 06:37	11/02/15	
Calcium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Chromium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Cobalt, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Copper, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Iron, Total	6010C	ND U	mg/L	0.10	1	11/03/15 06:37	11/02/15	
Lead, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Magnesium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Manganese, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Mercury, Total	7470A	ND U	mg/L	0.00020	1	11/03/15 10:03	11/02/15	
Nickel, Total	6010C	ND U	mg/L	0.040	1	11/03/15 06:37	11/02/15	
Potassium, Total	6010C	ND U	mg/L	2.0	1	11/03/15 06:50	11/02/15	
Selenium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Silver, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Sodium, Total	6010C	ND U	mg/L	1.0	1	11/03/15 06:50	11/02/15	
Thallium, Total	6010C	ND U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Vanadium, Total	6010C	ND U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Zinc, Total	6010C	ND U	mg/L	0.020	1	11/03/15 06:37	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Analyzed: 10/31/15 - 11/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509357-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0999	0.100	100	80-120
Cyanide, Total	9012B	0.0980	0.100	98	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Analyzed: 11/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509357-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.373	0.400	93	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 10/31/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: TEST-2
Lab Code: R1509357-002

Units: mg/L
Basis: NA

				Duplicate Sample R1509357- 002DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.015	0.015	0.0151	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 10/31/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: TEST-2
Lab Code: R1509357-002
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1509357-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.015	0.115	0.100	100	85-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls- Rinsate
Sample Matrix: Water

Service Request: R1509357
Date Analyzed: 11/03/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509357-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.95	2.00	97	80-120
Antimony, Total	6010C	0.483	0.500	97	80-120
Arsenic, Total	6010C	0.0404	0.040	101	80-120
Barium, Total	6010C	2.03	2.00	102	80-120
Beryllium, Total	6010C	0.0472	0.0500	94	80-120
Cadmium, Total	6010C	0.0499	0.0500	100	80-120
Calcium, Total	6010C	2.03	2.0	101	80-120
Chromium, Total	6010C	0.207	0.200	103	80-120
Cobalt, Total	6010C	0.487	0.500	97	80-120
Copper, Total	6010C	0.259	0.250	104	80-120
Iron, Total	6010C	1.04	1.00	104	80-120
Lead, Total	6010C	0.494	0.500	99	80-120
Magnesium, Total	6010C	2.03	2.0	101	80-120
Manganese, Total	6010C	0.502	0.500	100	80-120
Mercury, Total	7470A	0.000974	0.00100	97	80-120
Nickel, Total	6010C	0.508	0.500	102	80-120
Potassium, Total	6010C	18.7	20.0	94	80-120
Selenium, Total	6010C	0.838	1.01	83	80-120
Silver, Total	6010C	0.0501	0.050	100	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	1.96	2.00	98	80-120
Vanadium, Total	6010C	0.484	0.500	97	80-120
Zinc, Total	6010C	0.500	0.500	100	80-120

PAGE 1 OF 1

18 of 19



Cooler Receipt and Preservation Check Form

R1509357

5

Antea USA Inc
Queensbury, NYProject/Client Antea Folder Number _____Cooler received on 10/31/15 by: ADCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	<u>Bulk</u> Encore 5035set NA

8. Temperature Readings Date: 10/31/15 Time: 110P ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.8</u>						
Correction Factor (°C)	<u>10.5</u>						
Corrected Temp (°C)	<u>2.3°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by AD on 10/31/15 at 1110
 5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: ADCooler Breakdown: Date: 10/31/15 Time: 1140 by: AD

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies: _____

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<u>✓</u>		<u>81114</u>	<u>9/16</u>				
≤2	HNO ₃	<u>✓</u>		<u>AD226147H</u>	<u>10/16</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<u>✓</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042015-2AMW, 072715-2AMW

Other Comments: _____

PC Secondary Review: AD

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 11, 2015

Service Request No: R1509579

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 06, 2015
For your reference, these analyses have been assigned our service request number **R1509579**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Environmental

Client: Antea
Service Request No.: R1509579
Project: Glens Falls
Date Received: 11/06/15
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested, however performed on samples, NW-1 and NE-2. All matrix spike recoveries and duplicate criteria were met.

All QC criteria were met.

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1509579

<u>Lab ID</u>	<u>Client ID</u>
R1509579-001	NE-2
R1509579-002	NW-1
R1509579-003	NW-2

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: NE-2
Lab Code: R1509579-001

Service Request: R1509579
Date Collected: 11/05/15 12:50
Date Received: 11/06/15 07:50

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:46	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:46	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:46	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:46	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:46	11/07/15	
Calcium, Total	6010C	4.6	mg/L	1.0	1	11/08/15 14:46	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:46	11/07/15	
Iron, Total	6010C	0.64	mg/L	0.10	1	11/08/15 14:46	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Magnesium, Total	6010C	1.0	mg/L	1.0	1	11/08/15 14:46	11/07/15	
Manganese, Total	6010C	0.222	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:31	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:46	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 09:56	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Sodium, Total	6010C	33.1	mg/L	1.0	1	11/09/15 09:56	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:46	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:46	11/07/15	
Zinc, Total	6010C	0.029	mg/L	0.020	1	11/08/15 14:46	11/07/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: NE-2
Lab Code: R1509579-001

Service Request: R1509579
Date Collected: 11/05/15 12:50
Date Received: 11/06/15 07:50

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:14	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:13	11/09/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: NW-1
Lab Code: R1509579-002

Service Request: R1509579
Date Collected: 11/05/15 13:20
Date Received: 11/06/15 07:50

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:52	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:52	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:52	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:52	11/07/15	
Calcium, Total	6010C	4.9	mg/L	1.0	1	11/08/15 14:52	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	
Iron, Total	6010C	0.43	mg/L	0.10	1	11/08/15 14:52	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Magnesium, Total	6010C	1.1	mg/L	1.0	1	11/08/15 14:52	11/07/15	
Manganese, Total	6010C	0.215	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:33	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:52	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 10:04	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Sodium, Total	6010C	33.8	mg/L	1.0	1	11/09/15 10:04	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:52	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:52	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:52	11/07/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: NW-1
Lab Code: R1509579-002

Service Request: R1509579
Date Collected: 11/05/15 13:20
Date Received: 11/06/15 07:50

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:17	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:14	11/09/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: NW-2
Lab Code: R1509579-003

Service Request: R1509579
Date Collected: 11/05/15 14:00
Date Received: 11/06/15 07:50

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 15:21	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 15:21	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 15:21	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 15:21	11/07/15	
Calcium, Total	6010C	5.1	mg/L	1.0	1	11/08/15 15:21	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	
Iron, Total	6010C	0.29	mg/L	0.10	1	11/08/15 15:21	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Magnesium, Total	6010C	1.1	mg/L	1.0	1	11/08/15 15:21	11/07/15	
Manganese, Total	6010C	0.198	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:34	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 15:21	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 10:38	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Sodium, Total	6010C	33.1	mg/L	1.0	1	11/09/15 10:38	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 15:21	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 15:21	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 15:21	11/07/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: NW-2
Lab Code: R1509579-003

Service Request: R1509579
Date Collected: 11/05/15 14:00
Date Received: 11/06/15 07:50

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:18	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:15	11/09/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R1509579-MB

Service Request: R1509579
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:34	11/07/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/08/15 14:34	11/07/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/08/15 14:34	11/07/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/08/15 14:34	11/07/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:34	11/07/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/08/15 14:34	11/07/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:34	11/07/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 07:55	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/08/15 14:34	11/07/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/09/15 09:42	11/07/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/09/15 09:42	11/07/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/08/15 14:34	11/07/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/08/15 14:34	11/07/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/08/15 14:34	11/07/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1509579-MB

Service Request: R1509579
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/06/15 09:12	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/10/15 12:08	11/09/15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Analyzed: 11/08/15 - 11/09/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509579-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.75	2.00	87	80-120
Antimony, Total	6010C	0.448	0.500	90	80-120
Arsenic, Total	6010C	0.0353	0.040	88	80-120
Barium, Total	6010C	1.91	2.00	96	80-120
Beryllium, Total	6010C	0.0437	0.0500	87	80-120
Cadmium, Total	6010C	0.0452	0.0500	90	80-120
Calcium, Total	6010C	1.96	2.0	98	80-120
Chromium, Total	6010C	0.190	0.200	95	80-120
Cobalt, Total	6010C	0.455	0.500	91	80-120
Copper, Total	6010C	0.233	0.250	93	80-120
Iron, Total	6010C	0.932	1.00	93	80-120
Lead, Total	6010C	0.470	0.500	94	80-120
Magnesium, Total	6010C	1.77	2.0	88	80-120
Manganese, Total	6010C	0.462	0.500	92	80-120
Mercury, Total	7470A	0.000966	0.00100	97	80-120
Nickel, Total	6010C	0.472	0.500	94	80-120
Potassium, Total	6010C	18.6	20.0	93	80-120
Selenium, Total	6010C	0.855	1.01	85	80-120
Silver, Total	6010C	0.0447	0.050	89	80-120
Sodium, Total	6010C	19.3	20.0	96	80-120
Thallium, Total	6010C	1.87	2.00	93	80-120
Vanadium, Total	6010C	0.451	0.500	90	80-120
Zinc, Total	6010C	0.473	0.500	95	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Analyzed: 11/06/15 - 11/10/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509579-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0964	0.100	96	80-120
Cyanide, Total	9012B	0.102	0.100	102	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Analyzed: 11/10/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509579-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.397	0.400	99	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Collected: 11/05/15
Date Received: 11/06/15
Date Analyzed: 11/08/15 - 11/09/15

Matrix Spike Summary
Inorganic Parameters

Sample Name: NW-1
Lab Code: R1509579-002

Units: mg/L
Basis: NA

Matrix Spike
R1509579-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	0.10	1.78	2.00	89	75-125
Antimony, Total	6010C	0.060	0.462	0.500	92	75-125
Arsenic, Total	6010C	0.010	0.036	0.040	90	75-125
Barium, Total	6010C	0.020	1.95	2.00	97	75-125
Beryllium, Total	6010C	0.0030	0.0454	0.0500	91	75-125
Cadmium, Total	6010C	0.0050	0.0455	0.0500	91	75-125
Calcium, Total	6010C	4.9	6.4	2.0	76	75-125
Chromium, Total	6010C	0.010	0.192	0.200	96	75-125
Cobalt, Total	6010C	0.050	0.471	0.500	94	75-125
Copper, Total	6010C	0.020	0.239	0.250	95	75-125
Iron, Total	6010C	0.43	1.33	1.00	90	75-125
Lead, Total	6010C	0.050	0.479	0.500	96	75-125
Magnesium, Total	6010C	1.1	2.8	2.0	85	75-125
Manganese, Total	6010C	0.215	0.672	0.500	91	75-125
Nickel, Total	6010C	0.040	0.486	0.500	97	75-125
Potassium, Total	6010C	2.0	19.3	20.0	97	75-125
Selenium, Total	6010C	0.010	0.893	1.01	88	75-125
Silver, Total	6010C	0.010	0.045	0.050	91	75-125
Sodium, Total	6010C	33.8	50.9	20.0	86	75-125
Thallium, Total	6010C	0.010	1.85	2.00	92	75-125
Vanadium, Total	6010C	0.050	0.461	0.500	92	75-125
Zinc, Total	6010C	0.020	0.494	0.500	99	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference: 15-0000353529 rev 00

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Collected: 11/05/15
Date Received: 11/06/15
Date Analyzed: 11/08/15 - 11/09/15

Replicate Sample Summary
Inorganic Parameters

Sample Name: NW-1
Lab Code: R1509579-002

Units: mg/L
Basis: NA

Duplicate Sample R1509579-002DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Aluminum, Total	6010C	0.10	0.10 U	0.10 U	NC	NC	20
Antimony, Total	6010C	0.060	0.060 U	0.060 U	NC	NC	20
Arsenic, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Barium, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20
Beryllium, Total	6010C	0.0030	0.0030 U	0.0030 U	NC	NC	20
Cadmium, Total	6010C	0.0050	0.0050 U	0.0050 U	NC	NC	20
Calcium, Total	6010C	1.0	4.9	4.6	4.73	6	20
Chromium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Cobalt, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Copper, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20
Iron, Total	6010C	0.10	0.43	0.41	0.422	3	20
Lead, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Magnesium, Total	6010C	1.0	1.1	1.0	1.06	6	20
Manganese, Total	6010C	0.010	0.215	0.201	0.208	7	20
Nickel, Total	6010C	0.040	0.040 U	0.040 U	NC	NC	20
Potassium, Total	6010C	2.0	2.0 U	2.0 U	NC	NC	20
Selenium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Silver, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Sodium, Total	6010C	1.0	33.8	32.3	33.0	4	20
Thallium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Vanadium, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Zinc, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579
Date Collected: 11/05/15
Date Received: 11/06/15
Date Analyzed: 11/6/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: NE-2
Lab Code: R1509579-001
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1509579-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.010 U	0.103	0.100	103	85-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509579**Date Collected:** 11/05/15**Date Received:** 11/06/15**Date Analyzed:** 11/06/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: NE-2**Units:** mg/L**Lab Code:** R1509579-001**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1509579-001DUP Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference:15-0000353529 rev 00



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33202

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager		Report CC		PRESERVATIVE		NUMBER OF CONTAINERS		METALS, TOTAL TAL LIST (List in comments below)		METALS, DISSOLVED (List in comments below)		HA Chrome 7196 Total Cyanide 90128		PRESERVATIVE KEY	
Company Address		Company Phone		GCMS VOAS 8260 ± 624 CLP		GCMS VOAS 8270 ± 825		GC VOAS 8021 ± 801/802		PCB 8081 ± 808		PCB 8082 ± 808		0 NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other	
Glens Falls		5788 Widenwaters Ferry Rd, Syracuse, NY 13214		Email: carolin.clemmens@antecgroup.com		Carolin Clemmens		11/5/15 12:50		Water		3			
NAVY Schumacher		e-mail: mark.schumacher@antecgroup.com		FOR OFFICE USE ONLY LAB ID <td colspan="2">DATE <td colspan="2">SAMPLING TIME <td colspan="2">MATRIX <td colspan="2"></td> <td colspan="2"></td> </td></td></td>		DATE <td colspan="2">SAMPLING TIME <td colspan="2">MATRIX <td colspan="2"></td> <td colspan="2"></td> </td></td>		SAMPLING TIME <td colspan="2">MATRIX <td colspan="2"></td> <td colspan="2"></td> </td>		MATRIX <td colspan="2"></td> <td colspan="2"></td>					
315-552-9832		Carolin Clemmens		11/5/15 13:20		Water		3							
Carolin Clemmens		11/5/15 14:00		Water		3									
Antec Group		11/5/15 @ 14:20													
Firm		Date/Time													
Signature		Signature													
Printed Name		Printed Name													
Firm		Firm													
Date/Time		Date/Time													
11/5/15 14:20		11/5/15 14:20													
See QAPP <input type="checkbox"/>		STATE WHERE SAMPLES WERE COLLECTED		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY	
NY		NY		NY		NY		NY		NY		NY		NY	
Carolin Clemmens		Carolin Clemmens		Carolin Clemmens		Carolin Clemmens		Carolin Clemmens		Carolin Clemmens		Carolin Clemmens		Carolin Clemmens	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20	
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Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20		11/5/15 14:20	
Signature		Signature													



Cooler Receipt and Preservation

R1509579

5

Antex USA Inc
Queensbury, NYProject/Client Antex Folder Number _____Cooler received on 11/4/15 by QCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="radio"/> NA

8. Temperature Readings Date: 11/4/15 Time: 0800 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.0</u>						
Correction Factor (°C)	<u>+0.5</u>						
Corrected Temp (°C)	<u>3.5°</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by Q on 11/4/15 at 0803
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: ARCooler Breakdown: Date: 11/8/15 Time: 0814 by: MPS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes=All samples OK
≥12	NaOH	<input checked="" type="checkbox"/>		<u>81114</u>	<u>9/16</u>					
≤2	HNO ₃	<input checked="" type="checkbox"/>		<u>BDB326474</u>	<u>10/16</u>					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For CN Phenol and 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						No=Samples were preserved at The lab as listed
	Na ₂ S ₂ O ₃	-	-							PM OK to Adjust:
	ZnAcetate	-	-							
	HCl	**	**							

**Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042015-24411, 672115-2440
Other Comments:7196(3)11/5/151250-1400PC Secondary Review: AR

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r9.doc

9/24/15



November 19, 2015

Service Request No:R1509909

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 14, 2015
For your reference, these analyses have been assigned our service request number **R1509909**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1509909

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509909-001	SE-1	11/13/2015	1300
R1509909-002	SE-2	11/13/2015	1328

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SE-1
Lab Code: R1509909-001

Service Request: R1509909
Date Collected: 11/13/15 13:00
Date Received: 11/14/15 11:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 11:00	11/17/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Collected: 11/13/15 13:00
Date Received: 11/14/15 11:00

Sample Name: SE-1
Lab Code: R1509909-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:50	11/15/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/17/15 20:38	11/15/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/17/15 08:50	11/15/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/17/15 08:50	11/15/15	
Calcium, Total	6010C	6.0	mg/L	1.0	1	11/17/15 12:49	11/15/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 12:49	11/15/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	
Iron, Total	6010C	0.60	mg/L	0.10	1	11/17/15 08:50	11/15/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/17/15 08:50	11/15/15	
Manganese, Total	6010C	0.056	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/18/15 11:34	11/17/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/17/15 08:50	11/15/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/17/15 12:49	11/15/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Sodium, Total	6010C	19.8	mg/L	1.0	1	11/17/15 12:49	11/15/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:50	11/15/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:50	11/15/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:50	11/15/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SE-2
Lab Code: R1509909-002

Service Request: R1509909
Date Collected: 11/13/15 13:28
Date Received: 11/14/15 11:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 11:23	11/17/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Collected: 11/13/15 13:28
Date Received: 11/14/15 11:00

Sample Name: SE-2
Lab Code: R1509909-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:56	11/15/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/17/15 20:43	11/15/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/17/15 08:56	11/15/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/17/15 08:56	11/15/15	
Calcium, Total	6010C	6.1	mg/L	1.0	1	11/17/15 12:56	11/15/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 12:56	11/15/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	
Iron, Total	6010C	0.61	mg/L	0.10	1	11/17/15 08:56	11/15/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Magnesium, Total	6010C	1.5	mg/L	1.0	1	11/17/15 08:56	11/15/15	
Manganese, Total	6010C	0.062	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/18/15 11:36	11/17/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/17/15 08:56	11/15/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/17/15 12:56	11/15/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Sodium, Total	6010C	20.1	mg/L	1.0	1	11/17/15 12:56	11/15/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:56	11/15/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:56	11/15/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:56	11/15/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1509909-MB

Service Request: R1509909
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/14/15 11:25	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/18/15 10:49	11/17/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R1509909-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:33	11/15/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/17/15 20:20	11/15/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:33	11/15/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:33	11/15/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/17/15 08:33	11/15/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/17/15 08:33	11/15/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/17/15 12:18	11/15/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 12:18	11/15/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:33	11/15/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:33	11/15/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/17/15 08:33	11/15/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:33	11/15/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/17/15 08:33	11/15/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:33	11/15/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/18/15 11:10	11/17/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/17/15 08:33	11/15/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/17/15 12:18	11/15/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:33	11/15/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:33	11/15/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/17/15 12:18	11/15/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/17/15 08:33	11/15/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/17/15 08:33	11/15/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/17/15 08:33	11/15/15	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909**Date Collected:** 11/13/15**Date Received:** 11/14/15**Date Analyzed:** 11/14/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SE-1
Lab Code: R1509909-001

Units: mg/L**Basis:** NA

				Duplicate Sample R1509909- 001DUP Result			
Analyte Name	Analysis Method	MRL	Sample Result		Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Collected: 11/13/15
Date Received: 11/14/15
Date Analyzed: 11/14/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: SE-1
Lab Code: R1509909-001
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1509909-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.010 U	0.101	0.100	101	85-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Analyzed: 11/14/15 - 11/18/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509909-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.101	0.100	101	80-120
Cyanide, Total	9012B	0.102	0.100	102	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909**Date Analyzed:** 11/18/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R1509909-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.395	0.400	99	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909**Date Analyzed:** 11/18/15**Lab Control Sample Summary****Inorganic Parameters****Units:**mg/L**Basis:**NA**Lab Control Sample**

R1509909-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	0.000991	0.00100	99	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509909
Date Analyzed: 11/17/15

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample R1509909-LCS2					Duplicate Lab Control Sample R1509909-DLCS2					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum, Total	6010C	1.80	2.00	90	1.85	2.00	93	80-120	3	20
Antimony, Total	6010C	0.487	0.500	97	0.466	0.500	93	80-120	4	20
Arsenic, Total	6010C	0.0436	0.040	109	0.0463	0.040	116	80-120	6	20
Barium, Total	6010C	2.07	2.00	104	2.15	2.00	108	80-120	4	20
Beryllium, Total	6010C	0.0477	0.0500	95	0.0494	0.0500	99	80-120	4	20
Cadmium, Total	6010C	0.0500	0.0500	100	0.0519	0.0500	104	80-120	4	20
Calcium, Total	6010C	2.00	2.0	100	2.01	2.0	100	80-120	<1	20
Chromium, Total	6010C	0.209	0.200	104	0.211	0.200	105	80-120	<1	20
Cobalt, Total	6010C	0.506	0.500	101	0.522	0.500	104	80-120	3	20
Copper, Total	6010C	0.260	0.250	104	0.268	0.250	107	80-120	3	20
Iron, Total	6010C	1.05	1.00	105	1.08	1.00	108	80-120	3	20
Lead, Total	6010C	0.516	0.500	103	0.538	0.500	108	80-120	4	20
Magnesium, Total	6010C	2.02	2.0	101	2.07	2.0	104	80-120	3	20
Manganese, Total	6010C	0.513	0.500	103	0.532	0.500	106	80-120	4	20
Nickel, Total	6010C	0.523	0.500	105	0.543	0.500	109	80-120	4	20
Potassium, Total	6010C	21.0	20.0	105	21.0	20.0	105	80-120	<1	20
Selenium, Total	6010C	0.933	1.01	92	0.971	1.01	96	80-120	4	20
Silver, Total	6010C	0.0518	0.050	104	0.0538	0.050	108	80-120	4	20
Sodium, Total	6010C	21.7	20.0	109	21.3	20.0	107	80-120	2	20
Thallium, Total	6010C	1.94	2.00	97	2.02	2.00	101	80-120	4	20
Vanadium, Total	6010C	0.479	0.500	96	0.496	0.500	99	80-120	4	20
Zinc, Total	6010C	0.515	0.500	103	0.536	0.500	107	80-120	4	20



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33204

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name Glens Falls		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																							
Project Manager Mark Schumacher		Report CC		PRESERVATIVE																																							
Company/Address 5785 Wildwaters Parkway, 2nd Floor (Amesbury), Syracuse, NY 13214																																											
Email: Mark.Schumacher@antagroup.com																																											
Phone # 315-263-1183		Email Mark.Schumacher@antagroup.com																																									
Sampler's Signature By RLs		Sampler's Printed Name Byron Reles																																									
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX		NUMBER OF CONTAINERS																																	
SE-1				11/13/2015		1300		Water		<input type="checkbox"/> GC/MS VOAs o 8260 o 624 o CLP																																	
SE-2				11/13/2015		1300		Water		<input type="checkbox"/> GC/MS SVOAs o 8270 o 625																																	
										<input type="checkbox"/> GC VOAs o 8021 o 601/602																																	
										<input type="checkbox"/> PESTICIDES o 8081 o 608																																	
										<input type="checkbox"/> PCBs o 8082 o 608																																	
										<input type="checkbox"/> METALS, TOTAL (List in comments below)																																	
										<input type="checkbox"/> METALS, DISSOLVED (List in comments below)																																	
										<input type="checkbox"/> Total Cyanide																																	
										<input type="checkbox"/> Hex Chrome																																	
										<input type="checkbox"/> Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other																																	
										REMARKS/ ALTERNATE DESCRIPTION																																	
SPECIAL INSTRUCTIONS/COMMENTS Metals - Category B deliverable due in normal time frame. - electronic data due as a standard data package for all analysis in 3 day TAT (due Wednesday 11/18/2015)														TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE 11/18/2015										REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results - QC and Calibration Summaries IV. Data Validation Report with Raw Data										INVOICE INFORMATION PO # Glens Falls BILL TO Ashland									
STATE WHERE SAMPLES WERE COLLECTED - New York				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY																							
Signature By RLs				Signature By RLs				Signature By RLs				Signature By RLs				Signature By RLs				Signature By RLs																							
Printed Name Byron Reles				Printed Name Byron Reles				Printed Name Byron Reles				Printed Name Byron Reles				Printed Name Byron Reles				Printed Name Byron Reles																							
Firm Antea Group				Firm Antea Group				Firm Antea Group				Firm Antea Group				Firm Antea Group				Firm Antea Group																							
Date/Time 11/13/2015 14:06				Date/Time 11/13/2015 14:06				Date/Time 11/13/2015 14:06				Date/Time 11/13/2015 14:06				Date/Time 11/13/2015 14:06				Date/Time 11/13/2015 14:06																							



Cooler Receipt and Preservation

R1509909

5

Antea USA Inc
Queensbury, NYProject/Client Antea Group Folder Number _____Cooler received on 11-14-15 by: MECOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

8. Temperature Readings Date: 11-14-15 Time: 11:11 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.4</u>							
Correction Factor (°C)	<u>0</u>							
Corrected Temp (°C)	<u>2.4</u>							
Within 0-6°C?	<u>Y</u>	N	Y	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by ME on 11-14-15 at 11:15
 5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: ARCooler Breakdown: Date: 11/16/15 Time: 0931 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
>12	NaOH	<u>X</u>		<u>8/1/14</u>	<u>9/1/16</u>				
<2	HNO ₃								
<2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<u>X</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 072-715-2440

Other Comments:

2 G+67196
 11-13-15
 13:00-13:28

PC Secondary Review: AR

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 30, 2015

Service Request No:R1510060

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 19, 2015
For your reference, these analyses have been assigned our service request number **R1510060**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1510060

<u>Lab ID</u>	<u>Client ID</u>
R1510060-001	SW-1
R1510060-002	SW-2

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1 / 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SW-1
Lab Code: R1510060-001

Service Request: R1510060
Date Collected: 11/18/15 13:00
Date Received: 11/19/15 07:45
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 09:00	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:08	11/20/15	

ALS Group USA, Corp.

dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SW-1
Lab Code: R1510060-001

Service Request: R1510060
Date Collected: 11/18/15 13:00
Date Received: 11/19/15 07:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:29	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:29	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:29	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:29	11/19/15	
Calcium, Total	6010C	5.9	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	
Iron, Total	6010C	0.93	mg/L	0.10	1	11/24/15 11:29	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Magnesium, Total	6010C	1.3	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Manganese, Total	6010C	0.181	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 12:56	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:29	11/19/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:29	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Sodium, Total	6010C	14.2	mg/L	1.0	1	11/24/15 11:29	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:29	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:29	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:29	11/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R1510060-002

Service Request: R1510060
Date Collected: 11/18/15 13:40
Date Received: 11/19/15 07:45
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 09:01	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:10	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R1510060-002

Service Request: R1510060
Date Collected: 11/18/15 13:40
Date Received: 11/19/15 07:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:35	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:35	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:35	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:35	11/19/15	
Calcium, Total	6010C	6.1	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	
Iron, Total	6010C	0.54	mg/L	0.10	1	11/24/15 11:35	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Manganese, Total	6010C	0.235	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 13:01	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:35	11/19/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:35	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Sodium, Total	6010C	16.0	mg/L	1.0	1	11/24/15 11:35	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:35	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:35	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:35	11/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1510060-MB

Service Request: R1510060
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/19/15 08:51	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/21/15 10:03	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1510060-MB

Service Request: R1510060
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:18	11/19/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/24/15 11:18	11/19/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/24/15 11:18	11/19/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/24/15 11:18	11/19/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/24/15 11:18	11/19/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/23/15 12:35	11/23/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/24/15 11:18	11/19/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/24/15 11:18	11/19/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/24/15 11:18	11/19/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/24/15 11:18	11/19/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/24/15 11:18	11/19/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/24/15 11:18	11/19/15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Analyzed: 11/19/15 - 11/21/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510060-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0958	0.100	96	80-120
Cyanide, Total	9012B	0.0991	0.100	99	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060

Date Analyzed: 11/21/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample
R1510060-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.385	0.400	96	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/21/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SW-1
Lab Code: R1510060-001

Units: mg/L
Basis: NA

Duplicate Sample
R1510060-

Analyte Name	Analysis Method	MRL	Sample Result	001DUP Result	Average	RPD	RPD Limit
Cyanide, Total	9012B	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/21/15
Date Extracted: 11/20/15

Matrix Spike Summary
Cyanide, Total

Sample Name: SW-1
Lab Code: R1510060-001
Analysis Method: 9012B
Prep Method: Method

Units: mg/L
Basis: NA

Matrix Spike
R1510060-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	0.010 U	0.105	0.100	105	77-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Analyzed: 11/23/15 - 11/24/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510060-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.97	2.00	98	80-120
Antimony, Total	6010C	0.476	0.500	95	80-120
Arsenic, Total	6010C	0.0446	0.040	112	80-120
Barium, Total	6010C	2.12	2.00	106	80-120
Beryllium, Total	6010C	0.0495	0.0500	99	80-120
Cadmium, Total	6010C	0.0521	0.0500	104	80-120
Calcium, Total	6010C	2.09	2.0	104	80-120
Chromium, Total	6010C	0.210	0.200	105	80-120
Cobalt, Total	6010C	0.523	0.500	105	80-120
Copper, Total	6010C	0.266	0.250	107	80-120
Iron, Total	6010C	1.05	1.00	105	80-120
Lead, Total	6010C	0.519	0.500	104	80-120
Magnesium, Total	6010C	2.02	2.0	101	80-120
Manganese, Total	6010C	0.518	0.500	104	80-120
Mercury, Total	7470A	0.000906	0.00100	91	80-120
Nickel, Total	6010C	0.529	0.500	106	80-120
Potassium, Total	6010C	19.1	20.0	95	80-120
Selenium, Total	6010C	1.01	1.01	100	80-120
Silver, Total	6010C	0.0518	0.050	104	80-120
Sodium, Total	6010C	20.3	20.0	102	80-120
Thallium, Total	6010C	2.02	2.00	101	80-120
Vanadium, Total	6010C	0.499	0.500	100	80-120
Zinc, Total	6010C	0.524	0.500	105	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/23/15

Replicate Sample Summary
Inorganic Parameters

Sample Name: SW-1
Lab Code: R1510060-001

Units: mg/L
Basis: NA

Duplicate Sample R1510060- 001DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Mercury, Total	7470A	0.00020	0.00020 U	0.00020 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510060
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/23/15
Date Extracted: 11/23/15

**Matrix Spike Summary
Inorganic Parameters**

Sample Name: SW-1
Lab Code: R1510060-001
Analysis Method: 7470A
Prep Method: Method

Units: mg/L
Basis: NA

**Matrix Spike
R1510060-001MS**

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	0.00020 U	0.00103	0.00100	103	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33205

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

4

Project Name Glens Falls		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)			
Project Manager Mark Schumacher		Report CC		PRESERVATIVE			
Company/Address 5788 Widenwaters Pkwy, 2nd Floor, Syracuse, NY 13214				GC/MS VOAs • 8260 • 624 • CLP GC/MS SVOAs • 8270 • 625 GC VOAs • 8021 • 601/602 PESTICIDES • 8081 • 608 PCBs • 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chrome 7196 Total Cyanide 9012B			
Phone # 315-552-9833	Email mark.schumacher@amvgroup.com	Preservative Key 0. NONE 1. HCl 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn, Acetate 6. MeOH 7. NaHSO ₄ 8. Other					
Sampler's Signature <i>Carlynn Cummings</i>	Sampler's Printed Name Carlynn Cummings	CLIENT SAMPLE ID SW-1	FOR OFFICE USE ONLY LAB ID	DATE 11-18-15	TIME 13:00	MATRIX water	NUMBER OF CONTAINERS 3
SW-2		11-18-15		13:40		water	3
<div>Category B deliverable due in normal time frame. Electronic data due as a standard data package for all analysis in 3-day TAT.</div>							
SPECIAL INSTRUCTIONS/COMMENTS Metals							
TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE 11-23-15 OCB							
REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (ICS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report Edata <input checked="" type="checkbox"/> Yes							
INVOICE INFORMATION PO # Glens Falls BILL TO: Ashland R1510060 5							
STATE WHERE SAMPLES WERE COLLECTED New York							
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
Signature <i>Carlynn Cummings</i>		Signature <i>Mark Schumacher</i>		Signature <i>Carlynn Cummings</i>		Signature <i>Mark Schumacher</i>	
Printed Name Carlynn Cummings		Printed Name Mark Schumacher		Printed Name Carlynn Cummings		Printed Name Mark Schumacher	
Firm Amv Group		Firm ALS		Firm Amv Group		Firm ALS	
Date/Time 11-18-15 13:58		Date/Time 11-18-15 13:58		Date/Time 11-18-15 17:00		Date/Time 11-18-15 17:00	



Cooler Receipt and Preservation Check Form

R1510060

5

Antea USA Inc
Queensbury, NYProject/Client Antea Folder Number _____Cooler received on 11/19/15 by: ECOURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROO</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 11/19/15 Time: 0803 ID: IR#3 IR#3 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.5</u>						
Correction Factor (°C)	<u>10.5</u>						
Corrected Temp (°C)	<u>4.0°</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: 2-002 by E on 11/19/15 at 0805
 5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JRCooler Breakdown: Date: 11/19/15 Time: 1058 by: MAR

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated ☒ N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<u>K</u>		<u>E1114</u>	<u>09/16</u>				
≤2	HNO ₃	<u>R</u>		<u>B0820147H</u>	<u>10/16</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<u>X</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 072715-2AA0, 042015-2AAW
 Other Comments: _____

7196 (2)
 11/19/15
 1300-1740

PC Secondary Review: JR

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



December 03, 2015

Service Request No:R1510260

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 25, 2015
For your reference, these analyses have been assigned our service request number **R1510260**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1510260

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1510260-001	NE FLOOR	11/24/2015	1300

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: NE FLOOR
Lab Code: R1510260-001

Service Request: R1510260
Date Collected: 11/24/15 13:00
Date Received: 11/25/15 08:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/25/15 11:04	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 10:42	12/01/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Collected: 11/24/15 13:00
Date Received: 11/25/15 08:15

Sample Name: NE FLOOR
Lab Code: R1510260-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 21:20	11/30/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/01/15 21:20	11/30/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/01/15 21:20	11/30/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/01/15 21:20	11/30/15	
Calcium, Total	6010C	6.6	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	
Iron, Total	6010C	0.16	mg/L	0.10	1	12/01/15 21:20	11/30/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Magnesium, Total	6010C	1.2	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Manganese, Total	6010C	0.042	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/01/15 15:19	11/30/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/01/15 21:20	11/30/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/01/15 21:20	11/30/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Sodium, Total	6010C	15.0	mg/L	1.0	1	12/01/15 21:20	11/30/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 21:20	11/30/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 21:20	11/30/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 21:20	11/30/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1510260-MB

Service Request: R1510260
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/25/15 11:02	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 10:35	12/01/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R1510260-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 20:59	11/30/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/01/15 20:59	11/30/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/01/15 20:59	11/30/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/01/15 20:59	11/30/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	12/01/15 20:59	11/30/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/01/15 15:01	11/30/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/01/15 20:59	11/30/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/01/15 20:59	11/30/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	12/01/15 20:59	11/30/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/01/15 20:59	11/30/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/01/15 20:59	11/30/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/01/15 20:59	11/30/15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Analyzed: 11/25/15 - 12/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510260-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0953	0.100	95	80-120
Cyanide, Total	9012B	0.0986	0.100	99	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Analyzed: 12/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510260-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.386	0.400	97	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260**Date Collected:** 11/24/15**Date Received:** 11/25/15**Date Analyzed:** 11/25/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: NE FLOOR
Lab Code: R1510260-001

Units: mg/L**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R1510260-001DUP Result			
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Collected: 11/24/15
Date Received: 11/25/15
Date Analyzed: 11/25/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: NE FLOOR
Lab Code: R1510260-001
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1510260-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.010 U	0.101	0.100	101	85-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510260
Date Analyzed: 12/01/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510260-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	2.11	2.00	106	80-120
Antimony, Total	6010C	0.570	0.500	114	80-120
Arsenic, Total	6010C	0.0449	0.040	112	80-120
Barium, Total	6010C	2.27	2.00	114	80-120
Beryllium, Total	6010C	0.0536	0.0500	107	80-120
Cadmium, Total	6010C	0.0547	0.0500	109	80-120
Calcium, Total	6010C	2.31	2.0	115	80-120
Chromium, Total	6010C	0.227	0.200	114	80-120
Cobalt, Total	6010C	0.554	0.500	111	80-120
Copper, Total	6010C	0.285	0.250	114	80-120
Iron, Total	6010C	1.10	1.00	110	80-120
Lead, Total	6010C	0.579	0.500	116	80-120
Magnesium, Total	6010C	2.06	2.0	103	80-120
Manganese, Total	6010C	0.555	0.500	111	80-120
Mercury, Total	7470A	0.000973	0.00100	97	80-120
Nickel, Total	6010C	0.563	0.500	113	80-120
Potassium, Total	6010C	20.3	20.0	101	80-120
Selenium, Total	6010C	1.11	1.01	110	80-120
Silver, Total	6010C	0.0556	0.050	111	80-120
Sodium, Total	6010C	21.6	20.0	108	80-120
Thallium, Total	6010C	2.25	2.00	113	80-120
Vanadium, Total	6010C	0.546	0.500	109	80-120
Zinc, Total	6010C	0.556	0.500	111	80-120

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33206

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name Glens Falls		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)			
Project Manager Mark Schumacher		Report CC		PRESERVATIVE			
Company/Address Antea Group 5788 Wildwaters Hwy, 2nd Fl, Syracuse, NY 13214 e-mail: mark.schumacher@antegrup.com				GC/MS VOAs o 8260 o 624 o CLP GC/MS SVOAs o 8270 o 625 GC VOAs o 8021 o 601/602 PESTICIDES o 8081 o 608 PCBs o 8082 o 608 METALS, TOTAL TAL List (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chrome 7196 Total Cyanide 9012 B			
Phone # 315-552-9833		Email mark.schumacher@antegrup.com		Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other			
Sampler's Signature Carlye Clemmens		Sampler's Printed Name Carlye Clemmens		NUMBER OF CONTAINERS GC/MS VOAs o 8260 o 624 o CLP GC/MS SVOAs o 8270 o 625 GC VOAs o 8021 o 601/602 PESTICIDES o 8081 o 608 PCBs o 8082 o 608 METALS, TOTAL TAL List (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chrome 7196 Total Cyanide 9012 B			
CLIENT SAMPLE ID NE Fiber	FOR OFFICE USE ONLY LAB ID	DATE 11-24-15	SAMPLING TIME 13:00	MATRIX Water	REMARKS/ ALTERNATE DESCRIPTION		
<div style="border: 1px solid black; height: 100px; width: 100%; position: relative;"> <div style="position: absolute; top: 0; right: 0; bottom: 0; left: 0; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 4px 4px;"> </div> </div>							
SPECIAL INSTRUCTIONS/COMMENTS Metals TAL List (EPA 6010, 7470A) Category B derivative due in normal time frame. Electronic data due as a standard data package for all analysis in a 3-day TAT				TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day			
STATE WHERE SAMPLES WERE COLLECTED NEW YORK				REQUESTED REPORT DATE 12-2-15			
RELINQUISHED BY Mark Schumacher		RECEIVED BY Carlye Clemmens		RELINQUISHED BY		RECEIVED BY	
Signature Mark Schumacher		Signature Carlye Clemmens		Signature		Signature	
Printed Name Mark Schumacher		Printed Name Carlye Clemmens		Printed Name		Printed Name	
Firm Antea Group		Firm ALS		Firm		Firm	
Date/Time 11/24/15 15:56		Date/Time 11/24/15 17:00		Date/Time		Date/Time	
REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LDS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data				INVOICE INFORMATION PC # Glens Falls BILL TO: Ashtland			
PC # R1510260 5				RECEIVED BY			



Cooler Receipt and Preservation Check Form

R1510260

5

Antea USA Inc
Queensbury, NYProject/Client Antea Folder Number _____Cooler received on 11/25/15 by: OFFERCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 11/25/15 Time: 0820 ID IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.5</u>						
Correction Factor (°C)	<u>+0.5</u>						
Corrected Temp (°C)	<u>2.0</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: 72-002 by Q on 11/25/15 at 0823
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: flintCooler Breakdown: Date: 11/25/15 Time: 0825 by: Q

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies: _____

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<u>✓</u>		<u>8144</u>	<u>9/16</u>				
≤2	HNO ₃	<u>✓</u>		<u>BD326147H</u>	<u>10/16</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 012715-2AAA, 042015-2AAW

Other Comments: _____

PC Secondary Review: flint

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



December 08, 2015

Service Request No:R1510352

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory December 02, 2015
For your reference, these analyses have been assigned our service request number **R1510352**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1510352

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1510352-001	NW FLOOR	11/30/2015	1325
R1510352-002	SW FLOOR	12/1/2015	1310
R1510352-003	SE FLOOR	12/1/2015	1245
R1510352-004	NW FLOOR-R	12/1/2015	1325

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: NW FLOOR
Lab Code: R1510352-001

Service Request: R1510352
Date Collected: 11/30/15 13:25
Date Received: 12/02/15 08:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:25	12/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Collected: 11/30/15 13:25
Date Received: 12/02/15 08:00

Sample Name: NW FLOOR
Lab Code: R1510352-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:42	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:42	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:42	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:42	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:42	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:42	12/03/15	
Calcium, Total	6010C	5.9	mg/L	1.0	1	12/05/15 17:42	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:15	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:42	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:42	12/03/15	
Iron, Total	6010C	0.27	mg/L	0.10	1	12/05/15 17:42	12/03/15	
Lead, Total	6010C	0.071	mg/L	0.050	1	12/05/15 17:42	12/03/15	
Magnesium, Total	6010C	1.2	mg/L	1.0	1	12/05/15 17:42	12/03/15	
Manganese, Total	6010C	0.020	mg/L	0.010	1	12/05/15 17:42	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:31	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:42	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:15	12/03/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:42	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:42	12/03/15	
Sodium, Total	6010C	5.3	mg/L	1.0	1	12/05/15 17:42	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:42	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:42	12/03/15	
Zinc, Total	6010C	0.060	mg/L	0.020	1	12/07/15 07:15	12/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: SW FLOOR
Lab Code: R1510352-002

Service Request: R1510352
Date Collected: 12/01/15 13:10
Date Received: 12/02/15 08:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:39	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:27	12/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Collected: 12/01/15 13:10
Date Received: 12/02/15 08:00

Sample Name: SW FLOOR
Lab Code: R1510352-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.12	mg/L	0.10	1	12/05/15 17:48	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:48	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:48	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:48	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:48	12/03/15	
Calcium, Total	6010C	13.4	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:19	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:48	12/03/15	
Iron, Total	6010C	0.66	mg/L	0.10	1	12/05/15 17:48	12/03/15	
Lead, Total	6010C	0.081	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Magnesium, Total	6010C	2.5	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Manganese, Total	6010C	0.037	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:33	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:48	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:19	12/03/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Sodium, Total	6010C	8.8	mg/L	1.0	1	12/05/15 17:48	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:48	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:48	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:19	12/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: SE FLOOR
Lab Code: R1510352-003

Service Request: R1510352
Date Collected: 12/01/15 12:45
Date Received: 12/02/15 08:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:42	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:28	12/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Collected: 12/01/15 12:45
Date Received: 12/02/15 08:00

Sample Name: SE FLOOR
Lab Code: R1510352-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:53	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:53	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:53	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:53	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:53	12/03/15	
Calcium, Total	6010C	13.7	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:22	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:53	12/03/15	
Iron, Total	6010C	0.82	mg/L	0.10	1	12/05/15 17:53	12/03/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Magnesium, Total	6010C	2.6	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Manganese, Total	6010C	0.038	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:35	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:53	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:22	12/03/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Sodium, Total	6010C	9.1	mg/L	1.0	1	12/05/15 17:53	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:53	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:53	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:22	12/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: NW FLOOR-R
Lab Code: R1510352-004

Service Request: R1510352
Date Collected: 12/01/15 13:25
Date Received: 12/02/15 08:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1510352-MB

Service Request: R1510352
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	12/02/15 08:35	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	12/02/15 11:22	12/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1510352-MB

Service Request: R1510352
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:30	12/03/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	12/05/15 17:30	12/03/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:30	12/03/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	12/05/15 17:30	12/03/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	12/05/15 17:30	12/03/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	12/07/15 07:08	12/03/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	12/05/15 17:30	12/03/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	12/05/15 17:30	12/03/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	12/03/15 13:22	12/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	12/05/15 17:30	12/03/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	12/07/15 07:08	12/03/15	
Selenium, Total	6010C	10 U	mg/L	10	1	12/05/15 17:30	12/03/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	12/05/15 17:30	12/03/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	12/05/15 17:30	12/03/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	12/05/15 17:30	12/03/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	12/07/15 07:08	12/03/15	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352**Date Analyzed:** 12/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R1510352-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.0956	0.100	96	80-120
Cyanide, Total	9012B	0.100	0.100	100	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Analyzed: 12/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510352-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.383	0.400	96	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352**Date Collected:** 12/01/15**Date Received:** 12/02/15**Date Analyzed:** 12/02/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SW FLOOR
Lab Code: R1510352-002

Units: mg/L**Basis:** NA

				Duplicate Sample R1510352- 002DUP Result			
Analyte Name	Analysis Method	MRL	Sample Result		Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352**Date Collected:** 11/30/15**Date Received:** 12/02/15**Date Analyzed:** 12/02/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: NW FLOOR
Lab Code: R1510352-001

Units: mg/L**Basis:** NA

Duplicate Sample R1510352- 001DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	RPD	RPD Limit
Cyanide, Total	9012B	0.010	0.010 U	0.010 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Collected: 12/01/15
Date Received: 12/02/15
Date Analyzed: 12/2/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: SW FLOOR
Lab Code: R1510352-002
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1510352-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.010 U	0.104	0.100	104	85-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Collected: 11/30/15
Date Received: 12/02/15
Date Analyzed: 12/2/15
Date Extracted: 12/2/15

Matrix Spike Summary
Cyanide, Total

Sample Name: NW FLOOR
Lab Code: R1510352-001
Analysis Method: 9012B
Prep Method: Method

Units: mg/L
Basis: NA

Matrix Spike
R1510352-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	0.010 U	0.098	0.100	98	77-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1510352
Date Analyzed: 12/03/15 - 12/07/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1510352-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.93	2.00	96	80-120
Antimony, Total	6010C	0.471	0.500	94	80-120
Arsenic, Total	6010C	0.0417	0.040	104	80-120
Barium, Total	6010C	2.13	2.00	106	80-120
Beryllium, Total	6010C	0.0489	0.0500	98	80-120
Cadmium, Total	6010C	0.0509	0.0500	102	80-120
Calcium, Total	6010C	2.10	2.0	105	80-120
Chromium, Total	6010C	0.208	0.200	104	80-120
Cobalt, Total	6010C	0.517	0.500	103	80-120
Copper, Total	6010C	0.270	0.250	108	80-120
Iron, Total	6010C	1.05	1.00	105	80-120
Lead, Total	6010C	0.519	0.500	104	80-120
Magnesium, Total	6010C	2.00	2.0	100	80-120
Manganese, Total	6010C	0.522	0.500	104	80-120
Mercury, Total	7470A	0.00103	0.00100	103	80-120
Nickel, Total	6010C	0.528	0.500	106	80-120
Potassium, Total	6010C	20.7	20.0	104	80-120
Selenium, Total	6010C	997	1010	99	80-120
Silver, Total	6010C	0.0515	0.050	103	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	2.06	2.00	103	80-120
Vanadium, Total	6010C	0.504	0.500	101	80-120
Zinc, Total	6010C	0.496	0.500	99	80-120



PAGE 1 OF 1

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33208

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PAGE 1 OF 1

Project Name Glens Falls		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager Mark Schumacher		Report CC		PRESERVATIVE		2		0		4					
Company/Address Antea Group/5788 Widewaters Ferry, 2nd Fl. Syracuse, NY				GC/MS VOAs GC/MS SVOAs GC VOAs PESTICIDES PCBs METALS, TOTAL METALS, DISSOLVED Hex Chrome Total Cyanide Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn, Acetate 6. MeOH 7. NaHSO4 8. Other											
Phone # 315-552-9833		Email mark.schumacher@antegroup.com													
Sample's Signature Debra Clemmens		Sampler's Printed Name Carmyn Clemmens													
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX							
SW FIBER				12-1-15		13:12		Water		X					
SE FIBER				12-1-15		12:45		Water		X					
NW FIBER-R				12-1-15		13:25		Water		X					
SPECIAL INSTRUCTIONS/COMMENTS															
Metals TAL list (EPA 4010.7004) Category B deliverable due in normal time frame. Electronic data due as a standard data package for all analysis in a 3-day TAT.															
See OAPP <input type="checkbox"/>															
STATE WHERE SAMPLES WERE COLLECTED NEW YORK				TURNAROUND REQUIREMENTS											
RELINQUISHED BY Debra Clemmens		RECEIVED BY Debra Clemmens		RELINQUISHED BY Debra Clemmens		RECEIVED BY Debra Clemmens		RELINQUISHED BY Debra Clemmens		RECEIVED BY Debra Clemmens		RELINQUISHED BY Debra Clemmens		RECEIVED BY Debra Clemmens	
Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens		Printed Name Debra Clemmens	
Firm Antea Group		Firm Antea Group		Firm Antea Group		Firm Antea Group		Firm Antea Group		Firm Antea Group		Firm Antea Group		Firm Antea Group	
Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55		Date/Time 12/1/15 @ 13:55	
REPORT REQUIREMENTS				INVOICE INFORMATION											
<input checked="" type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Date Validation Report with Raw Data				PO # Glens Falls BILL TO ASHLAND											
REQUESTED REPORT DATE 12-4-15 COB				Scale <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day															
R1510352 5															



Cooler Receipt and Preservation

R1510352

5

Antea USA Inc.
Queensbury, NYProject/Client Antea Folder Number _____Cooler received on 12/2/15 by: RCOURIER: ALS UPS PEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 12/2/15 Time: 0801 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.4</u>	<u>1.3</u>					
Correction Factor (°C)	<u>1.0°</u>	<u>10.5</u>					
Corrected Temp (°C)	<u>2.4°</u>	<u>11.8°</u>					
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N
If <0°C, were samples frozen?	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N	Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R002 by R on 12/2/15 at 0802
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: SRCooler Breakdown: Date: 12/2/15 Time: 0801 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated SR

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<input checked="" type="checkbox"/> X		<u>8114</u>	<u>9/16</u>				
≤2	HNO ₃	<input checked="" type="checkbox"/> X		<u>16022647H</u>	<u>10/16</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<input checked="" type="checkbox"/> X		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Ycs=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 072715-2000, 052515-2000, BDB26143B
Other Comments:7196(3)12/1/151245-1325PC Secondary Review: SR

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 11, 2015

Service Request No:R1509522

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2015
For your reference, these analyses have been assigned our service request number **R1509522**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

ALS Environmental

Client: Antea
Service Request No.: R1509522
Project: Glens Falls
Date Received: 11/05/15
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Sample Vessel 1 was analyzed slightly outside holding time for Hexavalent Chromium and has been flagged with an “N”.

Site QC was requested on Vessel 2. Accuracy and precision were acceptable for all analytes.

All remaining QC criteria were met.

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1509522

<u>Lab ID</u>	<u>Client ID</u>
R1509522-001	Vessel 1
R1509522-002	Vessel 2
R1509522-003	DUP110415

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15 10:45
Date Received: 11/05/15 09:45

Sample Name: Vessel 1
Lab Code: R1509522-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 18:39	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 18:39	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Barium, Total	6010C	0.055	mg/L	0.020	1	11/06/15 18:39	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 18:39	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 18:39	11/05/15	
Calcium, Total	6010C	6.3	mg/L	1.0	1	11/06/15 18:39	11/05/15	
Chromium, Total	6010C	0.097	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Copper, Total	6010C	0.231	mg/L	0.020	1	11/09/15 09:32	11/08/15	
Iron, Total	6010C	7.74	mg/L	0.10	1	11/06/15 18:39	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 18:39	11/05/15	
Manganese, Total	6010C	0.143	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:20	11/08/15	
Nickel, Total	6010C	0.089	mg/L	0.040	1	11/06/15 18:39	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 18:36	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Sodium, Total	6010C	13.5	mg/L	1.0	1	11/08/15 18:36	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:39	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:39	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:32	11/08/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Vessel 1
Lab Code: R1509522-001

Service Request: R1509522
Date Collected: 11/04/15 10:45
Date Received: 11/05/15 09:45
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.012	mg/L	0.010	1	11/05/15 10:54	NA	*
Cyanide, Total	9012B	0.060	mg/L	0.010	1	11/06/15 13:12	11/05/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15 11:00
Date Received: 11/05/15 09:45

Sample Name: Vessel 2
Lab Code: R1509522-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 18:45	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 18:45	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Barium, Total	6010C	0.032	mg/L	0.020	1	11/06/15 18:45	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 18:45	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 18:45	11/05/15	
Calcium, Total	6010C	6.6	mg/L	1.0	1	11/06/15 18:45	11/05/15	
Chromium, Total	6010C	0.096	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:37	11/08/15	
Iron, Total	6010C	1.01	mg/L	0.10	1	11/06/15 18:45	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 18:45	11/05/15	
Manganese, Total	6010C	0.076	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:21	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 18:45	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 18:42	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Sodium, Total	6010C	18.9	mg/L	1.0	1	11/08/15 18:42	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 18:45	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 18:45	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:37	11/08/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Vessel 2
Lab Code: R1509522-002

Service Request: R1509522
Date Collected: 11/04/15 11:00
Date Received: 11/05/15 09:45
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.071	mg/L	0.010	1	11/05/15 10:56	NA	
Cyanide, Total	9012B	0.139	mg/L	0.010	1	11/06/15 13:13	11/05/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15 11:05
Date Received: 11/05/15 09:45

Sample Name: DUP110415
Lab Code: R1509522-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 19:13	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 19:13	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Barium, Total	6010C	0.033	mg/L	0.020	1	11/06/15 19:13	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 19:13	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 19:13	11/05/15	
Calcium, Total	6010C	6.8	mg/L	1.0	1	11/06/15 19:13	11/05/15	
Chromium, Total	6010C	0.102	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 10:06	11/08/15	
Iron, Total	6010C	0.86	mg/L	0.10	1	11/06/15 19:13	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Magnesium, Total	6010C	1.4	mg/L	1.0	1	11/06/15 19:13	11/05/15	
Manganese, Total	6010C	0.073	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 08:26	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 19:13	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 19:24	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Sodium, Total	6010C	18.8	mg/L	1.0	1	11/08/15 19:24	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 19:13	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 19:13	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 10:06	11/08/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: DUP110415
Lab Code: R1509522-003

Service Request: R1509522
Date Collected: 11/04/15 11:05
Date Received: 11/05/15 09:45

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.068	mg/L	0.010	1	11/05/15 10:55	NA	
Cyanide, Total	9012B	0.133	mg/L	0.010	1	11/06/15 13:17	11/05/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R1509522-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 16:09	11/05/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/06/15 16:09	11/05/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/06/15 16:09	11/05/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/06/15 16:09	11/05/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/06/15 16:09	11/05/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/06/15 16:09	11/05/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:20	11/08/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/06/15 16:09	11/05/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/06/15 16:09	11/05/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/09/15 07:55	11/08/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/06/15 16:09	11/05/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/08/15 14:31	11/05/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/08/15 14:31	11/05/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/06/15 16:09	11/05/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/06/15 16:09	11/05/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/09/15 09:20	11/08/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1509522-MB

Service Request: R1509522
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	11/05/15 10:51	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/06/15 12:59	11/05/15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Analyzed: 11/06/15 - 11/09/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509522-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.83	2.00	92	80-120
Antimony, Total	6010C	0.467	0.500	93	80-120
Arsenic, Total	6010C	0.0396	0.040	99	80-120
Barium, Total	6010C	2.02	2.00	101	80-120
Beryllium, Total	6010C	0.0463	0.0500	93	80-120
Cadmium, Total	6010C	0.0482	0.0500	96	80-120
Calcium, Total	6010C	1.98	2.0	99	80-120
Chromium, Total	6010C	0.203	0.200	101	80-120
Cobalt, Total	6010C	0.481	0.500	96	80-120
Copper, Total	6010C	0.269	0.250	108	80-120
Iron, Total	6010C	0.991	1.00	99	80-120
Lead, Total	6010C	0.498	0.500	100	80-120
Magnesium, Total	6010C	1.87	2.0	94	80-120
Manganese, Total	6010C	0.493	0.500	99	80-120
Mercury, Total	7470A	0.000966	0.00100	97	80-120
Nickel, Total	6010C	0.499	0.500	100	80-120
Potassium, Total	6010C	19.4	20.0	97	80-120
Selenium, Total	6010C	0.920	1.01	91	80-120
Silver, Total	6010C	0.0480	0.050	96	80-120
Sodium, Total	6010C	19.8	20.0	99	80-120
Thallium, Total	6010C	1.98	2.00	99	80-120
Vanadium, Total	6010C	0.477	0.500	95	80-120
Zinc, Total	6010C	0.509	0.500	102	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Analyzed: 11/05/15 - 11/06/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509522-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.100	0.100	100	80-120
Cyanide, Total	9012B	0.101	0.100	101	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Analyzed: 11/06/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509522-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.404	0.400	101	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15
Date Received: 11/05/15
Date Analyzed: 11/06/15 - 11/09/15

Matrix Spike Summary
Inorganic Parameters

Sample Name: Vessel 2
Lab Code: R1509522-002

Units: mg/L
Basis: NA

Matrix Spike
R1509522-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	0.10	1.74	2.00	87	75-125
Antimony, Total	6010C	0.060	0.424	0.500	85	75-125
Arsenic, Total	6010C	0.010	0.042	0.040	105	75-125
Barium, Total	6010C	0.032	1.96	2.00	96	75-125
Beryllium, Total	6010C	0.0030	0.0457	0.0500	91	75-125
Cadmium, Total	6010C	0.0050	0.0465	0.0500	93	75-125
Calcium, Total	6010C	6.6	8.6	2.0	96	75-125
Chromium, Total	6010C	0.096	0.292	0.200	98	75-125
Cobalt, Total	6010C	0.050	0.473	0.500	95	75-125
Copper, Total	6010C	0.020	0.274	0.250	110	75-125
Iron, Total	6010C	1.01	2.13	1.00	112	75-125
Lead, Total	6010C	0.050	0.477	0.500	95	75-125
Magnesium, Total	6010C	1.4	3.2	2.0	91	75-125
Manganese, Total	6010C	0.076	0.564	0.500	98	75-125
Mercury, Total	7470A	0.00020	0.00110	0.00100	110	75-125
Nickel, Total	6010C	0.040	0.492	0.500	98	75-125
Potassium, Total	6010C	2.0	20.5	20.0	102	75-125
Selenium, Total	6010C	0.010	0.898	1.01	89	75-125
Silver, Total	6010C	0.010	0.048	0.050	96	75-125
Sodium, Total	6010C	18.9	38.2	20.0	97	75-125
Thallium, Total	6010C	0.010	1.82	2.00	91	75-125
Vanadium, Total	6010C	0.050	0.467	0.500	93	75-125
Zinc, Total	6010C	0.020	0.512	0.500	102	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15
Date Received: 11/05/15
Date Analyzed: 11/06/15 - 11/09/15

Replicate Sample Summary

Inorganic Parameters

Sample Name: Vessel 2
Lab Code: R1509522-002

Units: mg/L
Basis: NA

Duplicate Sample R1509522-002DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Aluminum, Total	6010C	0.10	0.10 U	0.10 U	NC	NC	20
Antimony, Total	6010C	0.060	0.060 U	0.060 U	NC	NC	20
Arsenic, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Barium, Total	6010C	0.020	0.032	0.032	0.0320	<1	20
Beryllium, Total	6010C	0.0030	0.0030 U	0.0030 U	NC	NC	20
Cadmium, Total	6010C	0.0050	0.0050 U	0.0050 U	NC	NC	20
Calcium, Total	6010C	1.0	6.6	6.5	6.60	1	20
Chromium, Total	6010C	0.010	0.096	0.095	0.0951	1	20
Cobalt, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Copper, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20
Iron, Total	6010C	0.10	1.01	1.03	1.02	3	20
Lead, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Magnesium, Total	6010C	1.0	1.4	1.4	1.38	1	20
Manganese, Total	6010C	0.010	0.076	0.076	0.0763	<1	20
Mercury, Total	7470A	0.00020	0.00020 U	0.00020 U	NC	NC	20
Nickel, Total	6010C	0.040	0.040 U	0.040 U	NC	NC	20
Potassium, Total	6010C	2.0	2.0 U	2.0 U	NC	NC	20
Selenium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Silver, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Sodium, Total	6010C	1.0	18.9	18.0	18.5	5	20
Thallium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Vanadium, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Zinc, Total	6010C	0.020	0.020 U	0.020 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15
Date Received: 11/05/15
Date Analyzed: 11/05/15 - 11/06/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: Vessel 2
Lab Code: R1509522-002

Units: mg/L
Basis: NA

Matrix Spike
R1509522-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.071	0.171	0.100	100	85-115
Cyanide, Total	9012B	0.139	0.240	0.100	100	77-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509522
Date Collected: 11/04/15
Date Received: 11/05/15
Date Analyzed: 11/05/15 - 11/06/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Vessel 2
Lab Code: R1509522-002

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R1509522-002DUP Result			
Chromium, Hexavalent	7196A	0.010	0.071	0.071	0.0707	<1	20
Cyanide, Total	9012B	0.010	0.139	0.137	0.138	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33201

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name: **Glens Falls**

Project Manager: **Mark Schumacher**

Company/Address: **5766 Widenwaters Pkwy, 3rd Floor, Syracuse, NY 13214**

e-mail: **mark.schumacher@alsgroup.com**

Phone #: **315-552-9832**

Signature: **Mark Schumacher**

Printer's Name: **Mark Schumacher**

Client Sample ID: **VESSEL 1**

FOR OFFICE USE ONLY LAB ID:

DATE: **11/4/15**

SAMPLING TIME: **10:45**

MATRIX: **water**

NUMBER OF CONTAINERS: **3**

GC/MS VOAs: **8260 • 824 • CLP**

GC/MS SVOAs: **8270 • 825**

GC VOAs: **8021 • 801/802**

PESTICIDES: **8081 • 808**

PCBs: **8082 • 806**

METALS, TOTAL: **TAL List**

METALS, DISSOLVED: **(List in comments below)**

Hex Chrome: **7196**

Total Cyanide: **9028**

Preservative Key: **1. NONE 2. HCL 3. HNO3 4. H2SO4 5. NaOH 6. MeOH 7. NaHSO4 8. Other**

REMARKS/ALTERNATE DESCRIPTION:

STATE WHERE SAMPLES WERE COLLECTED: **NY**

RELINQUISHED BY: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

DATE: **11/4/15**

TIME: **12:33**

DATE: **11/4/15**

TIME: **14:00**

DATE: **11/4/15**

TIME: **14:00**

DATE: **11/4/15**

TIME: **14:00**

DATE: **11/4/15**

TIME: **14:00**

DATE: **11/4/15**

TIME: **14:00**

DATE: **11/4/15**

TIME: **14:00**

ANALYSIS REQUESTED (Include Method Number and Container Preservative): **2 04**

TURNAROUND REQUIREMENTS: **1 day 2 day 3 day 4 day 5 day**

REPORT REQUIREMENTS: **I. Results Only II. Results + OC Summaries III. Results + OC and Calibration Summaries IV. Data Validation Report with**

INVOICE INFORMATION: **PO # 3625 FALLS BILL TO: Ashland R1509522 5**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

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Printed Name: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**

Signature: **Mark Schumacher**

Printed Name: **Mark Schumacher**



Cooler Receipt and Preservation Check Form

R1509522

5

Antec USA Inc.
Queensbury, NYProject/Client Antec Folder Number _____Cooler received on 11/5/15 by AE COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 11/5/15 Time: 0949 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.7</u>						
Correction Factor (°C)	<u>-0.5</u>						
Corrected Temp (°C)	<u>3.2°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: 2-012 by AE on 11/5/15 at 0800
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: AECooler Breakdown: Date: 11/5/15 Time: 1146 by: IMAR

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies: _____

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<u>X</u>		<u>8114</u>	<u>0716</u>				
≤2	HNO ₃	<u>X</u>		<u>BDB26147H</u>	<u>1016</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<u>X</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042015-2AAW 072715-2AAG
Other Comments: _____7196 (3 w/ 60)11/4/1510-15-1105PC Secondary Review: AE

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Appendix E

Waste Characterization Laboratory Data

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-112745-1

Client Project/Site: Hercules Glens Falls AST Waste Char.

For:

Ashland Inc

5200 Blazer Parkway

DS-4

Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Kathryn Smith

Authorized for release by:

6/4/2015 1:56:53 PM

Kathryn Smith, Project Manager II

(912)354-7858

kathy.smith@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

Definitions/Glossary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

Sample Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-112745-1	PTP AST	Water	05/20/15 13:30	05/21/15 09:12
680-112745-2	Trip Blank	Water	05/20/15 00:00	05/21/15 09:12

Case Narrative

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Job ID: 680-112745-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Ashland Inc
Project: Hercules Glens Falls AST Waste Char.

Report Number: 680-112745-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 05/21/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples PTP AST (680-112745-1) and Trip Blank (680-112745-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/01/2015 and 06/02/2015.

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

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Sample PTP AST (680-112745-1) was analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/27/2015 and analyzed on 06/02/2015.

Several analytes recovered low for the MS/MSD of sample PTP ASTMSD (680-112745-1) in batch 680-385515. Caprolactam exceeded the RPD limit.

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

METALS (ICP)

Sample PTP AST (680-112745-1) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/26/2015 and analyzed on 05/27/2015.

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

HEXAVALENT CHROMIUM

Sample PTP AST (680-112745-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 05/21/2015.

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

TOTAL MERCURY

Sample PTP AST (680-112745-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/27/2015 and analyzed on 05/28/2015.

Sample PTP AST (680-112745-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

IGNITABILITY

Sample PTP AST (680-112745-1) was analyzed for ignitability in accordance with EPA SW846 Method 1010A. The samples were analyzed

Case Narrative

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Job ID: 680-112745-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

on 05/29/2015.

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

TOTAL SUSPENDED SOLIDS

Sample PTP AST (680-112745-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 05/21/2015.

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

AMMONIA

Sample PTP AST (680-112745-1) was analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/21/2015.

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

PHENOLS

Sample PTP AST (680-112745-1) was analyzed for phenols in accordance with EPA Method 420.1. The samples were prepared and analyzed on 05/26/2015.

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

BIOCHEMICAL OXYGEN DEMAND

Sample PTP AST (680-112745-1) was analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The samples were analyzed on 05/21/2015 and 05/28/2015.

Biochemical Oxygen Demand recovered low for LCS 680-384258/2 and LCSD 680-384258/3. Sample PTP AST (680-112745-1) was reanalyzed outside of holding time, both sets of data have been reported.

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

CHEMICAL OXYGEN DEMAND

Sample PTP AST (680-112745-1) was analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 05/26/2015.

Sample PTP AST (680-112745-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL CYANIDE

Sample PTP AST (680-112745-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 05/26/2015.

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

CORROSIVITY (PH)

Sample PTP AST (680-112745-1) was analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 05/23/2015.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

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

SULFIDE

Case Narrative

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Job ID: 680-112745-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample PTP AST (680-112745-1) was analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 05/22/2015.

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

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Client Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: PTP AST

Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14		10	7.0	ug/L			06/02/15 17:47	1
Benzene	1.0	U	1.0	0.43	ug/L			06/02/15 17:47	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/02/15 17:47	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/02/15 17:47	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/02/15 17:47	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/02/15 17:47	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/02/15 17:47	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/02/15 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/02/15 17:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/02/15 17:47	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/02/15 17:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/02/15 17:47	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/02/15 17:47	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/02/15 17:47	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
2-Hexanone	10	U	10	2.0	ug/L			06/02/15 17:47	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/02/15 17:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/02/15 17:47	1
Styrene	1.0	U	1.0	0.27	ug/L			06/02/15 17:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/02/15 17:47	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/02/15 17:47	1
Toluene	1.0	U	1.0	0.48	ug/L			06/02/15 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/02/15 17:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/02/15 17:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/02/15 17:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/02/15 17:47	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/02/15 17:47	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/02/15 17:47	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/02/15 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		06/02/15 17:47	1
Dibromofluoromethane (Surr)	99		70 - 130		06/02/15 17:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/15 17:47	1
Toluene-d8 (Surr)	104		70 - 130		06/02/15 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U F1	10	0.58	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4,5-Trichlorophenol	10	U F1	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4,6-Trichlorophenol	10	U	10	0.85	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dimethylphenol	10	U	10	4.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dinitrophenol	50	U	50	10	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,4-Dinitrotoluene	10	U	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1

TestAmerica Savannah

Client Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: PTP AST

Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	10	U	10	0.87	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Chloronaphthalene	10	U F1	10	0.80	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Methylnaphthalene	10	U F1	10	0.78	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Methylphenol	10	U	10	0.89	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Nitroaniline	50	U	50	1.3	ug/L		05/27/15 15:58	06/02/15 00:27	1
2-Nitrophenol	10	U	10	0.76	ug/L		05/27/15 15:58	06/02/15 00:27	1
3 & 4 Methylphenol	10	U	10	1.3	ug/L		05/27/15 15:58	06/02/15 00:27	1
3,3'-Dichlorobenzidine	60	U F1	60	30	ug/L		05/27/15 15:58	06/02/15 00:27	1
3-Nitroaniline	50	U	50	5.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
4,6-Dinitro-2-methylphenol	50	U	50	10	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Bromophenyl phenyl ether	10	U F1	10	0.77	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Chloro-3-methylphenol	10	U	10	1.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Chloroaniline	20	U	20	2.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Chlorophenyl phenyl ether	10	U F1	10	0.84	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Nitroaniline	50	U	50	5.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
Acenaphthene	10	U F1	10	0.76	ug/L		05/27/15 15:58	06/02/15 00:27	1
Acenaphthylene	10	U F1	10	0.85	ug/L		05/27/15 15:58	06/02/15 00:27	1
Acetophenone	10	U	10	0.57	ug/L		05/27/15 15:58	06/02/15 00:27	1
Anthracene	10	U F1	10	0.69	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzo[a]anthracene	10	U F1	10	0.55	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzo[a]pyrene	10	U F1	10	0.71	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzo[b]fluoranthene	10	U F1	10	2.6	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzo[g,h,i]perylene	10	U F1	10	0.87	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzo[k]fluoranthene	10	U F1	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
Bis(2-chloroethoxy)methane	10	U	10	0.94	ug/L		05/27/15 15:58	06/02/15 00:27	1
Bis(2-chloroethyl)ether	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
Bis(2-ethylhexyl) phthalate	10	U F1	10	1.6	ug/L		05/27/15 15:58	06/02/15 00:27	1
Chrysene	10	U F1	10	0.51	ug/L		05/27/15 15:58	06/02/15 00:27	1
Dibenz(a,h)anthracene	10	U F1	10	1.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
Dibenzofuran	10	U F1	10	0.79	ug/L		05/27/15 15:58	06/02/15 00:27	1
Di-n-butyl phthalate	10	U F1	10	0.83	ug/L		05/27/15 15:58	06/02/15 00:27	1
Diethyl phthalate	10	U F1	10	0.88	ug/L		05/27/15 15:58	06/02/15 00:27	1
Dimethyl phthalate	10	U	10	0.99	ug/L		05/27/15 15:58	06/02/15 00:27	1
Di-n-octyl phthalate	10	U F1	10	1.4	ug/L		05/27/15 15:58	06/02/15 00:27	1
Fluoranthene	10	U F1	10	0.74	ug/L		05/27/15 15:58	06/02/15 00:27	1
Fluorene	10	U F1	10	0.96	ug/L		05/27/15 15:58	06/02/15 00:27	1
Hexachlorobenzene	10	U F1	10	0.79	ug/L		05/27/15 15:58	06/02/15 00:27	1
Hexachlorobutadiene	10	U F1	10	0.62	ug/L		05/27/15 15:58	06/02/15 00:27	1
Hexachlorocyclopentadiene	10	U F1	10	2.5	ug/L		05/27/15 15:58	06/02/15 00:27	1
Hexachloroethane	10	U	10	0.76	ug/L		05/27/15 15:58	06/02/15 00:27	1
Indeno[1,2,3-cd]pyrene	10	U F1	10	1.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
Isophorone	10	U	10	0.90	ug/L		05/27/15 15:58	06/02/15 00:27	1
Naphthalene	10	U	10	0.70	ug/L		05/27/15 15:58	06/02/15 00:27	1
Nitrobenzene	10	U	10	0.73	ug/L		05/27/15 15:58	06/02/15 00:27	1
N-Nitrosodiphenylamine	10	U	10	0.92	ug/L		05/27/15 15:58	06/02/15 00:27	1
N-Nitrosodi-n-propylamine	10	U	10	0.72	ug/L		05/27/15 15:58	06/02/15 00:27	1
Pentachlorophenol	50	U	50	2.0	ug/L		05/27/15 15:58	06/02/15 00:27	1
Phenanthrene	10	U F1	10	0.77	ug/L		05/27/15 15:58	06/02/15 00:27	1
Phenol	10	U	10	0.83	ug/L		05/27/15 15:58	06/02/15 00:27	1

TestAmerica Savannah

Client Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: PTP AST

Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	10	U F1	10	0.63	ug/L		05/27/15 15:58	06/02/15 00:27	1
Butyl benzyl phthalate	10	U F1	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
bis (2-chloroisopropyl) ether	10	U	10	0.78	ug/L		05/27/15 15:58	06/02/15 00:27	1
Carbazole	10	U	10	0.71	ug/L		05/27/15 15:58	06/02/15 00:27	1
2,6-Dinitrotoluene	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
4-Nitrophenol	50	U	50	1.9	ug/L		05/27/15 15:58	06/02/15 00:27	1
Atrazine	10	U	10	1.2	ug/L		05/27/15 15:58	06/02/15 00:27	1
Benzaldehyde	10	U	10	1.1	ug/L		05/27/15 15:58	06/02/15 00:27	1
Caprolactam	10	U F2	10	0.79	ug/L		05/27/15 15:58	06/02/15 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		39 - 124	05/27/15 15:58	06/02/15 00:27	1
2-Fluorobiphenyl	49		32 - 113	05/27/15 15:58	06/02/15 00:27	1
2-Fluorophenol (Surr)	52		26 - 109	05/27/15 15:58	06/02/15 00:27	1
Terphenyl-d14 (Surr)	21		10 - 126	05/27/15 15:58	06/02/15 00:27	1
Phenol-d5 (Surr)	53		27 - 110	05/27/15 15:58	06/02/15 00:27	1
Nitrobenzene-d5 (Surr)	62		32 - 118	05/27/15 15:58	06/02/15 00:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60000		200	100	ug/L		05/26/15 10:40	05/27/15 15:23	1
Antimony	53		20	5.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Arsenic	41		20	4.6	ug/L		05/26/15 10:40	05/27/15 15:23	1
Barium	5500		10	2.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Beryllium	1.8 J		4.0	0.20	ug/L		05/26/15 10:40	05/27/15 15:23	1
Cadmium	170		5.0	2.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Calcium	600000		500	96	ug/L		05/26/15 10:40	05/27/15 15:23	1
Chromium	12000		10	1.2	ug/L		05/26/15 10:40	05/27/15 15:23	1
Cobalt	150		10	0.95	ug/L		05/26/15 10:40	05/27/15 15:23	1
Copper	380		20	1.9	ug/L		05/26/15 10:40	05/27/15 15:23	1
Iron	230000		100	50	ug/L		05/26/15 10:40	05/27/15 15:23	1
Lead	1300		10	4.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Magnesium	35000		500	9.9	ug/L		05/26/15 10:40	05/27/15 15:23	1
Manganese	3400		10	2.0	ug/L		05/26/15 10:40	05/27/15 15:23	1
Nickel	560		40	2.3	ug/L		05/26/15 10:40	05/27/15 15:23	1
Potassium	9000		1000	22	ug/L		05/26/15 10:40	05/27/15 15:23	1
Selenium	12 J		20	6.4	ug/L		05/26/15 10:40	05/27/15 15:23	1
Silver	6.3 J		10	0.89	ug/L		05/26/15 10:40	05/27/15 15:23	1
Sodium	2400		1000	500	ug/L		05/26/15 10:40	05/27/15 15:23	1
Thallium	25 U		25	8.8	ug/L		05/26/15 10:40	05/27/15 15:23	1
Vanadium	3600		10	2.4	ug/L		05/26/15 10:40	05/27/15 15:23	1
Zinc	2100		20	8.7	ug/L		05/26/15 10:40	05/27/15 15:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12		2.0	0.80	ug/L		05/27/15 13:49	05/28/15 09:34	10

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95	HF			SU			05/23/15 07:56	1

TestAmerica Savannah

Client Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: PTP AST

Lab Sample ID: 680-112745-1

Date Collected: 05/20/15 13:30

Matrix: Water

Date Received: 05/21/15 09:12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			05/21/15 14:22	1
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/26/15 11:05	05/26/15 15:11	1
Chemical Oxygen Demand	160		20	10	mg/L			05/26/15 13:00	2
Chromium, hexavalent	0.010	U	0.010	0.0030	mg/L			05/21/15 12:14	1
Cyanide, Total	0.040		0.010	0.0050	mg/L		05/26/15 07:30	05/26/15 12:32	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>200		1.00	1.00	Degrees F			05/29/15 09:00	1
Total Suspended Solids	2200		42	42	mg/L			05/21/15 12:47	1
Sulfide	1.0	U	1.0	1.0	mg/L			05/22/15 11:15	1
Biochemical Oxygen Demand	120	*	2.0	2.0	mg/L			05/21/15 16:42	1
Biochemical Oxygen Demand	47	H	2.0	2.0	mg/L			05/28/15 18:46	1

Client Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: Trip Blank

Date Collected: 05/20/15 00:00

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			06/01/15 15:00	1
Benzene	1.0	U	1.0	0.43	ug/L			06/01/15 15:00	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/01/15 15:00	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/01/15 15:00	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/01/15 15:00	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/01/15 15:00	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/01/15 15:00	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/01/15 15:00	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/01/15 15:00	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/01/15 15:00	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/01/15 15:00	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/01/15 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/01/15 15:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/01/15 15:00	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/01/15 15:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/01/15 15:00	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/01/15 15:00	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/01/15 15:00	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/01/15 15:00	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/01/15 15:00	1
2-Hexanone	10	U	10	2.0	ug/L			06/01/15 15:00	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/01/15 15:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/01/15 15:00	1
Styrene	1.0	U	1.0	0.27	ug/L			06/01/15 15:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/01/15 15:00	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/01/15 15:00	1
Toluene	1.0	U	1.0	0.48	ug/L			06/01/15 15:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/01/15 15:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/01/15 15:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/01/15 15:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/01/15 15:00	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/01/15 15:00	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/01/15 15:00	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/01/15 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		06/01/15 15:00	1
Dibromofluoromethane (Surr)	98		70 - 130		06/01/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/01/15 15:00	1
Toluene-d8 (Surr)	104		70 - 130		06/01/15 15:00	1

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: MB 680-385402/9

Matrix: Water

Analysis Batch: 385402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			06/01/15 10:25	1
Benzene	1.0	U	1.0	0.43	ug/L			06/01/15 10:25	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/01/15 10:25	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/01/15 10:25	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/01/15 10:25	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/01/15 10:25	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/01/15 10:25	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/01/15 10:25	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/01/15 10:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/01/15 10:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/01/15 10:25	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/01/15 10:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/01/15 10:25	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/01/15 10:25	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/01/15 10:25	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/01/15 10:25	1
2-Hexanone	10	U	10	2.0	ug/L			06/01/15 10:25	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/01/15 10:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/01/15 10:25	1
Styrene	1.0	U	1.0	0.27	ug/L			06/01/15 10:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/01/15 10:25	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/01/15 10:25	1
Toluene	1.0	U	1.0	0.48	ug/L			06/01/15 10:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/01/15 10:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/01/15 10:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/01/15 10:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/01/15 10:25	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/01/15 10:25	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/01/15 10:25	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/01/15 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		06/01/15 10:25	1
Dibromofluoromethane (Surr)	98		70 - 130		06/01/15 10:25	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		06/01/15 10:25	1
Toluene-d8 (Surr)	102		70 - 130		06/01/15 10:25	1

Lab Sample ID: LCS 680-385402/4

Matrix: Water

Analysis Batch: 385402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	280		ug/L		112	60 - 154
Benzene	50.0	51.0		ug/L		102	73 - 131

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCS 680-385402/4

Matrix: Water

Analysis Batch: 385402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	53.7		ug/L		107	69 - 135
Bromomethane	50.0	62.6		ug/L		125	20 - 180
2-Butanone (MEK)	250	308		ug/L		123	75 - 133
Carbon disulfide	50.0	47.9		ug/L		96	73 - 127
Carbon tetrachloride	50.0	49.1		ug/L		98	75 - 130
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120
Chlorodibromomethane	50.0	54.2		ug/L		108	71 - 136
Chloroethane	50.0	64.3		ug/L		129	50 - 151
Chloroform	50.0	51.0		ug/L		102	79 - 122
Chloromethane	50.0	54.7		ug/L		109	63 - 126
cis-1,2-Dichloroethene	50.0	52.5		ug/L		105	80 - 122
cis-1,3-Dichloropropene	50.0	54.4		ug/L		109	80 - 133
Dichlorobromomethane	50.0	51.2		ug/L		102	77 - 129
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	55.5		ug/L		111	75 - 130
1,1-Dichloroethene	50.0	50.0		ug/L		100	74 - 125
1,2-Dichloropropane	50.0	53.0		ug/L		106	80 - 123
Ethylbenzene	50.0	48.6		ug/L		97	80 - 120
2-Hexanone	250	299		ug/L		120	70 - 141
Methylene Chloride	50.0	47.8		ug/L		96	76 - 129
4-Methyl-2-pentanone (MIBK)	250	303		ug/L		121	75 - 135
Styrene	50.0	50.1		ug/L		100	80 - 122
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	72 - 128
Tetrachloroethene	50.0	51.8		ug/L		104	77 - 123
Toluene	50.0	51.8		ug/L		104	80 - 122
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	78 - 123
trans-1,3-Dichloropropene	50.0	55.5		ug/L		111	74 - 140
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	74 - 128
1,1,2-Trichloroethane	50.0	54.4		ug/L		109	79 - 125
Trichloroethene	50.0	51.3		ug/L		103	80 - 123
Vinyl chloride	50.0	49.9		ug/L		100	68 - 132
Xylenes, Total	100	98.7		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 680-385402/5

Matrix: Water

Analysis Batch: 385402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	300		ug/L		120	60 - 154	7	40
Benzene	50.0	51.7		ug/L		103	73 - 131	1	30
Bromoform	50.0	53.4		ug/L		107	69 - 135	0	20
Bromomethane	50.0	65.5		ug/L		131	20 - 180	4	40

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCSD 680-385402/5

Matrix: Water

Analysis Batch: 385402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	250	319		ug/L		128	75 - 133	4	30
Carbon disulfide	50.0	47.5		ug/L		95	73 - 127	1	20
Carbon tetrachloride	50.0	47.8		ug/L		96	75 - 130	3	20
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120	1	20
Chlorodibromomethane	50.0	55.5		ug/L		111	71 - 136	2	20
Chloroethane	50.0	64.6		ug/L		129	50 - 151	1	30
Chloroform	50.0	51.6		ug/L		103	79 - 122	1	20
Chloromethane	50.0	54.6		ug/L		109	63 - 126	0	30
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	80 - 133	3	20
Dichlorobromomethane	50.0	52.3		ug/L		105	77 - 129	2	20
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	3	20
1,2-Dichloroethane	50.0	57.1		ug/L		114	75 - 130	3	20
1,1-Dichloroethene	50.0	49.7		ug/L		99	74 - 125	1	20
1,2-Dichloropropane	50.0	54.2		ug/L		108	80 - 123	2	20
Ethylbenzene	50.0	48.2		ug/L		96	80 - 120	1	20
2-Hexanone	250	311		ug/L		124	70 - 141	4	40
Methylene Chloride	50.0	49.2		ug/L		98	76 - 129	3	20
4-Methyl-2-pentanone (MIBK)	250	315		ug/L		126	75 - 135	4	30
Styrene	50.0	49.9		ug/L		100	80 - 122	0	20
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/L		110	72 - 128	1	20
Tetrachloroethene	50.0	51.3		ug/L		103	77 - 123	1	20
Toluene	50.0	52.3		ug/L		105	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	55.9		ug/L		112	74 - 140	1	20
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	74 - 128	0	20
1,1,2-Trichloroethane	50.0	56.7		ug/L		113	79 - 125	4	20
Trichloroethene	50.0	51.5		ug/L		103	80 - 123	1	20
Vinyl chloride	50.0	49.2		ug/L		98	68 - 132	2	30
Xylenes, Total	100	97.2		ug/L		97	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 680-385589/9

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			06/02/15 14:12	1
Benzene	1.0	U	1.0	0.43	ug/L			06/02/15 14:12	1
Bromoform	1.0	U	1.0	0.43	ug/L			06/02/15 14:12	1
Bromomethane	5.0	U	5.0	2.5	ug/L			06/02/15 14:12	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			06/02/15 14:12	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			06/02/15 14:12	1

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: MB 680-385589/9

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			06/02/15 14:12	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			06/02/15 14:12	1
Chlorodibromomethane	1.0	U	1.0	0.32	ug/L			06/02/15 14:12	1
Chloroethane	5.0	U	5.0	2.5	ug/L			06/02/15 14:12	1
Chloroform	1.0	U	1.0	0.50	ug/L			06/02/15 14:12	1
Chloromethane	1.0	U	1.0	0.40	ug/L			06/02/15 14:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			06/02/15 14:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			06/02/15 14:12	1
Dichlorobromomethane	1.0	U	1.0	0.44	ug/L			06/02/15 14:12	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/02/15 14:12	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			06/02/15 14:12	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			06/02/15 14:12	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			06/02/15 14:12	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			06/02/15 14:12	1
2-Hexanone	10	U	10	2.0	ug/L			06/02/15 14:12	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			06/02/15 14:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.1	ug/L			06/02/15 14:12	1
Styrene	1.0	U	1.0	0.27	ug/L			06/02/15 14:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			06/02/15 14:12	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			06/02/15 14:12	1
Toluene	1.0	U	1.0	0.48	ug/L			06/02/15 14:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			06/02/15 14:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			06/02/15 14:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			06/02/15 14:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			06/02/15 14:12	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			06/02/15 14:12	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			06/02/15 14:12	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			06/02/15 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		06/02/15 14:12	1
Dibromofluoromethane (Surr)	101		70 - 130		06/02/15 14:12	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/15 14:12	1
Toluene-d8 (Surr)	103		70 - 130		06/02/15 14:12	1

Lab Sample ID: LCS 680-385589/4

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	243		ug/L		97	60 - 154
Benzene	50.0	51.4		ug/L		103	73 - 131
Bromoform	50.0	46.7		ug/L		93	69 - 135
Bromomethane	50.0	54.6		ug/L		109	20 - 180
2-Butanone (MEK)	250	260		ug/L		104	75 - 133
Carbon disulfide	50.0	49.6		ug/L		99	73 - 127
Carbon tetrachloride	50.0	48.5		ug/L		97	75 - 130
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCS 680-385589/4

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	50.0	49.6		ug/L		99	71 - 136
Chloroethane	50.0	64.5		ug/L		129	50 - 151
Chloroform	50.0	50.6		ug/L		101	79 - 122
Chloromethane	50.0	54.8		ug/L		110	63 - 126
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	80 - 122
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 133
Dichlorobromomethane	50.0	49.9		ug/L		100	77 - 129
1,1-Dichloroethane	50.0	51.7		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	53.0		ug/L		106	75 - 130
1,1-Dichloroethene	50.0	51.5		ug/L		103	74 - 125
1,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 123
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120
2-Hexanone	250	252		ug/L		101	70 - 141
Methylene Chloride	50.0	47.5		ug/L		95	76 - 129
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	75 - 135
Styrene	50.0	49.8		ug/L		100	80 - 122
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	72 - 128
Tetrachloroethene	50.0	52.2		ug/L		104	77 - 123
Toluene	50.0	51.6		ug/L		103	80 - 122
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	78 - 123
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	74 - 140
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	74 - 128
1,1,2-Trichloroethane	50.0	51.8		ug/L		104	79 - 125
Trichloroethene	50.0	52.6		ug/L		105	80 - 123
Vinyl chloride	50.0	52.7		ug/L		105	68 - 132
Xylenes, Total	100	99.6		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 680-385589/5

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	243		ug/L		97	60 - 154	0	40
Benzene	50.0	52.2		ug/L		104	73 - 131	2	30
Bromoform	50.0	48.2		ug/L		96	69 - 135	3	20
Bromomethane	50.0	56.0		ug/L		112	20 - 180	3	40
2-Butanone (MEK)	250	265		ug/L		106	75 - 133	2	30
Carbon disulfide	50.0	49.5		ug/L		99	73 - 127	0	20
Carbon tetrachloride	50.0	48.8		ug/L		98	75 - 130	1	20
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120	1	20
Chlorodibromomethane	50.0	50.6		ug/L		101	71 - 136	2	20
Chloroethane	50.0	64.2		ug/L		128	50 - 151	0	30

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCSD 680-385589/5

Matrix: Water

Analysis Batch: 385589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	50.0	51.5		ug/L		103	79 - 122	2	20
Chloromethane	50.0	54.2		ug/L		108	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 133	1	20
Dichlorobromomethane	50.0	50.5		ug/L		101	77 - 129	1	20
1,1-Dichloroethane	50.0	52.6		ug/L		105	80 - 120	2	20
1,2-Dichloroethane	50.0	54.0		ug/L		108	75 - 130	2	20
1,1-Dichloroethene	50.0	51.9		ug/L		104	74 - 125	1	20
1,2-Dichloropropane	50.0	52.6		ug/L		105	80 - 123	2	20
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120	1	20
2-Hexanone	250	259		ug/L		104	70 - 141	3	40
Methylene Chloride	50.0	47.9		ug/L		96	76 - 129	1	20
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	75 - 135	2	30
Styrene	50.0	50.5		ug/L		101	80 - 122	1	20
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	72 - 128	2	20
Tetrachloroethene	50.0	52.5		ug/L		105	77 - 123	0	20
Toluene	50.0	52.4		ug/L		105	80 - 122	2	20
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	74 - 140	1	20
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	74 - 128	1	20
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	79 - 125	2	20
Trichloroethene	50.0	53.4		ug/L		107	80 - 123	1	20
Vinyl chloride	50.0	52.4		ug/L		105	68 - 132	1	30
Xylenes, Total	100	100		ug/L		100	80 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	101		70 - 130

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

Lab Sample ID: MB 680-384796/6-A

Matrix: Water

Analysis Batch: 385257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	0.58	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4,5-Trichlorophenol	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4,6-Trichlorophenol	10	U	10	0.85	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dichlorophenol	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dimethylphenol	10	U	10	4.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dinitrophenol	50	U	50	10	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,4-Dinitrotoluene	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Chlorophenol	10	U	10	0.87	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Chloronaphthalene	10	U	10	0.80	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Methylnaphthalene	10	U	10	0.78	ug/L		05/27/15 15:58	05/29/15 20:59	1

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: MB 680-384796/6-A

Matrix: Water

Analysis Batch: 385257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	10	U	10	0.89	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Nitroaniline	50	U	50	1.3	ug/L		05/27/15 15:58	05/29/15 20:59	1
2-Nitrophenol	10	U	10	0.76	ug/L		05/27/15 15:58	05/29/15 20:59	1
3 & 4 Methylphenol	10	U	10	1.3	ug/L		05/27/15 15:58	05/29/15 20:59	1
3,3'-Dichlorobenzidine	60	U	60	30	ug/L		05/27/15 15:58	05/29/15 20:59	1
3-Nitroaniline	50	U	50	5.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
4,6-Dinitro-2-methylphenol	50	U	50	10	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Bromophenyl phenyl ether	10	U	10	0.77	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Chloro-3-methylphenol	10	U	10	1.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Chloroaniline	20	U	20	2.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Chlorophenyl phenyl ether	10	U	10	0.84	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Nitroaniline	50	U	50	5.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
Acenaphthene	10	U	10	0.76	ug/L		05/27/15 15:58	05/29/15 20:59	1
Acenaphthylene	10	U	10	0.85	ug/L		05/27/15 15:58	05/29/15 20:59	1
Acetophenone	10	U	10	0.57	ug/L		05/27/15 15:58	05/29/15 20:59	1
Anthracene	10	U	10	0.69	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[a]anthracene	10	U	10	0.55	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[a]pyrene	10	U	10	0.71	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[b]fluoranthene	10	U	10	2.6	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[g,h,i]perylene	10	U	10	0.87	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-chloroethoxy)methane	10	U	10	0.94	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-chloroethyl)ether	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
Bis(2-ethylhexyl) phthalate	10	U	10	1.6	ug/L		05/27/15 15:58	05/29/15 20:59	1
Chrysene	10	U	10	0.51	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dibenz(a,h)anthracene	10	U	10	1.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dibenzofuran	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1
Di-n-butyl phthalate	10	U	10	0.83	ug/L		05/27/15 15:58	05/29/15 20:59	1
Diethyl phthalate	10	U	10	0.88	ug/L		05/27/15 15:58	05/29/15 20:59	1
Dimethyl phthalate	10	U	10	0.99	ug/L		05/27/15 15:58	05/29/15 20:59	1
Di-n-octyl phthalate	10	U	10	1.4	ug/L		05/27/15 15:58	05/29/15 20:59	1
Fluoranthene	10	U	10	0.74	ug/L		05/27/15 15:58	05/29/15 20:59	1
Fluorene	10	U	10	0.96	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorobenzene	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorobutadiene	10	U	10	0.62	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		05/27/15 15:58	05/29/15 20:59	1
Hexachloroethane	10	U	10	0.76	ug/L		05/27/15 15:58	05/29/15 20:59	1
Indeno[1,2,3-cd]pyrene	10	U	10	1.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
Isophorone	10	U	10	0.90	ug/L		05/27/15 15:58	05/29/15 20:59	1
Naphthalene	10	U	10	0.70	ug/L		05/27/15 15:58	05/29/15 20:59	1
Nitrobenzene	10	U	10	0.73	ug/L		05/27/15 15:58	05/29/15 20:59	1
N-Nitrosodiphenylamine	10	U	10	0.92	ug/L		05/27/15 15:58	05/29/15 20:59	1
N-Nitrosodi-n-propylamine	10	U	10	0.72	ug/L		05/27/15 15:58	05/29/15 20:59	1
Pentachlorophenol	50	U	50	2.0	ug/L		05/27/15 15:58	05/29/15 20:59	1
Phenanthrene	10	U	10	0.77	ug/L		05/27/15 15:58	05/29/15 20:59	1
Phenol	10	U	10	0.83	ug/L		05/27/15 15:58	05/29/15 20:59	1
Pyrene	10	U	10	0.63	ug/L		05/27/15 15:58	05/29/15 20:59	1
Butyl benzyl phthalate	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: MB 680-384796/6-A

Matrix: Water

Analysis Batch: 385257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	10	U	10	0.78	ug/L		05/27/15 15:58	05/29/15 20:59	1
Carbazole	10	U	10	0.71	ug/L		05/27/15 15:58	05/29/15 20:59	1
2,6-Dinitrotoluene	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
4-Nitrophenol	50	U	50	1.9	ug/L		05/27/15 15:58	05/29/15 20:59	1
Atrazine	10	U	10	1.2	ug/L		05/27/15 15:58	05/29/15 20:59	1
Benzaldehyde	10	U	10	1.1	ug/L		05/27/15 15:58	05/29/15 20:59	1
Caprolactam	10	U	10	0.79	ug/L		05/27/15 15:58	05/29/15 20:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		39 - 124	05/27/15 15:58	05/29/15 20:59	1
2-Fluorobiphenyl	64		32 - 113	05/27/15 15:58	05/29/15 20:59	1
2-Fluorophenol (Surr)	60		26 - 109	05/27/15 15:58	05/29/15 20:59	1
Terphenyl-d14 (Surr)	63		10 - 126	05/27/15 15:58	05/29/15 20:59	1
Phenol-d5 (Surr)	62		27 - 110	05/27/15 15:58	05/29/15 20:59	1
Nitrobenzene-d5 (Surr)	60		32 - 118	05/27/15 15:58	05/29/15 20:59	1

Lab Sample ID: LCS 680-384796/7-A

Matrix: Water

Analysis Batch: 385257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	100	67.6		ug/L		68	46 - 97
2,4,5-Trichlorophenol	100	77.3		ug/L		77	53 - 114
2,4,6-Trichlorophenol	100	74.5		ug/L		74	49 - 113
2,4-Dichlorophenol	100	75.5		ug/L		76	48 - 107
2,4-Dimethylphenol	100	70.1		ug/L		70	34 - 96
2,4-Dinitrophenol	200	140		ug/L		70	33 - 128
2,4-Dinitrotoluene	100	73.7		ug/L		74	53 - 109
2-Chlorophenol	100	66.8		ug/L		67	45 - 100
2-Chloronaphthalene	100	65.8		ug/L		66	47 - 97
2-Methylnaphthalene	100	67.0		ug/L		67	43 - 95
2-Methylphenol	100	68.6		ug/L		69	46 - 102
2-Nitroaniline	100	67.7		ug/L		68	49 - 116
2-Nitrophenol	100	72.4		ug/L		72	43 - 112
3 & 4 Methylphenol	100	65.2		ug/L		65	47 - 104
3,3'-Dichlorobenzidine	100	70.8		ug/L		71	10 - 130
3-Nitroaniline	100	66.9		ug/L		67	25 - 109
4,6-Dinitro-2-methylphenol	200	151		ug/L		75	44 - 128
4-Bromophenyl phenyl ether	100	76.2		ug/L		76	50 - 110
4-Chloro-3-methylphenol	100	75.3		ug/L		75	48 - 113
4-Chloroaniline	100	55.2		ug/L		55	10 - 130
4-Chlorophenyl phenyl ether	100	71.5		ug/L		71	49 - 109
4-Nitroaniline	100	69.5		ug/L		69	44 - 119
Acenaphthene	100	69.2		ug/L		69	41 - 102
Acenaphthylene	100	70.1		ug/L		70	47 - 109
Acetophenone	100	66.5		ug/L		66	43 - 96
Anthracene	100	72.1		ug/L		72	47 - 101
Benzo[a]anthracene	100	66.2		ug/L		66	44 - 109

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCS 680-384796/7-A

Matrix: Water

Analysis Batch: 385257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	100	64.9		ug/L		65	41 - 103
Benzo[b]fluoranthene	100	67.6		ug/L		68	44 - 108
Benzo[g,h,i]perylene	100	67.2		ug/L		67	42 - 110
Benzo[k]fluoranthene	100	66.6		ug/L		67	43 - 109
Bis(2-chloroethoxy)methane	100	66.9		ug/L		67	46 - 110
Bis(2-chloroethyl)ether	100	64.9		ug/L		65	37 - 105
Bis(2-ethylhexyl) phthalate	100	59.0		ug/L		59	48 - 119
Chrysene	100	69.3		ug/L		69	44 - 112
Dibenz(a,h)anthracene	100	66.4		ug/L		66	44 - 106
Dibenzofuran	100	72.1		ug/L		72	49 - 103
Di-n-butyl phthalate	100	70.5		ug/L		71	52 - 114
Diethyl phthalate	100	73.1		ug/L		73	53 - 115
Dimethyl phthalate	100	73.7		ug/L		74	52 - 111
Di-n-octyl phthalate	100	57.6		ug/L		58	45 - 122
Fluoranthene	100	72.2		ug/L		72	46 - 104
Fluorene	100	68.6		ug/L		69	51 - 104
Hexachlorobenzene	100	72.7		ug/L		73	42 - 108
Hexachlorobutadiene	100	54.2		ug/L		54	34 - 93
Hexachlorocyclopentadiene	100	33.3		ug/L		33	10 - 130
Hexachloroethane	100	46.2		ug/L		46	31 - 81
Indeno[1,2,3-cd]pyrene	100	66.2		ug/L		66	40 - 106
Isophorone	100	69.7		ug/L		70	43 - 106
Naphthalene	100	62.6		ug/L		63	37 - 97
Nitrobenzene	100	66.3		ug/L		66	41 - 105
N-Nitrosodiphenylamine	200	140		ug/L		70	42 - 116
N-Nitrosodi-n-propylamine	100	65.6		ug/L		66	46 - 109
Pentachlorophenol	200	156		ug/L		78	36 - 143
Phenanthrene	100	71.5		ug/L		72	48 - 106
Phenol	100	57.4		ug/L		57	35 - 101
Pyrene	100	70.3		ug/L		70	46 - 108
Butyl benzyl phthalate	100	62.0		ug/L		62	53 - 117
bis (2-chloroisopropyl) ether	100	63.6		ug/L		64	36 - 113
Carbazole	100	75.1		ug/L		75	51 - 116
2,6-Dinitrotoluene	100	77.3		ug/L		77	50 - 107
4-Nitrophenol	200	120		ug/L		60	41 - 118
Atrazine	100	98.6		ug/L		99	10 - 130
Benzaldehyde	100	86.1	E	ug/L		86	10 - 152
Caprolactam	100	47.6		ug/L		48	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		39 - 124
2-Fluorobiphenyl	70		32 - 113
2-Fluorophenol (Surr)	59		26 - 109
Terphenyl-d14 (Surr)	67		10 - 126
Phenol-d5 (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	66		32 - 118

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: 680-112745-1 MS

Matrix: Water

Analysis Batch: 385515

Client Sample ID: PTP AST

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	10	U F1	99.9	37.5	F1	ug/L		38	46 - 97
2,4,5-Trichlorophenol	10	U F1	99.9	56.2		ug/L		56	53 - 114
2,4,6-Trichlorophenol	10	U	99.9	59.5		ug/L		60	49 - 113
2,4-Dichlorophenol	10	U	99.9	64.4		ug/L		64	48 - 107
2,4-Dimethylphenol	10	U	99.9	57.8		ug/L		58	34 - 96
2,4-Dinitrophenol	50	U	200	114		ug/L		57	33 - 128
2,4-Dinitrotoluene	10	U	99.9	55.9		ug/L		56	53 - 109
2-Chlorophenol	10	U	99.9	58.4		ug/L		58	45 - 100
2-Chloronaphthalene	10	U F1	99.9	37.2	F1	ug/L		37	47 - 97
2-Methylnaphthalene	10	U F1	99.9	43.9		ug/L		44	43 - 95
2-Methylphenol	10	U	99.9	58.5		ug/L		59	46 - 102
2-Nitroaniline	50	U	99.9	57.9		ug/L		58	49 - 116
2-Nitrophenol	10	U	99.9	65.2		ug/L		65	43 - 112
3 & 4 Methylphenol	10	U	99.9	58.7		ug/L		59	47 - 104
3,3'-Dichlorobenzidine	60	U F1	99.9	60	U F1	ug/L		0	10 - 130
3-Nitroaniline	50	U	99.9	49.2	J	ug/L		49	25 - 109
4,6-Dinitro-2-methylphenol	50	U	200	129		ug/L		65	44 - 128
4-Bromophenyl phenyl ether	10	U F1	99.9	39.3	F1	ug/L		39	50 - 110
4-Chloro-3-methylphenol	10	U	99.9	64.6		ug/L		65	48 - 113
4-Chloroaniline	20	U	99.9	48.2		ug/L		48	10 - 130
4-Chlorophenyl phenyl ether	10	U F1	99.9	34.1	F1	ug/L		34	49 - 109
4-Nitroaniline	50	U	99.9	50.1		ug/L		50	44 - 119
Acenaphthene	10	U F1	99.9	41.7		ug/L		42	41 - 102
Acenaphthylene	10	U F1	99.9	39.3	F1	ug/L		39	47 - 109
Acetophenone	10	U	99.9	59.4		ug/L		59	43 - 96
Anthracene	10	U F1	99.9	37.2	F1	ug/L		37	47 - 101
Benzo[a]anthracene	10	U F1	99.9	34.3	F1	ug/L		34	44 - 109
Benzo[a]pyrene	10	U F1	99.9	33.2	F1	ug/L		33	41 - 103
Benzo[b]fluoranthene	10	U F1	99.9	34.9	F1	ug/L		35	44 - 108
Benzo[g,h,i]perylene	10	U F1	99.9	34.5	F1	ug/L		35	42 - 110
Benzo[k]fluoranthene	10	U F1	99.9	33.6	F1	ug/L		34	43 - 109
Bis(2-chloroethoxy)methane	10	U	99.9	58.3		ug/L		58	46 - 110
Bis(2-chloroethyl)ether	10	U	99.9	58.8		ug/L		59	37 - 105
Bis(2-ethylhexyl) phthalate	10	U F1	99.9	35.3	F1	ug/L		35	48 - 119
Chrysene	10	U F1	99.9	33.2	F1	ug/L		33	44 - 112
Dibenz(a,h)anthracene	10	U F1	99.9	34.6	F1	ug/L		35	44 - 106
Dibenzofuran	10	U F1	99.9	38.3	F1	ug/L		38	49 - 103
Di-n-butyl phthalate	10	U F1	99.9	38.3	F1	ug/L		38	52 - 114
Diethyl phthalate	10	U F1	99.9	54.2		ug/L		54	53 - 115
Dimethyl phthalate	10	U	99.9	57.0		ug/L		57	52 - 111
Di-n-octyl phthalate	10	U F1	99.9	31.0	F1	ug/L		31	45 - 122
Fluoranthene	10	U F1	99.9	35.5	F1	ug/L		36	46 - 104
Fluorene	10	U F1	99.9	37.1	F1	ug/L		37	51 - 104
Hexachlorobenzene	10	U F1	99.9	35.7	F1	ug/L		36	42 - 108
Hexachlorobutadiene	10	U F1	99.9	24.0	F1	ug/L		24	34 - 93
Hexachlorocyclopentadiene	10	U F1	99.9	10.8		ug/L		11	10 - 130
Hexachloroethane	10	U	99.9	34.3		ug/L		34	31 - 81
Indeno[1,2,3-cd]pyrene	10	U F1	99.9	35.3	F1	ug/L		35	40 - 106

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: 680-112745-1 MS

Matrix: Water

Analysis Batch: 385515

Client Sample ID: PTP AST

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Isophorone	10	U	99.9	60.8		ug/L		61	43 - 106
Naphthalene	10	U	99.9	50.2		ug/L		50	37 - 97
Nitrobenzene	10	U	99.9	60.5		ug/L		61	41 - 105
N-Nitrosodiphenylamine	10	U	200	103		ug/L		52	42 - 116
N-Nitrosodi-n-propylamine	10	U	99.9	57.6		ug/L		58	46 - 109
Pentachlorophenol	50	U	200	106		ug/L		53	36 - 143
Phenanthrene	10	U F1	99.9	38.6	F1	ug/L		39	48 - 106
Phenol	10	U	99.9	53.7		ug/L		54	35 - 101
Pyrene	10	U F1	99.9	33.4	F1	ug/L		33	46 - 108
Butyl benzyl phthalate	10	U F1	99.9	36.9	F1	ug/L		37	53 - 117
bis (2-chloroisopropyl) ether	10	U	99.9	56.4		ug/L		56	36 - 113
Carbazole	10	U	99.9	56.9		ug/L		57	51 - 116
2,6-Dinitrotoluene	10	U	99.9	55.3		ug/L		55	50 - 107
4-Nitrophenol	50	U	200	110		ug/L		55	41 - 118
Atrazine	10	U	99.9	80.4		ug/L		81	10 - 130
Benzaldehyde	10	U	99.9	67.4		ug/L		67	10 - 152
Caprolactam	10	U F2	99.9	57.0		ug/L		57	30 - 111

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	59		39 - 124
2-Fluorobiphenyl	45		32 - 113
2-Fluorophenol (Surr)	55		26 - 109
Terphenyl-d14 (Surr)	33		10 - 126
Phenol-d5 (Surr)	52		27 - 110
Nitrobenzene-d5 (Surr)	60		32 - 118

Lab Sample ID: 680-112745-1 MSD

Matrix: Water

Analysis Batch: 385515

Client Sample ID: PTP AST

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1'-Biphenyl	10	U F1	89.9	30.5	F1	ug/L		34	46 - 97	20	50
2,4,5-Trichlorophenol	10	U F1	89.9	46.3	F1	ug/L		51	53 - 114	19	50
2,4,6-Trichlorophenol	10	U	89.9	49.7		ug/L		55	49 - 113	18	50
2,4-Dichlorophenol	10	U	89.9	52.8		ug/L		59	48 - 107	20	50
2,4-Dimethylphenol	10	U	89.9	48.0		ug/L		53	34 - 96	19	50
2,4-Dinitrophenol	50	U	180	99.2		ug/L		55	33 - 128	14	50
2,4-Dinitrotoluene	10	U	89.9	48.1		ug/L		53	53 - 109	15	50
2-Chlorophenol	10	U	89.9	50.1		ug/L		56	45 - 100	15	50
2-Chloronaphthalene	10	U F1	89.9	30.2	F1	ug/L		34	47 - 97	21	50
2-Methylnaphthalene	10	U F1	89.9	35.7	F1	ug/L		40	43 - 95	21	50
2-Methylphenol	10	U	89.9	47.5		ug/L		53	46 - 102	21	50
2-Nitroaniline	50	U	89.9	49.3		ug/L		55	49 - 116	16	50
2-Nitrophenol	10	U	89.9	55.5		ug/L		62	43 - 112	16	50
3 & 4 Methylphenol	10	U	89.9	48.2		ug/L		54	47 - 104	20	50
3,3'-Dichlorobenzidine	60	U F1	89.9	54	U F1	ug/L		0	10 - 130	NC	50
3-Nitroaniline	50	U	89.9	42.4	J	ug/L		47	25 - 109	15	50
4,6-Dinitro-2-methylphenol	50	U	180	106		ug/L		59	44 - 128	19	50

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: 680-112745-1 MSD

Matrix: Water

Analysis Batch: 385515

Client Sample ID: PTP AST

Prep Type: Total/NA

Prep Batch: 384796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	10	U F1	89.9	29.2	F1	ug/L		32	50 - 110	29	50
4-Chloro-3-methylphenol	10	U	89.9	54.9		ug/L		61	48 - 113	16	50
4-Chloroaniline	20	U	89.9	37.2		ug/L		41	10 - 130	26	50
4-Chlorophenyl phenyl ether	10	U F1	89.9	26.8	F1	ug/L		30	49 - 109	24	50
4-Nitroaniline	50	U	89.9	45.9		ug/L		51	44 - 119	9	50
Acenaphthene	10	U F1	89.9	34.5	F1	ug/L		38	41 - 102	19	50
Acenaphthylene	10	U F1	89.9	31.5	F1	ug/L		35	47 - 109	22	50
Acetophenone	10	U	89.9	50.5		ug/L		56	43 - 96	16	50
Anthracene	10	U F1	89.9	28.9	F1	ug/L		32	47 - 101	25	50
Benzo[a]anthracene	10	U F1	89.9	23.6	F1	ug/L		26	44 - 109	37	50
Benzo[a]pyrene	10	U F1	89.9	22.5	F1	ug/L		25	41 - 103	38	50
Benzo[b]fluoranthene	10	U F1	89.9	23.5	F1	ug/L		26	44 - 108	39	50
Benzo[g,h,i]perylene	10	U F1	89.9	22.1	F1	ug/L		25	42 - 110	44	50
Benzo[k]fluoranthene	10	U F1	89.9	22.0	F1	ug/L		24	43 - 109	42	50
Bis(2-chloroethoxy)methane	10	U	89.9	49.8		ug/L		55	46 - 110	16	50
Bis(2-chloroethyl)ether	10	U	89.9	50.5		ug/L		56	37 - 105	15	50
Bis(2-ethylhexyl) phthalate	10	U F1	89.9	24.4	F1	ug/L		27	48 - 119	37	50
Chrysene	10	U F1	89.9	22.9	F1	ug/L		25	44 - 112	37	50
Dibenz(a,h)anthracene	10	U F1	89.9	23.8	F1	ug/L		26	44 - 106	37	50
Dibenzofuran	10	U F1	89.9	30.7	F1	ug/L		34	49 - 103	22	50
Di-n-butyl phthalate	10	U F1	89.9	29.9	F1	ug/L		33	52 - 114	24	50
Diethyl phthalate	10	U F1	89.9	45.3	F1	ug/L		50	53 - 115	18	50
Dimethyl phthalate	10	U	89.9	50.6		ug/L		56	52 - 111	12	50
Di-n-octyl phthalate	10	U F1	89.9	20.2	F1	ug/L		22	45 - 122	42	50
Fluoranthene	10	U F1	89.9	27.3	F1	ug/L		30	46 - 104	26	50
Fluorene	10	U F1	89.9	29.9	F1	ug/L		33	51 - 104	21	50
Hexachlorobenzene	10	U F1	89.9	24.9	F1	ug/L		28	42 - 108	36	50
Hexachlorobutadiene	10	U F1	89.9	16.8	F1	ug/L		19	34 - 93	35	50
Hexachlorocyclopentadiene	10	U F1	89.9	7.13	J F1	ug/L		8	10 - 130	41	50
Hexachloroethane	10	U	89.9	28.2		ug/L		31	31 - 81	20	50
Indeno[1,2,3-cd]pyrene	10	U F1	89.9	23.4	F1	ug/L		26	40 - 106	40	50
Isophorone	10	U	89.9	49.8		ug/L		55	43 - 106	20	50
Naphthalene	10	U	89.9	42.6		ug/L		47	37 - 97	16	50
Nitrobenzene	10	U	89.9	51.7		ug/L		58	41 - 105	16	50
N-Nitrosodiphenylamine	10	U	180	83.0		ug/L		46	42 - 116	22	50
N-Nitrosodi-n-propylamine	10	U	89.9	48.8		ug/L		54	46 - 109	17	50
Pentachlorophenol	50	U	180	78.6		ug/L		44	36 - 143	30	50
Phenanthrene	10	U F1	89.9	30.2	F1	ug/L		34	48 - 106	25	50
Phenol	10	U	89.9	43.0		ug/L		48	35 - 101	22	50
Pyrene	10	U F1	89.9	25.0	F1	ug/L		28	46 - 108	29	50
Butyl benzyl phthalate	10	U F1	89.9	28.2	F1	ug/L		31	53 - 117	27	50
bis (2-chloroisopropyl) ether	10	U	89.9	48.3		ug/L		54	36 - 113	15	50
Carbazole	10	U	89.9	47.2		ug/L		52	51 - 116	19	50
2,6-Dinitrotoluene	10	U	89.9	49.4		ug/L		55	50 - 107	11	50
4-Nitrophenol	50	U	180	82.2		ug/L		46	41 - 118	29	50
Atrazine	10	U	89.9	65.0		ug/L		72	10 - 130	21	50
Benzaldehyde	10	U	89.9	54.0		ug/L		60	10 - 152	22	50
Caprolactam	10	U F2	89.9	33.1	F2	ug/L		37	30 - 111	53	50

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: 680-112745-1 MSD

Matrix: Water

Analysis Batch: 385515

Client Sample ID: PTP AST

Prep Type: Total/NA

Prep Batch: 384796

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	56		39 - 124
2-Fluorobiphenyl	43		32 - 113
2-Fluorophenol (Surr)	51		26 - 109
Terphenyl-d14 (Surr)	16		10 - 126
Phenol-d5 (Surr)	48		27 - 110
Nitrobenzene-d5 (Surr)	59		32 - 118

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-384639/1-A

Matrix: Water

Analysis Batch: 384988

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	100	ug/L		05/26/15 10:40	05/27/15 13:27	1
Antimony	20	U	20	5.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Arsenic	20	U	20	4.6	ug/L		05/26/15 10:40	05/27/15 13:27	1
Barium	10	U	10	2.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Beryllium	4.0	U	4.0	0.20	ug/L		05/26/15 10:40	05/27/15 13:27	1
Cadmium	5.0	U	5.0	2.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Calcium	500	U	500	96	ug/L		05/26/15 10:40	05/27/15 13:27	1
Chromium	10	U	10	1.2	ug/L		05/26/15 10:40	05/27/15 13:27	1
Cobalt	10	U	10	0.95	ug/L		05/26/15 10:40	05/27/15 13:27	1
Copper	20	U	20	1.9	ug/L		05/26/15 10:40	05/27/15 13:27	1
Iron	100	U	100	50	ug/L		05/26/15 10:40	05/27/15 13:27	1
Lead	10	U	10	4.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Magnesium	500	U	500	9.9	ug/L		05/26/15 10:40	05/27/15 13:27	1
Manganese	10	U	10	2.0	ug/L		05/26/15 10:40	05/27/15 13:27	1
Nickel	40	U	40	2.3	ug/L		05/26/15 10:40	05/27/15 13:27	1
Potassium	1000	U	1000	22	ug/L		05/26/15 10:40	05/27/15 13:27	1
Selenium	20	U	20	6.4	ug/L		05/26/15 10:40	05/27/15 13:27	1
Silver	10	U	10	0.89	ug/L		05/26/15 10:40	05/27/15 13:27	1
Sodium	1000	U	1000	500	ug/L		05/26/15 10:40	05/27/15 13:27	1
Thallium	25	U	25	8.8	ug/L		05/26/15 10:40	05/27/15 13:27	1
Vanadium	10	U	10	2.4	ug/L		05/26/15 10:40	05/27/15 13:27	1
Zinc	20	U	20	8.7	ug/L		05/26/15 10:40	05/27/15 13:27	1

Lab Sample ID: LCS 680-384639/2-A

Matrix: Water

Analysis Batch: 384988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	5010		ug/L		100	80 - 120
Antimony	50.0	51.0		ug/L		102	80 - 120
Arsenic	100	99.6		ug/L		100	80 - 120
Barium	100	99.7		ug/L		100	80 - 120
Beryllium	50.0	51.7		ug/L		103	80 - 120
Cadmium	50.0	51.9		ug/L		104	80 - 120

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

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

Lab Sample ID: LCS 680-384639/2-A
Matrix: Water
Analysis Batch: 384988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5000	5270		ug/L		105	80 - 120
Chromium	100	105		ug/L		105	80 - 120
Cobalt	50.0	52.3		ug/L		105	80 - 120
Copper	100	100		ug/L		100	80 - 120
Iron	5000	5090		ug/L		102	80 - 120
Lead	500	509		ug/L		102	80 - 120
Magnesium	5000	4970		ug/L		99	80 - 120
Manganese	500	523		ug/L		105	80 - 120
Nickel	100	103		ug/L		103	80 - 120
Potassium	5000	4660		ug/L		93	80 - 120
Selenium	100	99.5		ug/L		99	80 - 120
Silver	50.0	52.2		ug/L		104	80 - 120
Sodium	5000	5050		ug/L		101	80 - 120
Thallium	40.0	40.3		ug/L		101	80 - 120
Vanadium	100	102		ug/L		102	80 - 120
Zinc	100	104		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-384862/1-A
Matrix: Water
Analysis Batch: 385115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		05/27/15 13:49	05/28/15 07:39	1

Lab Sample ID: LCS 680-384862/2-A
Matrix: Water
Analysis Batch: 385115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.38		ug/L		95	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed Cup Method

Lab Sample ID: LCS 240-182950/1
Matrix: Water
Analysis Batch: 182950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97 - 103

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Method: 2540 D-2011 - Total Suspended Solids Dried at 103-105°C

Lab Sample ID: MB 680-384172/1

Matrix: Water

Analysis Batch: 384172

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L	-		05/21/15 11:49	1

Lab Sample ID: LCS 680-384172/2

Matrix: Water

Analysis Batch: 384172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	20.0	18.5		mg/L	-	93	80 - 120

Lab Sample ID: LCSD 680-384172/3

Matrix: Water

Analysis Batch: 384172

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	20.0	21.0		mg/L	-	105	80 - 120	13	25

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-384226/7

Matrix: Water

Analysis Batch: 384226

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L	-		05/21/15 14:22	1

Lab Sample ID: LCS 680-384226/1

Matrix: Water

Analysis Batch: 384226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L	-	101	90 - 110

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-384649/1-A

Matrix: Water

Analysis Batch: 384783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L	-	05/26/15 11:05	05/26/15 16:04	1

Lab Sample ID: LCS 680-384649/2-A

Matrix: Water

Analysis Batch: 384783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0815		mg/L	-	82	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Method: 420.1 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 680-384649/3-A

Matrix: Water

Analysis Batch: 384783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 384649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.100	0.0761		mg/L		76	75 - 125	7	30

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 680-384489/7

Matrix: Water

Analysis Batch: 384489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.080		SU		101	63 - 158

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-384370/1

Matrix: Water

Analysis Batch: 384370

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			05/22/15 11:15	1

Lab Sample ID: LCS 680-384370/2

Matrix: Water

Analysis Batch: 384370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	11.8		mg/L		118	75 - 125

Lab Sample ID: LCSD 680-384370/3

Matrix: Water

Analysis Batch: 384370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	10.0	11.8		mg/L		118	75 - 125	0	30

Lab Sample ID: 680-112745-1 DU

Matrix: Water

Analysis Batch: 384370

Client Sample ID: PTP AST

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.0	U	1.35		mg/L		NC	30

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Method: 5210B-2011 - BOD, 5-Day

Lab Sample ID: USB 680-384258/1

Matrix: Water

Analysis Batch: 384258

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L	-		05/21/15 09:11	1

Lab Sample ID: LCS 680-384258/2

Matrix: Water

Analysis Batch: 384258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	2.0	U *	mg/L	-	-9	85 - 115

Lab Sample ID: LCSD 680-384258/3

Matrix: Water

Analysis Batch: 384258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	2.0	U *	mg/L	-	-8	85 - 115	13	30

Lab Sample ID: USB 680-385295/1

Matrix: Water

Analysis Batch: 385295

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L	-		05/28/15 13:56	1

Lab Sample ID: LCS 680-385295/2

Matrix: Water

Analysis Batch: 385295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	205		mg/L	-	103	85 - 115

Lab Sample ID: LCSD 680-385295/3

Matrix: Water

Analysis Batch: 385295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	202		mg/L	-	102	85 - 115	1	30

Method: 5220D-2011 - Chemical Oxygen Demand

Lab Sample ID: MB 680-384679/3

Matrix: Water

Analysis Batch: 384679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	10	5.0	mg/L	-		05/26/15 13:00	1

TestAmerica Savannah

QC Sample Results

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Method: 5220D-2011 - Chemical Oxygen Demand (Continued)

Lab Sample ID: LCS 680-384679/4

Matrix: Water

Analysis Batch: 384679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	48.6		mg/L		97	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-384246/2

Matrix: Water

Analysis Batch: 384246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010	0.0030	mg/L			05/21/15 12:14	1

Lab Sample ID: LCS 680-384246/1

Matrix: Water

Analysis Batch: 384246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.200	0.188		mg/L		94	85 - 115

Lab Sample ID: 680-112745-1 MS

Matrix: Water

Analysis Batch: 384246

Client Sample ID: PTP AST

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.010	U	0.200	0.189		mg/L		94	85 - 115

Lab Sample ID: 680-112745-1 MSD

Matrix: Water

Analysis Batch: 384246

Client Sample ID: PTP AST

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chromium, hexavalent	0.010	U	0.200	0.188		mg/L		94	85 - 115	0	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-384598/1-A

Matrix: Water

Analysis Batch: 384675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		05/26/15 07:30	05/26/15 12:23	1

Lab Sample ID: LCS 680-384598/2-A

Matrix: Water

Analysis Batch: 384675

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0528		mg/L		106	85 - 115

TestAmerica Savannah

QC Association Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

GC/MS VOA

Analysis Batch: 385402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-2	Trip Blank	Total/NA	Water	8260B	
LCS 680-385402/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-385402/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-385402/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 385589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	8260B	
LCS 680-385589/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-385589/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-385589/9	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 384796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	3520C	
680-112745-1 MS	PTP AST	Total/NA	Water	3520C	
680-112745-1 MSD	PTP AST	Total/NA	Water	3520C	
LCS 680-384796/7-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-384796/6-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 385257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-384796/7-A	Lab Control Sample	Total/NA	Water	8270D	384796
MB 680-384796/6-A	Method Blank	Total/NA	Water	8270D	384796

Analysis Batch: 385515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	8270D	384796
680-112745-1 MS	PTP AST	Total/NA	Water	8270D	384796
680-112745-1 MSD	PTP AST	Total/NA	Water	8270D	384796

Metals

Prep Batch: 384639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	3010A	
LCS 680-384639/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-384639/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 384862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7470A	
LCS 680-384862/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-384862/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 384988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	6010C	384639

TestAmerica Savannah

QC Association Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Metals (Continued)

Analysis Batch: 384988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-384639/2-A	Lab Control Sample	Total/NA	Water	6010C	384639
MB 680-384639/1-A	Method Blank	Total/NA	Water	6010C	384639

Analysis Batch: 385115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7470A	384862
LCS 680-384862/2-A	Lab Control Sample	Total/NA	Water	7470A	384862
MB 680-384862/1-A	Method Blank	Total/NA	Water	7470A	384862

General Chemistry

Analysis Batch: 182950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	1010A	
LCS 240-182950/1	Lab Control Sample	Total/NA	Water	1010A	

Analysis Batch: 384172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	2540 D-2011	
LCS 680-384172/2	Lab Control Sample	Total/NA	Water	2540 D-2011	
LCSD 680-384172/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	
MB 680-384172/1	Method Blank	Total/NA	Water	2540 D-2011	

Analysis Batch: 384226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	350.1	
LCS 680-384226/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-384226/7	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 384246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	7196A	
680-112745-1 MS	PTP AST	Total/NA	Water	7196A	
680-112745-1 MSD	PTP AST	Total/NA	Water	7196A	
LCS 680-384246/1	Lab Control Sample	Total/NA	Water	7196A	
MB 680-384246/2	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 384258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5210B-2011	
LCS 680-384258/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-384258/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-384258/1	Method Blank	Total/NA	Water	5210B-2011	

Analysis Batch: 384370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	4500 S2 F-2011	
680-112745-1 DU	PTP AST	Total/NA	Water	4500 S2 F-2011	
LCS 680-384370/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-384370/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	

TestAmerica Savannah

QC Association Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

General Chemistry (Continued)

Analysis Batch: 384370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-384370/1	Method Blank	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 384489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	4500 H+ B-2011	
LCS 680-384489/7	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Prep Batch: 384598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	9012B	
LCS 680-384598/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 680-384598/1-A	Method Blank	Total/NA	Water	9012B	

Prep Batch: 384649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	Distill/Phenol	
LCS 680-384649/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
LCSD 680-384649/3-A	Lab Control Sample Dup	Total/NA	Water	Distill/Phenol	
MB 680-384649/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

Analysis Batch: 384675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	9012B	384598
LCS 680-384598/2-A	Lab Control Sample	Total/NA	Water	9012B	384598
MB 680-384598/1-A	Method Blank	Total/NA	Water	9012B	384598

Analysis Batch: 384679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5220D-2011	
LCS 680-384679/4	Lab Control Sample	Total/NA	Water	5220D-2011	
MB 680-384679/3	Method Blank	Total/NA	Water	5220D-2011	

Analysis Batch: 384783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	420.1	384649
LCS 680-384649/2-A	Lab Control Sample	Total/NA	Water	420.1	384649
LCSD 680-384649/3-A	Lab Control Sample Dup	Total/NA	Water	420.1	384649
MB 680-384649/1-A	Method Blank	Total/NA	Water	420.1	384649

Analysis Batch: 385295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-112745-1	PTP AST	Total/NA	Water	5210B-2011	
LCS 680-385295/2	Lab Control Sample	Total/NA	Water	5210B-2011	
LCSD 680-385295/3	Lab Control Sample Dup	Total/NA	Water	5210B-2011	
USB 680-385295/1	Method Blank	Total/NA	Water	5210B-2011	

TestAmerica Savannah

Lab Chronicle

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Client Sample ID: PTP AST

Date Collected: 05/20/15 13:30

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	385589	06/02/15 17:47	RWB	TAL SAV
Total/NA	Prep	3520C			384796	05/27/15 15:58	RBS	TAL SAV
Total/NA	Analysis	8270D		1	385515	06/02/15 00:27	RAM	TAL SAV
Total/NA	Prep	3010A			384639	05/26/15 10:40	CRW	TAL SAV
Total/NA	Analysis	6010C		1	384988	05/27/15 15:23	BCB	TAL SAV
Total/NA	Prep	7470A			384862	05/27/15 13:49	JKL	TAL SAV
Total/NA	Analysis	7470A		10	385115	05/28/15 09:34	JKL	TAL SAV
Total/NA	Analysis	1010A		1	182950	05/29/15 09:00	BLW	TAL CAN
Total/NA	Analysis	2540 D-2011		1	384172	05/21/15 12:47	LBH	TAL SAV
Total/NA	Analysis	350.1		1	384226	05/21/15 14:22	JME	TAL SAV
Total/NA	Prep	Distill/Phenol			384649	05/26/15 11:05	JME	TAL SAV
Total/NA	Analysis	420.1		1	384783	05/26/15 15:11	JME	TAL SAV
Total/NA	Analysis	4500 H+ B-2011		1	384489	05/23/15 07:56	OLB	TAL SAV
Total/NA	Analysis	4500 S2 F-2011		1	384370	05/22/15 11:15	JRJ	TAL SAV
Total/NA	Analysis	5210B-2011		1	384258	05/21/15 16:42	LBH	TAL SAV
Total/NA	Analysis	5210B-2011		1	385295	05/28/15 18:46	OLB	TAL SAV
Total/NA	Analysis	5220D-2011		2	384679	05/26/15 13:00	JRJ	TAL SAV
Total/NA	Analysis	7196A		1	384246	05/21/15 12:14	GRX	TAL SAV
Total/NA	Prep	9012B			384598	05/26/15 07:30	DAM	TAL SAV
Total/NA	Analysis	9012B		1	384675	05/26/15 12:32	DAM	TAL SAV

Client Sample ID: Trip Blank

Date Collected: 05/20/15 00:00

Date Received: 05/21/15 09:12

Lab Sample ID: 680-112745-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	385402	06/01/15 15:00	JD1	TAL SAV

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-15 *
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-15
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-15 *
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-15 *
Georgia	State Program	4	803	06-30-15 *
Guam	State Program	9	14-004r	04-16-15 *
Hawaii	State Program	9	N/A	06-30-15 *
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15 *
Iowa	State Program	7	353	07-01-15 *
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-15 *
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-15 *
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-15 *
Michigan	State Program	5	9925	06-30-15 *
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15 *
New Jersey	NELAP	2	GA769	06-30-15 *
New Mexico	State Program	6	N/A	06-30-15 *
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-15 *
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-15 *
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-15 *
Washington	State Program	10	C805	06-10-15 *
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-15 *
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15 *

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

* Certification renewal pending - certification considered valid.

TestAmerica Savannah

Certification Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Laboratory: TestAmerica Canton (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Savannah

Method Summary

Client: Ashland Inc
Project/Site: Hercules Glens Falls AST Waste Char.

TestAmerica Job ID: 680-112745-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
1010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL CAN
2540 D-2011	Total Suspended Solids Dried at 103-105°C	SM	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
4500 H+ B-2011	pH	SM	TAL SAV
4500 S2 F-2011	Sulfide, Total	SM	TAL SAV
5210B-2011	BOD, 5-Day	SM	TAL SAV
5220D-2011	Chemical Oxygen Demand	SM	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
9012B	Cyanide, Total and/or Amenable	SW846	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

6/4/2015

Login Sample Receipt Checklist

Client: Ashland Inc

Job Number: 680-112745-1

Login Number: 112745

List Source: TestAmerica Savannah

List Number: 1

Creator: White, Menica R

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



ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

October 21, 2015

Analytical Report for Service Request No: R1508835

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr. Schumacher:

Enclosed are the results of the sample(s) submitted to our laboratory on October 15, 2015. For your reference, these analyses have been assigned our service request number **R1508835**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa Reyes
Project Manager

Page 1 of 40

ALS Environmental

Client: Antea USA Inc.
Service Request No.: R1508835
Project: Queensbury
Date Received: 10/14/15
Sample Matrix: Water
Project/Case No.:

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Two (2) water samples and one (1) Trip Blank were received for analysis at ALS Environmental on 10/14/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

The Continuing Calibration Verification (CCV) standard exceeded 20% difference for 1,4-Dioxane, Bromomethane, Chloroethane, Chloromethane and Vinyl Chloride on 10/15/15Run. All detected concentrations for these compounds in samples associated with their relevant CCV should be considered as estimated.

The Method Blank was free from contamination.

The Laboratory Control Sample (LCS) recoveries were outside of the control limits high for 2-Hexanone, Chloroethane and Chloromethane. All exceedences have been flagged with a “*”. No data was affected for these possible high bias recoveries.

The samples were properly preserved and analyzed within the appropriate holding times for the method.

No other analytical or quality control problems were encountered during analysis.

SemiVolatile Organics

The Continuing Calibration Verification (CCV) standard exceeded 20% difference for Benzaldehyde on the 10/19/15Run. All detected concentrations for these compounds in samples associated with their relevant CCV should be considered as estimated.

The Method Blank was free from contamination.

The Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries were outside of the control limits high on the LCS or LCSD for several compounds. Several RPD's were outside limits. All exceedences have been flagged with a “*”. No data was affected for these possible high bias recoveries.

The samples were properly preserved and analyzed within the appropriate holding times for the method.

No other analytical or quality control problems were encountered during analysis.

Inorganics & Metals

The LCS recoveries were acceptable for all analytes.

The Method Blanks were free of contamination.

The samples were properly preserved and analyzed within the appropriate holding times for the method. The pH data has been flagged as "H" with its associated temperature since the samples were analyzed outside the "immediate" holding time for this analysis. The samples are analyzed as soon as possible upon receipt in the lab.

No analytical or quality control problems were encountered during analysis.

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1508835

<u>Lab ID</u>	<u>Client ID</u>
R1508835-001	FRAC-1
R1508835-002	FRAC-3
R1508835-003	TRIP BLANK

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID # NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	Pennsylvania ID# 68-786
DoD ELAP #65817	New Jersey ID # NY004	Rhode Island ID # 158
Florida ID # E87674	New York ID # 10145	Virginia #460167
Illinois ID #200047	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.050	U	mg/L	0.050	10	NA	10/19/15 00:58	
Chemical Oxygen Demand, Total	410.4	16.7		mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	10/16/15	10/19/15 10:37	
pH	SM 4500-H+ B	8.11		pH Units		1	NA	10/15/15 18:35	H
Phenolics, Total Recoverable	420.4 Modified	0.0077		mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.6		mg/L	1.0	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0	U	mg/L	1.0	1	NA	10/16/15 11:15	
Temperature of pH Analysis	SM 4500-H+ B	20.2		deg C		1	NA	10/15/15 18:35	H

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Aluminum, Total	6010C	0.10	U	mg/L	0.10	1	10/15/15	10/18/15 15:22	
Antimony, Total	6010C	0.060	U	mg/L	0.060	1	10/15/15	10/18/15 15:22	
Arsenic, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:22	
Barium, Total	6010C	0.861		mg/L	0.020	1	10/15/15	10/18/15 15:22	
Beryllium, Total	6010C	0.0030	U	mg/L	0.0030	1	10/15/15	10/18/15 15:22	
Cadmium, Total	6010C	0.0050	U	mg/L	0.0050	1	10/15/15	10/18/15 15:22	
Calcium, Total	6010C	25.3		mg/L	1.0	1	10/15/15	10/18/15 15:22	
Chromium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:22	
Cobalt, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:22	
Copper, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:22	
Iron, Total	6010C	0.63		mg/L	0.10	1	10/15/15	10/18/15 15:22	
Lead, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:22	
Magnesium, Total	6010C	2.3		mg/L	1.0	1	10/15/15	10/18/15 15:22	
Manganese, Total	6010C	0.012		mg/L	0.010	1	10/15/15	10/18/15 15:22	
Mercury, Total	7470A	0.00020	U	mg/L	0.00020	1	10/15/15	10/16/15 12:06	
Nickel, Total	6010C	0.040	U	mg/L	0.040	1	10/15/15	10/18/15 15:22	
Potassium, Total	6010C	2.0	U	mg/L	2.0	1	10/15/15	10/18/15 15:22	
Selenium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:22	
Silver, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:22	
Sodium, Total	6010C	1.0	U	mg/L	1.0	1	10/15/15	10/18/15 15:22	
Thallium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:22	
Vanadium, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:22	
Zinc, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2,3-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2,4-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 14:29		467145	
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 14:29		467145	
2-Hexanone	10	U	10	1	NA	10/15/15 14:29		467145	
4-Methyl-2-pentanone	10	U	10	1	NA	10/15/15 14:29		467145	
Acetone	10	U	10	1	NA	10/15/15 14:29		467145	
Benzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Bromodichloromethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Carbon Disulfide	10	U	10	1	NA	10/15/15 14:29		467145	
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Chlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Chloroethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Chloromethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Cyclohexane	10	U	10	1	NA	10/15/15 14:29		467145	
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 14:29		467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 14:29		467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:29		467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	10/15/15 14:29	
Dibromofluoromethane	96	89-119	10/15/15 14:29	
Toluene-d8	101	87-121	10/15/15 14:29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,3,4,6-Tetrachlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4,5-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4,6-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dimethylphenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dinitrophenol	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
2,4-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2,6-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Chloronaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Chlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Methylnaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
2-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
2-Nitrophenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
3,3'-Dichlorobenzidine	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
3- and 4-Methylphenol Coelution	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
3-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
4,6-Dinitro-2-methylphenol	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
4-Bromophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chloro-3-methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chloroaniline	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Chlorophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
4-Nitroaniline	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
4-Nitrophenol	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
Acenaphthene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Acenaphthylene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Acetophenone	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Anthracene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Atrazine	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Benz(a)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Benzaldehyde	47	U	47	1	10/15/15	10/19/15 19:34	247341	467903	
Benzo(a)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Benzo(b)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Benzo(g,h,i)perylene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Benzo(k)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Biphenyl	9.4	U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Caprolactam	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Carbazole	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Chrysene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Di-n-butyl Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Dibenzofuran	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Diethyl Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Dimethyl Phthalate	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Fluoranthene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Fluorene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Hexachlorobenzene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Hexachlorobutadiene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Hexachloroethane	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Isophorone	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Naphthalene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Nitrobenzene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Pentachlorophenol (PCP)	47 U	47	1	10/15/15	10/19/15 19:34	247341	467903	
Phenanthrene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Phenol	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	
Pyrene	9.4 U	9.4	1	10/15/15	10/19/15 19:34	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508835-001

Service Request: R1508835
Date Collected: 10/14/15 1110
Date Received: 10/15/15
Units: Percent
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	57	28-157	10/19/15 19:34	
2-Fluorobiphenyl	76	39-119	10/19/15 19:34	
2-Fluorophenol	46	10-105	10/19/15 19:34	
Nitrobenzene-d5	103	37-117	10/19/15 19:34	
Phenol-d6	39	10-107	10/19/15 19:34	
Terphenyl-d14	97	40-133	10/19/15 19:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.050	U	mg/L	0.050	10	NA	10/16/15 21:32	
Chemical Oxygen Demand, Total	410.4	25.6		mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	10/16/15	10/19/15 10:38	
pH	SM 4500-H+ B	8.11		pH Units		1	NA	10/15/15 18:35	H
Phenolics, Total Recoverable	420.4 Modified	0.0069		mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	6.6		mg/L	3.4	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0	U	mg/L	1.0	1	NA	10/16/15 11:15	
Temperature of pH Analysis	SM 4500-H+ B	20.3		deg C		1	NA	10/15/15 18:35	H

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Aluminum, Total	6010C	0.17		mg/L	0.10	1	10/15/15	10/18/15 15:28	
Antimony, Total	6010C	0.060	U	mg/L	0.060	1	10/15/15	10/18/15 15:28	
Arsenic, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:28	
Barium, Total	6010C	0.890		mg/L	0.020	1	10/15/15	10/18/15 15:28	
Beryllium, Total	6010C	0.0030	U	mg/L	0.0030	1	10/15/15	10/18/15 15:28	
Cadmium, Total	6010C	0.0050	U	mg/L	0.0050	1	10/15/15	10/18/15 15:28	
Calcium, Total	6010C	25.9		mg/L	1.0	1	10/15/15	10/18/15 15:28	
Chromium, Total	6010C	0.021		mg/L	0.010	1	10/15/15	10/18/15 15:28	
Cobalt, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:28	
Copper, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:28	
Iron, Total	6010C	1.10		mg/L	0.10	1	10/15/15	10/18/15 15:28	
Lead, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:28	
Magnesium, Total	6010C	2.4		mg/L	1.0	1	10/15/15	10/18/15 15:28	
Manganese, Total	6010C	0.015		mg/L	0.010	1	10/15/15	10/18/15 15:28	
Mercury, Total	7470A	0.00020	U	mg/L	0.00020	1	10/15/15	10/16/15 12:08	
Nickel, Total	6010C	0.040	U	mg/L	0.040	1	10/15/15	10/18/15 15:28	
Potassium, Total	6010C	2.0	U	mg/L	2.0	1	10/15/15	10/18/15 15:28	
Selenium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:28	
Silver, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:28	
Sodium, Total	6010C	1.0	U	mg/L	1.0	1	10/15/15	10/18/15 15:28	
Thallium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:28	
Vanadium, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:28	
Zinc, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:28	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2,3-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2,4-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 14:53		467145	
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 14:53		467145	
2-Hexanone	10	U	10	1	NA	10/15/15 14:53		467145	
4-Methyl-2-pentanone	10	U	10	1	NA	10/15/15 14:53		467145	
Acetone	10	U	10	1	NA	10/15/15 14:53		467145	
Benzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Bromodichloromethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Carbon Disulfide	10	U	10	1	NA	10/15/15 14:53		467145	
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Chlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Chloroethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Chloromethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Cyclohexane	10	U	10	1	NA	10/15/15 14:53		467145	
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 14:53		467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 14:53		467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:53		467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	10/15/15 14:53	
Dibromofluoromethane	95	89-119	10/15/15 14:53	
Toluene-d8	101	87-121	10/15/15 14:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,3,4,6-Tetrachlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4,5-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4,6-Trichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dichlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dimethylphenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dinitrophenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
2,4-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2,6-Dinitrotoluene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Chloronaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Chlorophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Methylnaphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
2-Nitroaniline	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
2-Nitrophenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3,3'-Dichlorobenzidine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3- and 4-Methylphenol Coelution	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
3-Nitroaniline	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4,6-Dinitro-2-methylphenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4-Bromophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chloro-3-methylphenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chloroaniline	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Chlorophenyl Phenyl Ether	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
4-Nitroaniline	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
4-Nitrophenol	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
Acenaphthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Acenaphthylene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Acetophenone	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Anthracene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Atrazine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benz(a)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzaldehyde	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(a)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(b)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(g,h,i)perylene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Benzo(k)fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Biphenyl	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Bis(2-chloroethoxy)methane	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Bis(2-chloroethyl) Ether	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Butyl Benzyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Caprolactam	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Carbazole	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Chrysene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Di-n-butyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Di-n-octyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Dibenz(a,h)anthracene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Dibenzofuran	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Diethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Dimethyl Phthalate	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Fluoranthene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Fluorene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachlorobenzene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachlorobutadiene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachlorocyclopentadiene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Hexachloroethane	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Indeno(1,2,3-cd)pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Isophorone	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
N-Nitrosodi-n-propylamine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
N-Nitrosodiphenylamine	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Naphthalene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Nitrobenzene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Pentachlorophenol (PCP)	47	U	47	1	10/15/15	10/19/15 20:00	247341	467903	
Phenanthrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Phenol	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	
Pyrene	9.4	U	9.4	1	10/15/15	10/19/15 20:00	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508835-002

Service Request: R1508835
Date Collected: 10/14/15 1120
Date Received: 10/15/15
Units: Percent
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	54	28-157	10/19/15 20:00	
2-Fluorobiphenyl	78	39-119	10/19/15 20:00	
2-Fluorophenol	34	10-105	10/19/15 20:00	
Nitrobenzene-d5	50	37-117	10/19/15 20:00	
Phenol-d6	23	10-107	10/19/15 20:00	
Terphenyl-d14	92	40-133	10/19/15 20:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Sample Name: TRIP BLANK
Lab Code: R1508835-003

Service Request: R1508835
Date Collected: 10/14/15
Date Received: 10/15/15

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2,3-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2,4-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 14:05		467145	
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 14:05		467145	
2-Hexanone	10	U	10	1	NA	10/15/15 14:05		467145	
4-Methyl-2-pentanone	10	U	10	1	NA	10/15/15 14:05		467145	
Acetone	10	U	10	1	NA	10/15/15 14:05		467145	
Benzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Bromodichloromethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Bromoform	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Carbon Disulfide	10	U	10	1	NA	10/15/15 14:05		467145	
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Chlorobenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Chloroethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Chloroform	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Chloromethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Cyclohexane	10	U	10	1	NA	10/15/15 14:05		467145	
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: TRIP BLANK
Lab Code: R1508835-003

Service Request: R1508835
Date Collected: 10/14/15
Date Received: 10/15/15
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 14:05		467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 14:05		467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 14:05		467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	10/15/15 14:05	
Dibromofluoromethane	93	89-119	10/15/15 14:05	
Toluene-d8	98	87-121	10/15/15 14:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1508835-MB1

Service Request: R1508835
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	NA	10/16/15 14:51	
Chemical Oxygen Demand, Total	410.4	5.0	U	mg/L	5.0	1	NA	10/16/15 09:09	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	10/15/15 10:59	
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	10/16/15	10/19/15 10:26	
Phenolics, Total Recoverable	420.4 Modified	0.0050	U	mg/L	0.0050	1	NA	10/15/15 09:25	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0	U	mg/L	1.0	1	NA	10/15/15 18:48	
Sulfide	SM 4500-S2-F-2000(20	1.0	U	mg/L	1.0	1	NA	10/16/15 11:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1508835-MB2

Service Request: R1508835
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	NA	10/18/15 23:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1508835-MB

Service Request: R1508835
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Aluminum, Total	6010C	0.10	U	mg/L	0.10	1	10/15/15	10/18/15 15:11	
Antimony, Total	6010C	0.060	U	mg/L	0.060	1	10/15/15	10/18/15 15:11	
Arsenic, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Barium, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:11	
Beryllium, Total	6010C	0.0030	U	mg/L	0.0030	1	10/15/15	10/18/15 15:11	
Cadmium, Total	6010C	0.0050	U	mg/L	0.0050	1	10/15/15	10/18/15 15:11	
Calcium, Total	6010C	1.0	U	mg/L	1.0	1	10/15/15	10/18/15 15:11	
Chromium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Cobalt, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:11	
Copper, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:11	
Iron, Total	6010C	0.10	U	mg/L	0.10	1	10/15/15	10/18/15 15:11	
Lead, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:11	
Magnesium, Total	6010C	1.0	U	mg/L	1.0	1	10/15/15	10/18/15 15:11	
Manganese, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Mercury, Total	7470A	0.00020	U	mg/L	0.00020	1	10/15/15	10/16/15 11:25	
Nickel, Total	6010C	0.040	U	mg/L	0.040	1	10/15/15	10/18/15 15:11	
Potassium, Total	6010C	2.0	U	mg/L	2.0	1	10/15/15	10/18/15 15:11	
Selenium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Silver, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Sodium, Total	6010C	1.0	U	mg/L	1.0	1	10/15/15	10/18/15 15:11	
Thallium, Total	6010C	0.010	U	mg/L	0.010	1	10/15/15	10/18/15 15:11	
Vanadium, Total	6010C	0.050	U	mg/L	0.050	1	10/15/15	10/18/15 15:11	
Zinc, Total	6010C	0.020	U	mg/L	0.020	1	10/15/15	10/18/15 15:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ1512610-01

Service Request: R1508835
Date Collected: NA
Date Received: NA

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2,3-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2,4-Trichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2-Dibromo-3-chloropropane (DBCP)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2-Dibromoethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2-Dichloroethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,2-Dichloropropane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,3-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,4-Dichlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
1,4-Dioxane	100	U	100	1	NA	10/15/15 10:51		467145	
2-Butanone (MEK)	10	U	10	1	NA	10/15/15 10:51		467145	
2-Hexanone	10	U	10	1	NA	10/15/15 10:51		467145	
4-Methyl-2-pentanone	10	U	10	1	NA	10/15/15 10:51		467145	
Acetone	10	U	10	1	NA	10/15/15 10:51		467145	
Benzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Bromochloromethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Bromodichloromethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Bromoform	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Bromomethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Carbon Disulfide	10	U	10	1	NA	10/15/15 10:51		467145	
Carbon Tetrachloride	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Chlorobenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Chloroethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Chloroform	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Chloromethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Cyclohexane	10	U	10	1	NA	10/15/15 10:51		467145	
Dibromochloromethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Dichlorodifluoromethane (CFC 12)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Dichloromethane	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Ethylbenzene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1512610-01

Service Request: R1508835
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Methyl Acetate	10	U	10	1	NA	10/15/15 10:51		467145	
Methyl tert-Butyl Ether	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Methylcyclohexane	10	U	10	1	NA	10/15/15 10:51		467145	
Styrene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Tetrachloroethene (PCE)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Toluene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Trichloroethene (TCE)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
Vinyl Chloride	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
m,p-Xylenes	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
o-Xylene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	10/15/15 10:51		467145	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	10/15/15 10:51	
Dibromofluoromethane	94	89-119	10/15/15 10:51	
Toluene-d8	97	87-121	10/15/15 10:51	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1512449-01

Service Request: R1508835
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,2,4,5-Tetrachlorobenzene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,3,4,6-Tetrachlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4,5-Trichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4,6-Trichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dichlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dimethylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dinitrophenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
2,4-Dinitrotoluene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2,6-Dinitrotoluene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Chloronaphthalene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Chlorophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Methylnaphthalene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Methylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
2-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
2-Nitrophenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3,3'-Dichlorobenzidine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3- and 4-Methylphenol Coelution	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
3-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4,6-Dinitro-2-methylphenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4-Bromophenyl Phenyl Ether	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chloro-3-methylphenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chloroaniline	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Chlorophenyl Phenyl Ether	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
4-Nitroaniline	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
4-Nitrophenol	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
Acenaphthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Acenaphthylene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Acetophenone	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Anthracene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Atrazine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benz(a)anthracene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzaldehyde	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(a)pyrene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(b)fluoranthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(g,h,i)perylene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Benzo(k)fluoranthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Biphenyl	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1512449-01

Service Request: R1508835
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,2'-Oxybis(1-chloropropane)	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Bis(2-chloroethoxy)methane	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Bis(2-chloroethyl) Ether	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Bis(2-ethylhexyl) Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Butyl Benzyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Caprolactam	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Carbazole	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Chrysene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Di-n-butyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Di-n-octyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Dibenz(a,h)anthracene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Dibenzofuran	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Diethyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Dimethyl Phthalate	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Fluoranthene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Fluorene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Hexachlorobenzene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Hexachlorobutadiene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Hexachlorocyclopentadiene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Hexachloroethane	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Indeno(1,2,3-cd)pyrene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Isophorone	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
N-Nitrosodi-n-propylamine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
N-Nitrosodiphenylamine	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Naphthalene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Nitrobenzene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Pentachlorophenol (PCP)	50	U	50	1	10/15/15	10/19/15 18:17	247341	467903	
Phenanthrene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Phenol	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	
Pyrene	10	U	10	1	10/15/15	10/19/15 18:17	247341	467903	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1512449-01

Service Request: R1508835
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	103	28-157	10/19/15 18:17	
2-Fluorobiphenyl	79	39-119	10/19/15 18:17	
2-Fluorophenol	54	10-105	10/19/15 18:17	
Nitrobenzene-d5	112	37-117	10/19/15 18:17	
Phenol-d6	42	10-107	10/19/15 18:17	
Terphenyl-d14	128	40-133	10/19/15 18:17	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/15/15 -
 10/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample R1508835-LCS1					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.524	0.500	105	90 - 110
Chemical Oxygen Demand, Total	410.4	50.4	50.0	101	90 - 110
Chromium, Hexavalent	7196A	0.0966	0.100	97	80 - 120
Cyanide, Total	9012B	0.104	0.100	104	85 - 115
Phenolics, Total Recoverable	420.4 Modified	0.0394	0.0400	98	90 - 110
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	203	214	95	80 - 120
Sulfide	SM 4500-S2-F-2000(20	3.30	3.2	104	67 - 143

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental**QA/QC Report**

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/18/15 -
10/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample R1508835-LCS2					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.501	0.500	100	90 - 110
Cyanide, Total	9012B	0.403	0.400	101	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/16/15 -
 10/18/15

**Lab Control Sample Summary
 Inorganic Parameters**

Units: mg/L
Basis: NA

Lab Control Sample R1508835-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.87	2.00	93	80 - 120
Antimony, Total	6010C	0.419	0.500	84	80 - 120
Arsenic, Total	6010C	0.0435	0.040	109	80 - 120
Barium, Total	6010C	2.11	2.00	105	80 - 120
Beryllium, Total	6010C	0.0495	0.0500	99	80 - 120
Cadmium, Total	6010C	0.0517	0.0500	103	80 - 120
Calcium, Total	6010C	2.04	2.0	102	80 - 120
Chromium, Total	6010C	0.211	0.200	106	80 - 120
Cobalt, Total	6010C	0.510	0.500	102	80 - 120
Copper, Total	6010C	0.270	0.250	108	80 - 120
Iron, Total	6010C	1.07	1.00	107	80 - 120
Lead, Total	6010C	0.521	0.500	104	80 - 120
Magnesium, Total	6010C	2.07	2.0	104	80 - 120
Manganese, Total	6010C	0.515	0.500	103	80 - 120
Mercury, Total	7470A	0.00100	0.00100	100	80 - 120
Nickel, Total	6010C	0.520	0.500	104	80 - 120
Potassium, Total	6010C	17.6	20.0	88	80 - 120
Selenium, Total	6010C	0.979	1.01	97	80 - 120
Silver, Total	6010C	0.0553	0.050	111	80 - 120
Sodium, Total	6010C	19.2	20.0	96	80 - 120
Thallium, Total	6010C	2.05	2.00	103	80 - 120
Vanadium, Total	6010C	0.496	0.500	99	80 - 120
Zinc, Total	6010C	0.526	0.500	105	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/15/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 467145

Lab Control Sample RQ1512610-02				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	17.8	20.0	89	74 - 120
1,1,2,2-Tetrachloroethane	22.7	20.0	113	78 - 122
1,1,2-Trichloroethane	20.9	20.0	104	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	17.6	20.0	88	75 - 124
1,1-Dichloroethane (1,1-DCA)	20.8	20.0	104	78 - 117
1,1-Dichloroethene (1,1-DCE)	20.3	20.0	102	74 - 135
1,2,3-Trichlorobenzene	21.4	20.0	107	56 - 164
1,2,4-Trichlorobenzene	20.8	20.0	104	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	18.9	20.0	94	55 - 149
1,2-Dibromoethane	19.3	20.0	96	81 - 125
1,2-Dichlorobenzene	20.2	20.0	101	80 - 119
1,2-Dichloroethane	19.7	20.0	99	71 - 127
1,2-Dichloropropane	21.9	20.0	109	80 - 119
1,3-Dichlorobenzene	20.5	20.0	103	79 - 121
1,4-Dichlorobenzene	18.9	20.0	95	79 - 119
1,4-Dioxane	371	400	93	69 - 151
2-Butanone (MEK)	26.2	20.0	131	61 - 137
2-Hexanone	24.9	20.0	125 *	63 - 124
4-Methyl-2-pentanone	24.8	20.0	124	66 - 124
Acetone	25.4	20.0	127	40 - 161
Benzene	20.4	20.0	102	76 - 118
Bromochloromethane	20.9	20.0	104	81 - 126
Bromodichloromethane	18.4	20.0	92	78 - 126
Bromoform	17.4	20.0	87	71 - 136
Bromomethane	28.0	20.0	140	42 - 166
Carbon Disulfide	20.9	20.0	104	65 - 127
Carbon Tetrachloride	17.0	20.0	85	68 - 125
Chlorobenzene	20.6	20.0	103	80 - 121
Chloroethane	27.8	20.0	139 *	70 - 127
Chloroform	19.3	20.0	96	76 - 120
Chloromethane	34.1	20.0	171 *	69 - 145
Cyclohexane	19.9	20.0	100	63 - 121
Dibromochloromethane	19.3	20.0	96	77 - 128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/15/15

**Lab Control Sample Summary
Volatile Organic Compounds by GC/MS**

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 467145

**Lab Control Sample
RQ1512610-02**

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	26.2	20.0	131	65 - 152
Dichloromethane	19.6	20.0	98	73 - 122
Ethylbenzene	19.9	20.0	100	76 - 120
Isopropylbenzene (Cumene)	21.1	20.0	106	78 - 126
Methyl Acetate	24.6	20.0	123	62 - 131
Methyl tert-Butyl Ether	21.0	20.0	105	78 - 125
Methylcyclohexane	21.5	20.0	107	51 - 129
Styrene	21.2	20.0	106	80 - 124
Tetrachloroethene (PCE)	18.6	20.0	93	78 - 124
Toluene	20.4	20.0	102	77 - 120
Trichloroethene (TCE)	18.1	20.0	91	78 - 123
Trichlorofluoromethane (CFC 11)	21.8	20.0	109	68 - 126
Vinyl Chloride	30.1	20.0	150 *	69 - 133
cis-1,2-Dichloroethene	20.3	20.0	101	80 - 121
cis-1,3-Dichloropropene	20.2	20.0	101	74 - 126
m,p-Xylenes	42.1	40.0	105	78 - 123
o-Xylene	20.3	20.0	101	80 - 120
trans-1,2-Dichloroethene	20.8	20.0	104	80 - 120
trans-1,3-Dichloropropene	19.6	20.0	98	67 - 135

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/19/15

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 247341

Analyte Name	Lab Control Sample RQ1512449-02			Duplicate Lab Control Sample RQ1512449-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4,5-Tetrachlorobenzene	62.9	100	63	82.6	100	83	25 - 123	27	30
2,3,4,6-Tetrachlorophenol	102	100	102	104	100	104	81 - 137	2	30
2,4,5-Trichlorophenol	93.4	100	93	110	100	110	62 - 117	17	30
2,4,6-Trichlorophenol	83.4	100	83	108	100	108	62 - 115	26	30
2,4-Dichlorophenol	111	100	111 *	78.1	100	78	62 - 109	35 *	30
2,4-Dimethylphenol	107	100	107 *	74.1	100	74	28 - 100	36 *	30
2,4-Dinitrophenol	65.0	100	65	72.2	100	72	40 - 156	10	30
2,4-Dinitrotoluene	85.8	100	86	90.7	100	91	69 - 122	6	30
2,6-Dinitrotoluene	84.7	100	85	86.3	100	86	48 - 125	1	30
2-Chloronaphthalene	71.3	100	71	71.0	100	71	47 - 98	<1	30
2-Chlorophenol	76.2	100	76	71.3	100	71	42 - 112	7	30
2-Methylnaphthalene	70.9	100	71	52.5	100	52	34 - 102	31 *	30
2-Methylphenol	74.3	100	74	70.6	100	71	59 - 104	4	30
2-Nitroaniline	82.0	100	82	84.9	100	85	60 - 119	4	30
2-Nitrophenol	120	100	120 *	80.2	100	80	60 - 113	40 *	30
3,3'-Dichlorobenzidine	67.0	100	67	70.4	100	70	44 - 114	4	30
3- and 4-Methylphenol Coelution	142	200	71	136	200	68	50 - 111	4	30
3-Nitroaniline	66.1	100	66	67.9	100	68	50 - 112	3	30
4,6-Dinitro-2-methylphenol	85.8	100	86	90.0	100	90	65 - 141	5	30
4-Bromophenyl Phenyl Ether	92.1	100	92	89.2	100	89	63 - 124	3	30
4-Chloro-3-methylphenol	81.9	100	82	75.1	100	75	42 - 124	9	30
4-Chloroaniline	67.8	100	68	68.1	100	68	40 - 111	<1	30
4-Chlorophenyl Phenyl Ether	80.3	100	80	81.4	100	81	59 - 112	1	30
4-Nitroaniline	78.7	100	79	82.5	100	83	62 - 127	5	30
4-Nitrophenol	47.9	100	48	40.6	100	41	10 - 126	16	30
Acenaphthene	79.9	100	80	79.7	100	80	54 - 125	<1	30
Acenaphthylene	78.4	100	78	80.5	100	81	69 - 111	4	30
Acetophenone	79.3	100	79	78.6	100	79	42 - 126	<1	30
Anthracene	87.2	100	87	87.3	100	87	55 - 116	<1	30
Atrazine	108	100	108	109	100	109	10 - 160	<1	30
Benz(a)anthracene	83.5	100	83	87.0	100	87	66 - 110	5	30
Benzaldehyde	114	100	114	165	100	165	46 - 200	37 *	30
Benzo(a)pyrene	83.9	100	84	90.3	100	90	44 - 114	7	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/19/15

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 247341

Analyte Name	Lab Control Sample RQ1512449-02			Duplicate Lab Control Sample RQ1512449-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(b)fluoranthene	81.4	100	81	86.7	100	87	64 - 122	7	30
Benzo(g,h,i)perylene	80.8	100	81	85.0	100	85	60 - 127	5	30
Benzo(k)fluoranthene	80.0	100	80	86.1	100	86	49 - 133	7	30
Biphenyl	70.6	100	71	72.0	100	72	30 - 126	1	30
2,2'-Oxybis(1-chloropropane)	118	100	118 *	116	100	116 *	44 - 112	2	30
Bis(2-chloroethoxy)methane	123	100	123	86.6	100	87	53 - 142	34 *	30
Bis(2-chloroethyl) Ether	74.6	100	75	79.6	100	80	56 - 106	6	30
Bis(2-ethylhexyl) Phthalate	87.7	100	88	85.8	100	86	62 - 124	2	30
Butyl Benzyl Phthalate	79.6	100	80	114	100	114	41 - 148	35 *	30
Caprolactam	27.8	100	28	24.9	100	25	10 - 41	11	30
Carbazole	118	100	118 *	88.2	100	88	66 - 117	29	30
Chrysene	88.6	100	89	89.0	100	89	57 - 118	<1	30
Di-n-butyl Phthalate	116	100	116	87.7	100	88	57 - 139	27	30
Di-n-octyl Phthalate	85.6	100	86	92.4	100	92	72 - 146	7	30
Dibenz(a,h)anthracene	81.7	100	82	87.8	100	88	58 - 132	7	30
Dibenzofuran	77.8	100	78	78.7	100	79	58 - 105	1	30
Diethyl Phthalate	82.4	100	82	85.5	100	85	65 - 122	4	30
Dimethyl Phthalate	79.8	100	80	81.5	100	81	69 - 115	1	30
Fluoranthene	153	100	153 *	90.6	100	91	62 - 123	51 *	30
Fluorene	81.6	100	82	83.9	100	84	60 - 112	2	30
Hexachlorobenzene	91.6	100	92	92.0	100	92	76 - 119	<1	30
Hexachlorobutadiene	56.5	100	56	48.6	100	49	16 - 95	13	30
Hexachlorocyclopentadiene	62.2	100	62	80.8	100	81	10 - 99	27	30
Hexachloroethane	53.5	100	54	51.3	100	51	15 - 92	6	30
Indeno(1,2,3-cd)pyrene	81.4	100	81	85.3	100	85	64 - 126	5	30
Isophorone	163	100	163 *	88.3	100	88	61 - 128	60 *	30
N-Nitrosodi-n-propylamine	82.5	100	83	84.0	100	84	51 - 119	1	30
N-Nitrosodiphenylamine	93.2	100	93	91.5	100	92	45 - 123	1	30
Naphthalene	69.0	100	69	66.7	100	67	36 - 95	3	30
Nitrobenzene	157	100	157 *	80.7	100	81	51 - 113	64 *	30
Pentachlorophenol (PCP)	76.1	100	76	78.2	100	78	56 - 146	3	30
Phenanthrene	91.0	100	91	89.2	100	89	58 - 118	2	30
Phenol	28.0	100	28	37.5	100	38	10 - 113	30	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY
Sample Matrix: Water

Service Request: R1508835
Date Analyzed: 10/19/15

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 247341

Analyte Name	Lab Control Sample RQ1512449-02			Duplicate Lab Control Sample RQ1512449-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyrene	118	100	118	93.8	100	94	67 - 118	23	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

10-1-27



Cooler Receipt and Preservation Check Form

Project/Client Antea

Folder Number R1508833

Cooler received on 10-15-15

by: HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings

Date: 10-15-15

Time: 09:52

ID: IR#3

IR#5

From: Temp Blank

Sample Bottle

Observed Temp (°C)	<u>1.9</u>							
Correction Factor (°C)	<u>+0.5</u>							
Corrected Temp (°C)	<u>2.4</u>							
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R002 by HE on 10-15-15 at 09:57
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: AL

Cooler Breakdown: Date: _____ Time: _____ by: _____

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: _____

Other Comments: _____

All R1508833.

2 Sulfide
C116 7196 B01
10-14-15
11:10-11:20

PC Secondary Review: AL

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



October 21, 2015

Service Request No:R1508833

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Glens Falls -Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 15, 2015
For your reference, these analyses have been assigned our service request number **R1508833**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1508833

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1508833-001	FRAC-1	10/14/2015	1100
R1508833-002	FRAC-3	10/14/2015	1120

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-1
Lab Code: R1508833-001

Service Request: R1508833
Date Collected: 10/14/15 11:00
Date Received: 10/15/15 09:35
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	10/15/15 11:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water
Sample Name: FRAC-3
Lab Code: R1508833-002

Service Request: R1508833
Date Collected: 10/14/15 11:20
Date Received: 10/15/15 09:35
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.6	mg/L	2.0	1	10/15/15 11:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1508833-MB

Service Request: R1508833
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	2.0 U	mg/L	2.0	1	10/15/15 12:40	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

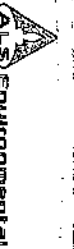
Service Request: R1508833
Date Analyzed: 10/15/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1508833-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Biochemical Oxygen Demand (BOD)	SM 5210 B-2001(2011)	194	198	98	85-115



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

28827

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager		Report OC		PRESERVATIVE											
GLENS FALLS		MARK SCHUMACHER		1 0 5 0 2 0 4 3 3 0 0 3											
Company/Address		5738 WIDEWATERS BLVD, SYRACUSE NY 13214		GC/MS VOAs • 8270 • 824 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 601/602 PHECHERIDES • 8061 • 603/604 • 8065 • 606 METALS-TOTAL (List in comments below) METALS-DISSOLVED (List in comments below) HEX CHLORIDE TOTAL CHLORIDE PHENOLS AMMONIA ASTM D6419-09 5M 2540D 000 5M 5210B COD 410.4											
E-MAIL: MARK.SCHUMACHER@ANTHGROUP.COM		CAROLYN.CLOMME@ANTHGROUP.COM		VOC TEL 8260C S-VOC TEL 8270D SULFIDE 4500 52F PH TAL LIST 9012A 420.4 DE419-09 5M 2540D 5M 5210B 410.4											
Phone # 315-552-9833		Email		Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other											
Sample's Signature		Sample's Printed Name		REMARKS/ ALTERNATE DESCRIPTION											
Carolyn Clommes		Carolyn Clommes													
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS								REMARKS/ ALTERNATE DESCRIPTION		
ERAC-1		10-14-15	11:10	WATER	13	X	X	X	X	X	X	X	X	X	
ERAC-3		10-14-15	11:20	WATER	13	X	X	X	X	X	X	X	X	X	
TRIP BLANK					3	X	X	X	X	X	X	X	X	X	
SPECIAL INSTRUCTIONS/COMMENTS															
Metals TAL LIST (EPA 6010, 7470A)															
VOC TEL Full List															
SVOC TEL Full List															
* ELECTRONIC DATA DUE FOR ALL ANALYSIS															
EXCERPT 800 (5047) OR 3 DAY TAT															
STANDARD DATA PACKAGE THESE ARE															
See OARP WASTE CHARACTERIZATION SERVICES															
STATE WHERE SAMPLES WERE COLLECTED				NY											
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY			
Signature				Signature				Signature				Signature			
Printed Name				Printed Name				Printed Name				Printed Name			
Carolyn Clommes				Bryan Ales				DINA AYERS				DINA AYERS			
Firm				Firm				Firm				Firm			
Antea Group				Antea Group				ALS ENV.				ALS ENV.			
Date/Time				Date/Time				Date/Time				Date/Time			
10-14-15 12:00				10/14/15 12:00				10/14/15 15:42				10/14/15 17:00			
TURNAROUND REQUIREMENTS															
X RUSH (SURCHARGES APPLY)															
1 day 2 day 3 day 4 day 5 day															
REQUESTED REPORT DATE															
X 10-19-15 C00															
REPORT REQUIREMENTS															
I. Results Only															
II. Results + QC Summaries (IACS, DUP, MS/MSD as required)															
III. Results + QC and Calibration Summaries															
IV. Data Validation Report with Raw															
Edita X Yes No															
RELINQUISHED BY															
Signature															
Printed Name															
DINA AYERS															
Firm															
ALS ENV.															
Date/Time															
10-15-15 09:35															
INVOICE INFORMATION															
PO #															
GLENS FALLS															
BILL TO:															
ASHLAND															
R1508833 5															
Antea USA Inc															
Queensbury NY															
Barcode															



Cooler Receipt and Preservation Check Form

Project/Client Antea

Folder Number 215-8833

Cooler received on 10-15-15

by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u>	N	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

8. Temperature Readings Date: 10-15-15 Time: 09:52 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.9</u>							
Correction Factor (°C)	<u>+0.5</u>							
Corrected Temp (°C)	<u>2.4</u>							
Within 0-6°C?	<u>Y</u>	N	Y	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R002 by KE on 10/15/15 at 09:57
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: PR

Cooler Breakdown: Date: 10/15/15 Time: 12:00 by: MARK

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust:

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 082415-2ABT

Other Comments:

2 Sulfide
C46 7196 BOD
10-14-15
11-10-11:20

PC Secondary Review: KE

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 05, 2015

Service Request No:R1509243

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 30, 2015
For your reference, these analyses have been assigned our service request number **R1509243**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

ALS ENVIRONMENTAL

Client: Antea
Project: Glens Falls
Sample Matrix: Water

Service Request No.: R1509243
Date Received: 10/30/15

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Method Blank and Laboratory Control Sample (LCS).

Sample Receipt

Samples were received for analysis at ALS-Rochester in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Hexavalent Chromium was analyzed slightly outside holding time due to start-up time on the instrument. The

Site QC was not requested, however performed for some analytes on sample FRAC 2. All QC limits were met. Calcium and Iron recoveries have been flagged with a “#” to denote that the sample concentrations were greater than 4-times the matrix spike and the control limits do not apply.

Various compounds were slightly outside QC limits for LCS/LCSD for Methods 8260C and 8270D.

All remaining QC criteria were met.

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls

Service Request:R1509243

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509243-001	FRAC-2	10/29/2015	1115
R1509243-002	TRIP BLANK	10/29/2015	1115

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

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Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.312	mg/L	0.050	10	11/01/15 10:29	NA	
Chemical Oxygen Demand, Total	410.4	30.5	mg/L	5.0	1	10/30/15 13:30	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	10/30/15 11:24	NA	*
Cyanide, Total	9012B	0.249	mg/L	0.010	1	11/02/15 15:49	11/02/15	
pH	SM 4500-H+ B	7.28	pH Units	-	1	11/02/15 16:50	NA	H
Phenolics, Total Recoverable	420.4 Modified	0.0068	mg/L	0.0050	1	11/03/15 09:45	NA	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	85	mg/L	10	1	10/30/15 14:52	NA	
Sulfide	SM 4500-S2-F-2000(2011)	1.0 U	mg/L	1.0	1	11/03/15 10:58	NA	
Temperature of pH Analysis	SM 4500-H+ B	23.3	deg C	-	1	11/02/15 16:50	NA	H

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	7.35	mg/L	0.10	1	11/03/15 07:07	11/02/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/03/15 11:54	11/02/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Barium, Total	6010C	0.666	mg/L	0.020	1	11/03/15 07:12	11/02/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/03/15 07:12	11/02/15	
Cadmium, Total	6010C	0.0132	mg/L	0.0050	1	11/03/15 07:12	11/02/15	
Calcium, Total	6010C	19.9	mg/L	1.0	1	11/03/15 07:12	11/02/15	
Chromium, Total	6010C	0.501	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Copper, Total	6010C	0.042	mg/L	0.020	1	11/03/15 07:12	11/02/15	
Iron, Total	6010C	20.0	mg/L	0.10	1	11/03/15 07:12	11/02/15	
Lead, Total	6010C	0.133	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Magnesium, Total	6010C	3.6	mg/L	1.0	1	11/03/15 07:12	11/02/15	
Manganese, Total	6010C	0.214	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/03/15 10:07	11/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/03/15 07:12	11/02/15	
Potassium, Total	6010C	2.8	mg/L	2.0	1	11/03/15 07:07	11/02/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Sodium, Total	6010C	9.9	mg/L	1.0	1	11/03/15 07:07	11/02/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 07:12	11/02/15	
Vanadium, Total	6010C	0.150	mg/L	0.050	1	11/03/15 07:12	11/02/15	
Zinc, Total	6010C	0.077	mg/L	0.020	1	11/03/15 07:12	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 12:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 12:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 12:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 12:20	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 12:20	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 12:20	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
1,4-Dioxane	100 U	100	1	10/30/15 12:20	
2-Butanone (MEK)	17	10	1	10/30/15 12:20	
2-Hexanone	10 U	10	1	10/30/15 12:20	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 12:20	
Acetone	110	10	1	10/30/15 12:20	
Benzene	5.0 U	5.0	1	10/30/15 12:20	
Bromochloromethane	5.0 U	5.0	1	10/30/15 12:20	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 12:20	
Bromoform	5.0 U	5.0	1	10/30/15 12:20	
Bromomethane	5.0 U	5.0	1	10/30/15 12:20	
Carbon Disulfide	10 U	10	1	10/30/15 12:20	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 12:20	
Chlorobenzene	5.0 U	5.0	1	10/30/15 12:20	
Chloroethane	5.0 U	5.0	1	10/30/15 12:20	
Chloroform	5.0 U	5.0	1	10/30/15 12:20	
Chloromethane	5.0 U	5.0	1	10/30/15 12:20	
Cyclohexane	10 U	10	1	10/30/15 12:20	
Dibromochloromethane	5.0 U	5.0	1	10/30/15 12:20	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 12:20	
Dichloromethane	5.0 U	5.0	1	10/30/15 12:20	
Ethylbenzene	5.0 U	5.0	1	10/30/15 12:20	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	10/30/15 12:20	
Methyl Acetate	10 U	10	1	10/30/15 12:20	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 12:20	
Methylcyclohexane	10 U	10	1	10/30/15 12:20	
Styrene	5.0 U	5.0	1	10/30/15 12:20	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 12:20	
Toluene	5.0 U	5.0	1	10/30/15 12:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 12:20	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 12:20	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 12:20	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 12:20	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 12:20	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 12:20	
o-Xylene	5.0 U	5.0	1	10/30/15 12:20	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 12:20	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 12:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/30/15 12:20	
Dibromofluoromethane	102	89 - 119	10/30/15 12:20	
Toluene-d8	108	87 - 121	10/30/15 12:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
2,3,4,6-Tetrachlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4,5-Trichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4,6-Trichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dichlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dimethylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
2,4-Dinitrophenol	94 U	94	2	11/05/15 11:22	10/30/15	
2,4-Dinitrotoluene	19 U	19	2	11/05/15 11:22	10/30/15	
2,6-Dinitrotoluene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Chloronaphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Chlorophenol	19 U	19	2	11/05/15 11:22	10/30/15	
2-Methylnaphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
2-Methylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
2-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
2-Nitrophenol	19 U	19	2	11/05/15 11:22	10/30/15	
3,3'-Dichlorobenzidine	19 U	19	2	11/05/15 11:22	10/30/15	
3- and 4-Methylphenol Coelution	19 U	19	2	11/05/15 11:22	10/30/15	
3-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
4,6-Dinitro-2-methylphenol	94 U	94	2	11/05/15 11:22	10/30/15	
4-Bromophenyl Phenyl Ether	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chloro-3-methylphenol	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chloroaniline	19 U	19	2	11/05/15 11:22	10/30/15	
4-Chlorophenyl Phenyl Ether	19 U	19	2	11/05/15 11:22	10/30/15	
4-Nitroaniline	94 U	94	2	11/05/15 11:22	10/30/15	
4-Nitrophenol	94 U	94	2	11/05/15 11:22	10/30/15	
Acenaphthene	19 U	19	2	11/05/15 11:22	10/30/15	
Acenaphthylene	19 U	19	2	11/05/15 11:22	10/30/15	
Acetophenone	19 U	19	2	11/05/15 11:22	10/30/15	
Anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Atrazine	19 U	19	2	11/05/15 11:22	10/30/15	
Benz(a)anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzaldehyde	94 U	94	2	11/05/15 11:22	10/30/15	
Benzo(a)pyrene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(b)fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(g,h,i)perylene	19 U	19	2	11/05/15 11:22	10/30/15	
Benzo(k)fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Biphenyl	19 U	19	2	11/05/15 11:22	10/30/15	
2,2'-Oxybis(1-chloropropane)	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-chloroethoxy)methane	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-chloroethyl) Ether	19 U	19	2	11/05/15 11:22	10/30/15	
Bis(2-ethylhexyl) Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Butyl Benzyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Caprolactam	19 U	19	2	11/05/15 11:22	10/30/15	

ALS Group USA, Corp.
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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	19 U	19	2	11/05/15 11:22	10/30/15	
Chrysene	19 U	19	2	11/05/15 11:22	10/30/15	
Di-n-butyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Di-n-octyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Dibenz(a,h)anthracene	19 U	19	2	11/05/15 11:22	10/30/15	
Dibenzofuran	19 U	19	2	11/05/15 11:22	10/30/15	
Diethyl Phthalate	19 U	19	2	11/05/15 11:22	10/30/15	
Dimethyl Phthalate	180	19	2	11/05/15 11:22	10/30/15	
Fluoranthene	19 U	19	2	11/05/15 11:22	10/30/15	
Fluorene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorobutadiene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachlorocyclopentadiene	19 U	19	2	11/05/15 11:22	10/30/15	
Hexachloroethane	19 U	19	2	11/05/15 11:22	10/30/15	
Indeno(1,2,3-cd)pyrene	19 U	19	2	11/05/15 11:22	10/30/15	
Isophorone	19 U	19	2	11/05/15 11:22	10/30/15	
N-Nitrosodi-n-propylamine	19 U	19	2	11/05/15 11:22	10/30/15	
N-Nitrosodiphenylamine	19 U	19	2	11/05/15 11:22	10/30/15	
Naphthalene	19 U	19	2	11/05/15 11:22	10/30/15	
Nitrobenzene	19 U	19	2	11/05/15 11:22	10/30/15	
Pentachlorophenol (PCP)	94 U	94	2	11/05/15 11:22	10/30/15	
Phenanthrene	19 U	19	2	11/05/15 11:22	10/30/15	
Phenol	19 U	19	2	11/05/15 11:22	10/30/15	
Pyrene	19 U	19	2	11/05/15 11:22	10/30/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	28 - 157	11/05/15 11:22	
2-Fluorobiphenyl	78	39 - 119	11/05/15 11:22	
2-Fluorophenol	36	10 - 105	11/05/15 11:22	
Nitrobenzene-d5	73	37 - 117	11/05/15 11:22	
Phenol-d6	25	10 - 107	11/05/15 11:22	
Terphenyl-d14	82	40 - 133	11/05/15 11:22	

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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: TRIP BLANK
Lab Code: R1509243-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 11:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 11:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 11:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 11:56	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 11:56	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 11:56	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
1,4-Dioxane	100 U	100	1	10/30/15 11:56	
2-Butanone (MEK)	10 U	10	1	10/30/15 11:56	
2-Hexanone	10 U	10	1	10/30/15 11:56	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 11:56	
Acetone	10 U	10	1	10/30/15 11:56	
Benzene	5.0 U	5.0	1	10/30/15 11:56	
Bromochloromethane	5.0 U	5.0	1	10/30/15 11:56	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 11:56	
Bromoform	5.0 U	5.0	1	10/30/15 11:56	
Bromomethane	5.0 U	5.0	1	10/30/15 11:56	
Carbon Disulfide	10 U	10	1	10/30/15 11:56	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 11:56	
Chlorobenzene	5.0 U	5.0	1	10/30/15 11:56	
Chloroethane	5.0 U	5.0	1	10/30/15 11:56	
Chloroform	5.0 U	5.0	1	10/30/15 11:56	
Chloromethane	5.0 U	5.0	1	10/30/15 11:56	
Cyclohexane	10 U	10	1	10/30/15 11:56	
Dibromochloromethane	5.0 U	5.0	1	10/30/15 11:56	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 11:56	
Dichloromethane	5.0 U	5.0	1	10/30/15 11:56	
Ethylbenzene	5.0 U	5.0	1	10/30/15 11:56	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	10/30/15 11:56	
Methyl Acetate	10 U	10	1	10/30/15 11:56	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 11:56	
Methylcyclohexane	10 U	10	1	10/30/15 11:56	
Styrene	5.0 U	5.0	1	10/30/15 11:56	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 11:56	
Toluene	5.0 U	5.0	1	10/30/15 11:56	

ALS Group USA, Corp.
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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15 11:15
Date Received: 10/30/15 09:45

Sample Name: TRIP BLANK
Lab Code: R1509243-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 11:56	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 11:56	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 11:56	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:56	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:56	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 11:56	
o-Xylene	5.0 U	5.0	1	10/30/15 11:56	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:56	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/15 11:56	
Dibromofluoromethane	102	89 - 119	10/30/15 11:56	
Toluene-d8	106	87 - 121	10/30/15 11:56	

ALS Group USA, Corp.
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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R1509243-MB

Service Request: R1509243
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	11/01/15 08:04	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	10/30/15 13:30	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	10/30/15 11:16	NA	
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	11/02/15 15:36	11/02/15	
Phenolics, Total Recoverable	420.4 Modified	0.0050 U	mg/L	0.0050	1	11/03/15 09:45	NA	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0 U	mg/L	1.0	1	10/30/15 14:52	NA	
Sulfide	SM 4500-S2-F-2000(2011)	1.0 U	mg/L	1.0	1	11/03/15 10:58	NA	

ALS Group USA, Corp.
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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R1509243-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	0.10 U	mg/L	0.10	1	11/03/15 06:50	11/02/15	
Antimony, Total	6010C	0.060 U	mg/L	0.060	1	11/03/15 11:41	11/02/15	
Arsenic, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Barium, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Beryllium, Total	6010C	0.0030 U	mg/L	0.0030	1	11/03/15 06:37	11/02/15	
Cadmium, Total	6010C	0.0050 U	mg/L	0.0050	1	11/03/15 06:37	11/02/15	
Calcium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Chromium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Cobalt, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Copper, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	
Iron, Total	6010C	0.10 U	mg/L	0.10	1	11/03/15 06:37	11/02/15	
Lead, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Magnesium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:37	11/02/15	
Manganese, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Mercury, Total	7470A	0.00020 U	mg/L	0.00020	1	11/03/15 10:03	11/02/15	
Nickel, Total	6010C	0.040 U	mg/L	0.040	1	11/03/15 06:37	11/02/15	
Potassium, Total	6010C	2.0 U	mg/L	2.0	1	11/03/15 06:50	11/02/15	
Selenium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Silver, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Sodium, Total	6010C	1.0 U	mg/L	1.0	1	11/03/15 06:50	11/02/15	
Thallium, Total	6010C	0.010 U	mg/L	0.010	1	11/03/15 06:37	11/02/15	
Vanadium, Total	6010C	0.050 U	mg/L	0.050	1	11/03/15 06:37	11/02/15	
Zinc, Total	6010C	0.020 U	mg/L	0.020	1	11/03/15 06:37	11/02/15	

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Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513461-01

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	10/30/15 11:32	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	10/30/15 11:32	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	10/30/15 11:32	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/30/15 11:32	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dibromoethane	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichloroethane	5.0 U	5.0	1	10/30/15 11:32	
1,2-Dichloropropane	5.0 U	5.0	1	10/30/15 11:32	
1,3-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,4-Dichlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
1,4-Dioxane	100 U	100	1	10/30/15 11:32	
2-Butanone (MEK)	10 U	10	1	10/30/15 11:32	
2-Hexanone	10 U	10	1	10/30/15 11:32	
4-Methyl-2-pentanone	10 U	10	1	10/30/15 11:32	
Acetone	10 U	10	1	10/30/15 11:32	
Benzene	5.0 U	5.0	1	10/30/15 11:32	
Bromochloromethane	5.0 U	5.0	1	10/30/15 11:32	
Bromodichloromethane	5.0 U	5.0	1	10/30/15 11:32	
Bromoform	5.0 U	5.0	1	10/30/15 11:32	
Bromomethane	5.0 U	5.0	1	10/30/15 11:32	
Carbon Disulfide	10 U	10	1	10/30/15 11:32	
Carbon Tetrachloride	5.0 U	5.0	1	10/30/15 11:32	
Chlorobenzene	5.0 U	5.0	1	10/30/15 11:32	
Chloroethane	5.0 U	5.0	1	10/30/15 11:32	
Chloroform	5.0 U	5.0	1	10/30/15 11:32	
Chloromethane	5.0 U	5.0	1	10/30/15 11:32	
Cyclohexane	10 U	10	1	10/30/15 11:32	
Dibromochloromethane	5.0 U	5.0	1	10/30/15 11:32	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	10/30/15 11:32	
Dichloromethane	5.0 U	5.0	1	10/30/15 11:32	
Ethylbenzene	5.0 U	5.0	1	10/30/15 11:32	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	10/30/15 11:32	
Methyl Acetate	10 U	10	1	10/30/15 11:32	
Methyl tert-Butyl Ether	5.0 U	5.0	1	10/30/15 11:32	
Methylcyclohexane	10 U	10	1	10/30/15 11:32	
Styrene	5.0 U	5.0	1	10/30/15 11:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/30/15 11:32	
Toluene	5.0 U	5.0	1	10/30/15 11:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513461-01

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	10/30/15 11:32	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	10/30/15 11:32	
Vinyl Chloride	5.0 U	5.0	1	10/30/15 11:32	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:32	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:32	
m,p-Xylenes	5.0 U	5.0	1	10/30/15 11:32	
o-Xylene	5.0 U	5.0	1	10/30/15 11:32	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/30/15 11:32	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/30/15 11:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/30/15 11:32	
Dibromofluoromethane	101	89 - 119	10/30/15 11:32	
Toluene-d8	106	87 - 121	10/30/15 11:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513286-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
2,3,4,6-Tetrachlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4,5-Trichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4,6-Trichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dichlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dimethylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
2,4-Dinitrophenol	50 U	50	1	11/04/15 15:13	10/30/15	
2,4-Dinitrotoluene	10 U	10	1	11/04/15 15:13	10/30/15	
2,6-Dinitrotoluene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Chloronaphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Chlorophenol	10 U	10	1	11/04/15 15:13	10/30/15	
2-Methylnaphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
2-Methylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
2-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
2-Nitrophenol	10 U	10	1	11/04/15 15:13	10/30/15	
3,3'-Dichlorobenzidine	10 U	10	1	11/04/15 15:13	10/30/15	
3- and 4-Methylphenol Coelution	10 U	10	1	11/04/15 15:13	10/30/15	
3-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
4,6-Dinitro-2-methylphenol	50 U	50	1	11/04/15 15:13	10/30/15	
4-Bromophenyl Phenyl Ether	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chloro-3-methylphenol	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chloroaniline	10 U	10	1	11/04/15 15:13	10/30/15	
4-Chlorophenyl Phenyl Ether	10 U	10	1	11/04/15 15:13	10/30/15	
4-Nitroaniline	50 U	50	1	11/04/15 15:13	10/30/15	
4-Nitrophenol	50 U	50	1	11/04/15 15:13	10/30/15	
Acenaphthene	10 U	10	1	11/04/15 15:13	10/30/15	
Acenaphthylene	10 U	10	1	11/04/15 15:13	10/30/15	
Acetophenone	10 U	10	1	11/04/15 15:13	10/30/15	
Anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Atrazine	10 U	10	1	11/04/15 15:13	10/30/15	
Benz(a)anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzaldehyde	50 U	50	1	11/04/15 15:13	10/30/15	
Benzo(a)pyrene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(b)fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(g,h,i)perylene	10 U	10	1	11/04/15 15:13	10/30/15	
Benzo(k)fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Biphenyl	10 U	10	1	11/04/15 15:13	10/30/15	
2,2'-Oxybis(1-chloropropane)	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-chloroethoxy)methane	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-chloroethyl) Ether	10 U	10	1	11/04/15 15:13	10/30/15	
Bis(2-ethylhexyl) Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Butyl Benzyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Caprolactam	10 U	10	1	11/04/15 15:13	10/30/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513286-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	10 U	10	1	11/04/15 15:13	10/30/15	
Chrysene	10 U	10	1	11/04/15 15:13	10/30/15	
Di-n-butyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Di-n-octyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Dibenz(a,h)anthracene	10 U	10	1	11/04/15 15:13	10/30/15	
Dibenzofuran	10 U	10	1	11/04/15 15:13	10/30/15	
Diethyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Dimethyl Phthalate	10 U	10	1	11/04/15 15:13	10/30/15	
Fluoranthene	10 U	10	1	11/04/15 15:13	10/30/15	
Fluorene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorobutadiene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachlorocyclopentadiene	10 U	10	1	11/04/15 15:13	10/30/15	
Hexachloroethane	10 U	10	1	11/04/15 15:13	10/30/15	
Indeno(1,2,3-cd)pyrene	10 U	10	1	11/04/15 15:13	10/30/15	
Isophorone	10 U	10	1	11/04/15 15:13	10/30/15	
N-Nitrosodi-n-propylamine	10 U	10	1	11/04/15 15:13	10/30/15	
N-Nitrosodiphenylamine	10 U	10	1	11/04/15 15:13	10/30/15	
Naphthalene	10 U	10	1	11/04/15 15:13	10/30/15	
Nitrobenzene	10 U	10	1	11/04/15 15:13	10/30/15	
Pentachlorophenol (PCP)	50 U	50	1	11/04/15 15:13	10/30/15	
Phenanthrene	10 U	10	1	11/04/15 15:13	10/30/15	
Phenol	10 U	10	1	11/04/15 15:13	10/30/15	
Pyrene	10 U	10	1	11/04/15 15:13	10/30/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	28 - 157	11/04/15 15:13	
2-Fluorobiphenyl	63	39 - 119	11/04/15 15:13	
2-Fluorophenol	34	10 - 105	11/04/15 15:13	
Nitrobenzene-d5	60	37 - 117	11/04/15 15:13	
Phenol-d6	24	10 - 107	11/04/15 15:13	
Terphenyl-d14	76	40 - 133	11/04/15 15:13	

ALS Group USA, Corp.
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QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 10/30/15 - 11/03/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509243-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.497	0.500	99	90-110
Chemical Oxygen Demand, Total	410.4	52.2	50.0	104	90-110
Chromium, Hexavalent	7196A	0.0948	0.100	95	80-120
Cyanide, Total	9012B	0.0980	0.100	98	85-115
Phenolics, Total Recoverable	420.4 Modified	0.0365	0.0400	91	90-110
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	214	214	100	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/02/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509243-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.373	0.400	93	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/03/15

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509243-LCS3

Duplicate Lab Control Sample
R1509243-DLCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sulfide	SM 4500-S2-F-2000(2011)	3.85	3.5	110	3.83	3.5	110	67-143	<1	20

ALS Group USA, Corp.

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QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15
Date Received: 10/30/15
Date Analyzed: 10/30/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: mg/L
Basis: NA

				Duplicate Sample R1509243- 001DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.010	0.010 U	0.010 U	NC	NC	20
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	10	85	86	85.5	1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15
Date Received: 10/30/15
Date Analyzed: 10/30/15

Matrix Spike Summary
Chromium, Hexavalent

Sample Name: FRAC-2
Lab Code: R1509243-001
Analysis Method: 7196A

Units: mg/L
Basis: NA

Matrix Spike
R1509243-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	0.010 U	0.105	0.100	105	85-115

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/03/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1509243-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1.95	2.00	97	80-120
Antimony, Total	6010C	0.483	0.500	97	80-120
Arsenic, Total	6010C	0.0404	0.040	101	80-120
Barium, Total	6010C	2.03	2.00	102	80-120
Beryllium, Total	6010C	0.0472	0.0500	94	80-120
Cadmium, Total	6010C	0.0499	0.0500	100	80-120
Calcium, Total	6010C	2.03	2.0	101	80-120
Chromium, Total	6010C	0.207	0.200	103	80-120
Cobalt, Total	6010C	0.487	0.500	97	80-120
Copper, Total	6010C	0.259	0.250	104	80-120
Iron, Total	6010C	1.04	1.00	104	80-120
Lead, Total	6010C	0.494	0.500	99	80-120
Magnesium, Total	6010C	2.03	2.0	101	80-120
Manganese, Total	6010C	0.502	0.500	100	80-120
Mercury, Total	7470A	0.000974	0.00100	97	80-120
Nickel, Total	6010C	0.508	0.500	102	80-120
Potassium, Total	6010C	18.7	20.0	94	80-120
Selenium, Total	6010C	0.838	1.01	83	80-120
Silver, Total	6010C	0.0501	0.050	100	80-120
Sodium, Total	6010C	18.7	20.0	94	80-120
Thallium, Total	6010C	1.96	2.00	98	80-120
Vanadium, Total	6010C	0.484	0.500	97	80-120
Zinc, Total	6010C	0.500	0.500	100	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Collected: 10/29/15
Date Received: 10/30/15
Date Analyzed: 11/03/15

Replicate Sample Summary

Inorganic Parameters

Sample Name: FRAC-2
Lab Code: R1509243-001

Units: mg/L
Basis: NA

Duplicate Sample R1509243-001DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Aluminum, Total	6010C	0.10	7.35	6.41	6.88	14	20
Antimony, Total	6010C	0.060	0.060 U	0.060 U	NC	NC	20
Arsenic, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Barium, Total	6010C	0.020	0.666	0.665	0.665	<1	20
Beryllium, Total	6010C	0.0030	0.0030 U	0.0030 U	NC	NC	20
Cadmium, Total	6010C	0.0050	0.0132	0.0132	0.0132	<1	20
Calcium, Total	6010C	1.0	19.9	19.8	19.8	<1	20
Chromium, Total	6010C	0.010	0.501	0.499	0.500	<1	20
Cobalt, Total	6010C	0.050	0.050 U	0.050 U	NC	NC	20
Copper, Total	6010C	0.020	0.042	0.042	0.0421	<1	20
Iron, Total	6010C	0.10	20.0	19.7	19.8	2	20
Lead, Total	6010C	0.050	0.133	0.134	0.133	<1	20
Magnesium, Total	6010C	1.0	3.6	3.6	3.60	1	20
Manganese, Total	6010C	0.010	0.214	0.213	0.213	<1	20
Nickel, Total	6010C	0.040	0.040 U	0.040 U	NC	NC	20
Potassium, Total	6010C	2.0	2.8	2.4	2.61	14	20
Selenium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Silver, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Sodium, Total	6010C	1.0	9.9	8.8	9.35	11	20
Thallium, Total	6010C	0.010	0.010 U	0.010 U	NC	NC	20
Vanadium, Total	6010C	0.050	0.150	0.149	0.149	<1	20
Zinc, Total	6010C	0.020	0.077	0.077	0.0767	<1	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request:R1509243
Date Collected:10/29/15
Date Received:10/30/15
Date Analyzed:11/3/15

Matrix Spike Summary
Inorganic Parameters

Sample Name: FRAC-2
Lab Code: R1509243-001

Units:mg/L
Basis:NA

Matrix Spike
R1509243-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	7.35	8.25	2.00	45 *	75-125
Antimony, Total	6010C	0.060	0.472	0.500	94	75-125
Arsenic, Total	6010C	0.010	0.040	0.040	101	75-125
Barium, Total	6010C	0.666	2.59	2.00	96	75-125
Beryllium, Total	6010C	0.0030	0.0459	0.0500	92	75-125
Cadmium, Total	6010C	0.0132	0.0592	0.0500	92	75-125
Calcium, Total	6010C	19.9	21.7	2.0	91 #	75-125
Chromium, Total	6010C	0.501	0.714	0.200	106	75-125
Cobalt, Total	6010C	0.050	0.474	0.500	95	75-125
Copper, Total	6010C	0.042	0.288	0.250	98	75-125
Iron, Total	6010C	20.0	20.9	1.00	95 #	75-125
Lead, Total	6010C	0.133	0.604	0.500	94	75-125
Magnesium, Total	6010C	3.6	5.4	2.0	87	75-125
Manganese, Total	6010C	0.214	0.694	0.500	96	75-125
Nickel, Total	6010C	0.040	0.511	0.500	102	75-125
Potassium, Total	6010C	2.8	20.8	20.0	90	75-125
Selenium, Total	6010C	0.010	0.911	1.01	90	75-125
Silver, Total	6010C	0.010	0.049	0.050	98	75-125
Sodium, Total	6010C	9.9	27.4	20.0	88	75-125
Thallium, Total	6010C	0.010	1.82	2.00	91	75-125
Vanadium, Total	6010C	0.150	0.609	0.500	92	75-125
Zinc, Total	6010C	0.077	0.544	0.500	93	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 10/30/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1513461-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	23.9	20.0	119	74-120
1,1,2,2-Tetrachloroethane	8260C	22.6	20.0	113	78-122
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.4	20.0	112	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	24.4	20.0	122 *	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	23.3	20.0	116	74-135
1,2,3-Trichlorobenzene	8260C	21.1	20.0	105	56-164
1,2,4-Trichlorobenzene	8260C	21.0	20.0	105	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.8	20.0	99	55-149
1,2-Dibromoethane	8260C	22.3	20.0	111	81-125
1,2-Dichlorobenzene	8260C	20.5	20.0	102	80-119
1,2-Dichloroethane	8260C	21.9	20.0	109	71-127
1,2-Dichloropropane	8260C	22.0	20.0	110	80-119
1,3-Dichlorobenzene	8260C	20.8	20.0	104	79-121
1,4-Dichlorobenzene	8260C	21.1	20.0	105	79-119
1,4-Dioxane	8260C	376	400	94	69-151
2-Butanone (MEK)	8260C	21.3	20.0	106	61-137
2-Hexanone	8260C	18.8	20.0	94	63-124
4-Methyl-2-pentanone	8260C	18.7	20.0	94	66-124
Acetone	8260C	24.6	20.0	123	40-161
Benzene	8260C	21.3	20.0	106	76-118
Bromochloromethane	8260C	20.3	20.0	102	81-126
Bromodichloromethane	8260C	22.8	20.0	114	78-126
Bromoform	8260C	19.2	20.0	96	71-136
Bromomethane	8260C	17.4	20.0	87	42-166
Carbon Disulfide	8260C	22.8	20.0	114	65-127
Carbon Tetrachloride	8260C	21.3	20.0	106	68-125
Chlorobenzene	8260C	20.2	20.0	101	80-121
Chloroethane	8260C	22.2	20.0	111	70-127
Chloroform	8260C	22.5	20.0	112	76-120
Chloromethane	8260C	17.0	20.0	85	69-145
Cyclohexane	8260C	18.3	20.0	91	63-121
Dibromochloromethane	8260C	21.8	20.0	109	77-128

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 10/30/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1513461-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	23.1	20.0	116	65-152
Dichloromethane	8260C	20.7	20.0	103	73-122
Ethylbenzene	8260C	21.7	20.0	108	76-120
Isopropylbenzene (Cumene)	8260C	20.3	20.0	102	78-126
Methyl Acetate	8260C	18.8	20.0	94	62-131
Methyl tert-Butyl Ether	8260C	23.1	20.0	116	78-125
Methylcyclohexane	8260C	18.8	20.0	94	51-129
Styrene	8260C	20.1	20.0	100	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	78-124
Toluene	8260C	21.6	20.0	108	77-120
Trichloroethene (TCE)	8260C	20.1	20.0	100	78-123
Trichlorofluoromethane (CFC 11)	8260C	21.7	20.0	109	68-126
Vinyl Chloride	8260C	19.3	20.0	97	69-133
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	22.9	20.0	114	74-126
m,p-Xylenes	8260C	41.4	40.0	104	78-123
o-Xylene	8260C	19.4	20.0	97	80-120
trans-1,2-Dichloroethene	8260C	23.6	20.0	118	80-120
trans-1,3-Dichloropropene	8260C	23.0	20.0	115	67-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/04/15

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ1513286-02					Duplicate Lab Control Sample RQ1513286-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	53.3	100	53	58.0	100	58	25-123	9	30
2,3,4,6-Tetrachlorophenol	8270D	94.8	100	95	108	100	108	81-137	13	30
2,4,5-Trichlorophenol	8270D	79.4	100	79	86.6	100	87	62-117	10	30
2,4,6-Trichlorophenol	8270D	77.7	100	78	81.6	100	82	62-115	5	30
2,4-Dichlorophenol	8270D	72.0	100	72	79.1	100	79	62-109	9	30
2,4-Dimethylphenol	8270D	66.9	100	67	77.3	100	77	28-100	14	30
2,4-Dinitrophenol	8270D	71.6	100	72	83.8	100	84	40-156	15	30
2,4-Dinitrotoluene	8270D	76.9	100	77	86.5	100	86	69-122	11	30
2,6-Dinitrotoluene	8270D	81.0	100	81	88.4	100	88	48-125	8	30
2-Chloronaphthalene	8270D	61.7	100	62	67.4	100	67	47-98	8	30
2-Chlorophenol	8270D	60.8	100	61	70.3	100	70	42-112	14	30
2-Methylnaphthalene	8270D	58.4	100	58	62.8	100	63	34-102	8	30
2-Methylphenol	8270D	55.0	100	55 *	68.8	100	69	59-104	23	30
2-Nitroaniline	8270D	77.9	100	78	86.5	100	87	60-119	11	30
2-Nitrophenol	8270D	72.6	100	73	79.7	100	80	60-113	9	30
3,3'-Dichlorobenzidine	8270D	60.9	100	61	66.8	100	67	44-114	9	30
3- and 4-Methylphenol Coelution	8270D	97.4	200	49 *	127	200	63	50-111	25	30
3-Nitroaniline	8270D	56.6	100	57	63.7	100	64	50-112	12	30
4,6-Dinitro-2-methylphenol	8270D	80.4	100	80	88.9	100	89	65-141	11	30
4-Bromophenyl Phenyl Ether	8270D	75.2	100	75	80.4	100	80	63-124	6	30
4-Chloro-3-methylphenol	8270D	71.5	100	71	80.8	100	81	42-124	13	30
4-Chloroaniline	8270D	61.2	100	61	66.9	100	67	40-111	9	30
4-Chlorophenyl Phenyl Ether	8270D	72.9	100	73	78.7	100	79	59-112	8	30
4-Nitroaniline	8270D	79.2	100	79	89.3	100	89	62-127	12	30
4-Nitrophenol	8270D	32.7	100	33	50.0	100	50	10-126	41*	30
Acenaphthene	8270D	69.5	100	70	74.1	100	74	54-125	6	30
Acenaphthylene	8270D	71.9	100	72	76.6	100	77	69-111	7	30
Acetophenone	8270D	75.3	100	75	81.2	100	81	42-126	8	30
Anthracene	8270D	77.5	100	78	82.4	100	82	55-116	5	30
Atrazine	8270D	122	100	122	126	100	126	10-160	3	30
Benz(a)anthracene	8270D	77.9	100	78	84.5	100	84	66-110	7	30
Benzaldehyde	8270D	141	100	141	152	100	152	46-200	8	30
Benzo(a)pyrene	8270D	79.2	100	79	84.6	100	85	44-114	7	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/04/15

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1513286-02

Duplicate Lab Control Sample
RQ1513286-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	74.6	100	75	80.3	100	80	64-122	6	30
Benzo(g,h,i)perylene	8270D	79.6	100	80	86.2	100	86	60-127	7	30
Benzo(k)fluoranthene	8270D	75.2	100	75	82.2	100	82	49-133	9	30
Biphenyl	8270D	62.1	100	62	66.5	100	66	30-126	6	30
2,2'-Oxybis(1-chloropropane)	8270D	77.4	100	77	86.5	100	86	44-112	11	30
Bis(2-chloroethoxy)methane	8270D	75.4	100	75	80.8	100	81	53-142	8	30
Bis(2-chloroethyl) Ether	8270D	66.7	100	67	75.3	100	75	56-106	11	30
Bis(2-ethylhexyl) Phthalate	8270D	80.9	100	81	88.4	100	88	62-124	8	30
Butyl Benzyl Phthalate	8270D	80.0	100	80	85.1	100	85	41-148	6	30
Caprolactam	8270D	19.5	100	20	25.3	100	25	10-41	22	30
Carbazole	8270D	79.4	100	79	84.7	100	85	66-117	7	30
Chrysene	8270D	80.7	100	81	87.1	100	87	57-118	7	30
Di-n-butyl Phthalate	8270D	82.3	100	82	88.5	100	88	57-139	7	30
Di-n-octyl Phthalate	8270D	82.1	100	82	90.0	100	90	72-146	9	30
Dibenz(a,h)anthracene	8270D	81.6	100	82	86.9	100	87	58-132	6	30
Dibenzofuran	8270D	68.9	100	69	73.9	100	74	58-105	7	30
Diethyl Phthalate	8270D	76.6	100	77	86.4	100	86	65-122	11	30
Dimethyl Phthalate	8270D	73.3	100	73	83.1	100	83	69-115	13	30
Fluoranthene	8270D	83.2	100	83	89.3	100	89	62-123	7	30
Fluorene	8270D	72.2	100	72	80.1	100	80	60-112	11	30
Hexachlorobenzene	8270D	80.8	100	81	85.5	100	85	76-119	5	30
Hexachlorobutadiene	8270D	47.0	100	47	51.3	100	51	16-95	8	30
Hexachlorocyclopentadiene	8270D	53.4	100	53	58.9	100	59	10-99	11	30
Hexachloroethane	8270D	43.7	100	44	48.6	100	49	15-92	11	30
Indeno(1,2,3-cd)pyrene	8270D	78.5	100	78	84.5	100	85	64-126	9	30
Isophorone	8270D	79.2	100	79	85.5	100	85	61-128	7	30
N-Nitrosodi-n-propylamine	8270D	74.8	100	75	81.0	100	81	51-119	8	30
N-Nitrosodiphenylamine	8270D	81.6	100	82	87.3	100	87	45-123	6	30
Naphthalene	8270D	58.2	100	58	63.3	100	63	36-95	8	30
Nitrobenzene	8270D	71.1	100	71	77.4	100	77	51-113	8	30
Pentachlorophenol (PCP)	8270D	70.6	100	71	77.1	100	77	56-146	8	30
Phenanthrene	8270D	80.6	100	81	85.1	100	85	58-118	5	30
Phenol	8270D	22.5	100	22	34.0	100	34	10-113	43*	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Water

Service Request: R1509243
Date Analyzed: 11/04/15

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ1513286-02					RQ1513286-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyrene	8270D	87.6	100	88	95.8	100	96	67-118	9	30

PAGE 1 OF 1

Distribution: White - Lab Copy; Yellow - Return to Originator



Cooler Receipt and Preservation Check Form

R1509243

Antea USA, Inc.
Queensbury, NY

5

Project/Client _____ Folder Number R15-9243Cooler received on 10-30-15by: KECOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 10-30-15 Time: 10:00 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.8</u>						
Correction Factor (°C)	<u>+0.5</u>						
Corrected Temp (°C)	<u>3.3°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by KE on 10-30-15 at 10:04
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: AKCooler Breakdown: Date: 10/30/15 Time: 10:52 by: MAK

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies: _____

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	<u>X</u>		<u>81114</u>	<u>09/16</u>				
≤2	HNO ₃	<u>X</u>		<u>BDBZC147H</u>	<u>10/16</u>				
≤2	H ₂ SO ₄	<u>X</u>		<u>83071</u>	<u>09/16</u>				
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522	<u>X</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**	<u>4114070</u>	<u>09/16</u>				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 081015-1BMC, 082415-2AA0, 061515-1BCT, S-120-002,
Other Comments: _____042015-2AAW, 082415-2ABT,1 C#67196, BOD
Sulfide SM4500
10-29-15 11:15PC Secondary Review: AL

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



December 10, 2015

Service Request No:R1508875

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Glens Falls -Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 16, 2015
For your reference, these analyses have been assigned our service request number **R1508875**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

ALS ENVIRONMENTAL

Client: Antea USA Inc.
Project: Glens Falls
Sample Matrix: Waste

Service Request No.: R1508875
Date Received: 10/16/15

REVISED CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Method Blank and Laboratory Control Sample (LCS).

Sample Receipt

Samples were received for analysis at ALS-Rochester. The samples were received within acceptable temperature and in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Inorganics

Site QC was not requested however performed on Sludge 1. All QC limits were met, with the exception of various metals that have sample concentrations greater than 4-times the matrix spike concentration. The spike recoveries are flagged with “#” indicating that they are not a valid assessment of matrix interference. Arsenic demonstrated a slightly low bias in the MS recovery and has been flagged with an “*”.

All remaining QC criteria were met.

REPORT REVISION REQUESTED 12/04/15:

This report has been revised and resubmitted after the client has requested the sample ID be changed from “Sludge 1” to “WC-1”.

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY

Service Request:R1508875

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1508875-001	TRIP BLANK	10/15/2015	
R1508875-002	WC-1	10/15/2015	1330
R1508875-003	WC-1	10/15/2015	1330

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15 09:20

Sample Name: TRIP BLANK
Lab Code: R1508875-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	10/17/15 12:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/17/15 12:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/17/15 12:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.31	1	10/17/15 12:20	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	10/17/15 12:20	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.82	1	10/17/15 12:20	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.23	1	10/17/15 12:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.74	1	10/17/15 12:20	
1,2-Dibromoethane	1.0 U	1.0	0.24	1	10/17/15 12:20	
1,2-Dichlorobenzene	1.0 U	1.0	0.21	1	10/17/15 12:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/17/15 12:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
1,4-Dioxane	40 U	40	20	1	10/17/15 12:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/17/15 12:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/17/15 12:20	
4-Methyl-2-pentanone	5.0 U	5.0	0.67	1	10/17/15 12:20	
Acetone	5.0 U	5.0	1.3	1	10/17/15 12:20	
Benzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
Bromochloromethane	1.0 U	1.0	0.32	1	10/17/15 12:20	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/17/15 12:20	
Bromoform	1.0 U	1.0	0.42	1	10/17/15 12:20	
Bromomethane	1.0 U	1.0	0.29	1	10/17/15 12:20	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/17/15 12:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/17/15 12:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/17/15 12:20	
Chloroethane	1.0 U	1.0	0.24	1	10/17/15 12:20	
Chloroform	1.0 U	1.0	0.25	1	10/17/15 12:20	
Chloromethane	1.0 U	1.0	0.21	1	10/17/15 12:20	
Cyclohexane	1.0 U	1.0	0.25	1	10/17/15 12:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/17/15 12:20	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.46	1	10/17/15 12:20	
Dichloromethane	1.0 U	1.0	0.60	1	10/17/15 12:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/17/15 12:20	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	10/17/15 12:20	
Methyl Acetate	2.0 U	2.0	0.43	1	10/17/15 12:20	
Methyl tert-Butyl Ether	1.0 U	1.0	0.29	1	10/17/15 12:20	
Methylcyclohexane	1.0 U	1.0	0.27	1	10/17/15 12:20	
Styrene	1.0 U	1.0	0.20	1	10/17/15 12:20	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/17/15 12:20	
Toluene	1.0 U	1.0	0.20	1	10/17/15 12:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15 09:20

Sample Name: TRIP BLANK
Lab Code: R1508875-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/17/15 12:20	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.20	1	10/17/15 12:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/17/15 12:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/17/15 12:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/17/15 12:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/17/15 12:20	
o-Xylene	1.0 U	1.0	0.20	1	10/17/15 12:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/17/15 12:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/17/15 12:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/17/15 12:20	
Dibromofluoromethane	98	89 - 119	10/17/15 12:20	
Toluene-d8	103	87 - 121	10/17/15 12:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: WC-1
Lab Code: R1508875-002

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20
Basis: Dry

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	23 U	mg/Kg	23	1	10/20/15 14:00	10/20/15	
Cyanide, Reactive	9014	110 U	mg/Kg	110	1	10/19/15 18:04	10/19/15	
Cyanide, Total	9012B	23.8	mg/Kg	0.56	1	10/19/15 10:51	10/16/15	
Phenolics, Total Recoverable	9066 Modified	0.58 U	mg/Kg	0.58	1	10/16/15 11:30	10/16/15	
Sulfide, Reactive	9034 Modified	570 U	mg/Kg	570	1	10/19/15 16:09	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Sample Name: WC-1
Lab Code: R1508875-002

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20

Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Flash Point	ASTM D92-05a	>100	deg C	-	1	10/17/15 10:30	NA	
Free Liquid	9095B	Present	NONE	-	1	10/20/15 14:30	NA	
pH	9045D	7.17	pH Units	-	1	10/19/15 17:21	NA	H
Total Solids	ALS SOP	17.0	Percent	-	1	10/20/15 12:36	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20

Sample Name: WC-1
Lab Code: R1508875-002

Basis: As Received

Toxicity Characteristics Leachate Procedure (TCLP)
Inorganic Parameters

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 11:19	10/19/15	
Barium	6010C	12.5	mg/L	1.0	1	10/21/15 04:55	10/19/15	
Cadmium	6010C	0.28	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Chromium	6010C	2.17	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Lead	6010C	0.40	mg/L	0.10	1	10/20/15 11:19	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:49	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 11:19	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 11:19	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20

Sample Name: WC-1
Lab Code: R1508875-002

Units: ug/L
Basis: As Received

TCLP Volatile Organics by GC/MS

Analysis Method: 8260C

Pre-Prep Method: EPA 1311

Pre-Prep Date: 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	50 U	50	10	10/19/15 14:13	
1,2-Dichloroethane	50 U	50	10	10/19/15 14:13	
2-Butanone (MEK)	100 U	100	10	10/19/15 14:13	
Benzene	50 U	50	10	10/19/15 14:13	
Carbon Tetrachloride	50 U	50	10	10/19/15 14:13	
Chlorobenzene	50 U	50	10	10/19/15 14:13	
Chloroform	50 U	50	10	10/19/15 14:13	
Tetrachloroethene (PCE)	50 U	50	10	10/19/15 14:13	
Trichloroethene (TCE)	50 U	50	10	10/19/15 14:13	
Vinyl Chloride	50 U	50	10	10/19/15 14:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/19/15 14:13	
Dibromofluoromethane	100	89 - 119	10/19/15 14:13	
Toluene-d8	104	87 - 121	10/19/15 14:13	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20

Sample Name: WC-1
Lab Code: R1508875-002

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Pre-Prep Method: EPA 1311
Pre-Prep Date: 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 14:10	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 14:10	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 14:10	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 14:10	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 14:10	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 14:10	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 14:10	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 14:10	10/19/15	
Pyridine	500 U	500	1	10/21/15 14:10	10/19/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	103	28 - 157	10/21/15 14:10	
2-Fluorobiphenyl	90	39 - 119	10/21/15 14:10	
2-Fluorophenol	59	10 - 105	10/21/15 14:10	
Nitrobenzene-d5	93	37 - 117	10/21/15 14:10	
Phenol-d6	39	10 - 107	10/21/15 14:10	
p-Terphenyl-d14	111	40 - 133	10/21/15 14:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: WC-1
Lab Code: R1508875-003

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20
Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	16.8	Percent	-	1	10/20/15 12:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15 13:30
Date Received: 10/16/15 09:20

Sample Name: WC-1
Lab Code: R1508875-003

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	24900	mg/Kg	57	1	10/20/15 09:36	10/19/15	
Antimony, Total	6010C	49	mg/Kg	34	1	10/19/15 18:49	10/19/15	
Arsenic, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Barium, Total	6010C	2040	mg/Kg	11	1	10/19/15 18:49	10/19/15	
Beryllium, Total	6010C	1.7 U	mg/Kg	1.7	1	10/19/15 18:49	10/19/15	
Cadmium, Total	6010C	61.9	mg/Kg	2.9	1	10/19/15 18:49	10/19/15	
Calcium, Total	6010C	45900	mg/Kg	5700	10	10/19/15 18:15	10/19/15	
Chromium, Total	6010C	2390	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Cobalt, Total	6010C	63	mg/Kg	29	1	10/19/15 18:49	10/19/15	
Copper, Total	6010C	131	mg/Kg	11	1	10/20/15 09:36	10/19/15	
Iron, Total	6010C	81200	mg/Kg	570	10	10/19/15 18:15	10/19/15	
Lead, Total	6010C	545	mg/Kg	29	1	10/20/15 09:36	10/19/15	
Magnesium, Total	6010C	15200	mg/Kg	570	1	10/19/15 18:49	10/19/15	
Manganese, Total	6010C	819	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Mercury, Total	7471B	8.62	mg/Kg	0.18	1	10/19/15 12:58	10/19/15	
Nickel, Total	6010C	239	mg/Kg	23	1	10/19/15 18:49	10/19/15	
Potassium, Total	6010C	2700	mg/Kg	1100	1	10/19/15 18:49	10/19/15	
Selenium, Total	6010C	5.9	mg/Kg	5.7	1	10/20/15 09:36	10/19/15	
Silver, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Sodium, Total	6010C	730	mg/Kg	570	1	10/19/15 18:49	10/19/15	
Thallium, Total	6010C	5.7 U	mg/Kg	5.7	1	10/19/15 18:49	10/19/15	
Vanadium, Total	6010C	533	mg/Kg	29	1	10/19/15 18:49	10/19/15	
Zinc, Total	6010C	294	mg/Kg	11	1	10/20/15 09:36	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: Method Blank
Lab Code: R1508875-MB

Service Request: R1508875
Date Collected: NA
Date Received: NA
Basis: Dry

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	10/20/15 14:00	10/20/15	
Cyanide, Reactive	9014	20 U	mg/Kg	20	1	10/19/15 17:54	10/19/15	
Cyanide, Total	9012B	0.10 U	mg/Kg	0.10	1	10/19/15 10:46	10/16/15	
Phenolics, Total Recoverable	9066 Modified	0.10 U	mg/Kg	0.10	1	10/16/15 11:30	10/16/15	
Sulfide, Reactive	9034 Modified	100 U	mg/Kg	100	1	10/19/15 16:09	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: Method Blank
Lab Code: R1508875-MB

Service Request: R1508875

Date Collected: NA

Date Received: NA

Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Free Liquid	9095B	Absent	NONE	-	1	10/20/15 14:30	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R1508875-MB1

Basis: As Received

Toxicity Characteristics Leachate Procedure (TCLP)
Inorganic Parameters

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:44	10/19/15	
Barium	6010C	1.0 U	mg/L	1.0	1	10/21/15 03:17	10/19/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Lead	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:12	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:44	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:44	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: Method Blank
Lab Code: R1508875-MB2

Service Request: R1508875
Date Collected: NA
Date Received: NA
Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	10 U	mg/Kg	10	1	10/20/15 09:24	10/19/15	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	10/19/15 18:01	10/19/15	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	10/19/15 18:01	10/19/15	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	10/19/15 18:01	10/19/15	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	10/19/15 18:01	10/19/15	
Calcium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	10/19/15 18:01	10/19/15	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	10/20/15 09:24	10/19/15	
Iron, Total	6010C	10 U	mg/Kg	10	1	10/19/15 18:01	10/19/15	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	10/20/15 09:24	10/19/15	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Manganese, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Mercury, Total	7471B	0.033 U	mg/Kg	0.033	1	10/19/15 12:16	10/19/15	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	10/19/15 18:01	10/19/15	
Potassium, Total	6010C	200 U	mg/Kg	200	1	10/19/15 18:01	10/19/15	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/20/15 09:24	10/19/15	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Sodium, Total	6010C	100 U	mg/Kg	100	1	10/19/15 18:01	10/19/15	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	10/19/15 18:01	10/19/15	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	10/19/15 18:01	10/19/15	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	10/20/15 09:24	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid
Sample Name: Method Blank
Lab Code: R1508875-MB2

Service Request: R1508875
Date Collected: NA
Date Received: NA
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:04	10/19/15	
Barium	6010C	1.0 U	mg/L	1.0	1	10/21/15 02:37	10/19/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Lead	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	10/20/15 14:07	10/20/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	10/20/15 10:04	10/19/15	
Silver	6010C	0.10 U	mg/L	0.10	1	10/20/15 10:04	10/19/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512883-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.36	1	10/17/15 11:55	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/17/15 11:55	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/17/15 11:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.31	1	10/17/15 11:55	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.57	1	10/17/15 11:55	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.82	1	10/17/15 11:55	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.23	1	10/17/15 11:55	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.74	1	10/17/15 11:55	
1,2-Dibromoethane	1.0 U	1.0	0.24	1	10/17/15 11:55	
1,2-Dichlorobenzene	1.0 U	1.0	0.21	1	10/17/15 11:55	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/17/15 11:55	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
1,4-Dioxane	40 U	40	20	1	10/17/15 11:55	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/17/15 11:55	
2-Hexanone	5.0 U	5.0	1.7	1	10/17/15 11:55	
4-Methyl-2-pentanone	5.0 U	5.0	0.67	1	10/17/15 11:55	
Acetone	5.0 U	5.0	1.3	1	10/17/15 11:55	
Benzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Bromochloromethane	1.0 U	1.0	0.32	1	10/17/15 11:55	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/17/15 11:55	
Bromoform	1.0 U	1.0	0.42	1	10/17/15 11:55	
Bromomethane	1.0 U	1.0	0.29	1	10/17/15 11:55	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/17/15 11:55	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/17/15 11:55	
Chlorobenzene	1.0 U	1.0	0.29	1	10/17/15 11:55	
Chloroethane	1.0 U	1.0	0.24	1	10/17/15 11:55	
Chloroform	1.0 U	1.0	0.25	1	10/17/15 11:55	
Chloromethane	1.0 U	1.0	0.21	1	10/17/15 11:55	
Cyclohexane	1.0 U	1.0	0.25	1	10/17/15 11:55	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/17/15 11:55	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.46	1	10/17/15 11:55	
Dichloromethane	1.0 U	1.0	0.60	1	10/17/15 11:55	
Ethylbenzene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	10/17/15 11:55	
Methyl Acetate	2.0 U	2.0	0.43	1	10/17/15 11:55	
Methyl tert-Butyl Ether	1.0 U	1.0	0.29	1	10/17/15 11:55	
Methylcyclohexane	1.0 U	1.0	0.27	1	10/17/15 11:55	
Styrene	1.0 U	1.0	0.20	1	10/17/15 11:55	
Tetrachloroethene (PCE)	1.0 U	1.0	0.30	1	10/17/15 11:55	
Toluene	1.0 U	1.0	0.20	1	10/17/15 11:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512883-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	10/17/15 11:55	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.20	1	10/17/15 11:55	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/17/15 11:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/17/15 11:55	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/17/15 11:55	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/17/15 11:55	
o-Xylene	1.0 U	1.0	0.20	1	10/17/15 11:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/17/15 11:55	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/17/15 11:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/17/15 11:55	
Dibromofluoromethane	97	89 - 119	10/17/15 11:55	
Toluene-d8	103	87 - 121	10/17/15 11:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512574-01

Units: ug/L
Basis: As Received

TCLP Volatile Organics by GC/MS

Analysis Method: 8260C

Pre-Prep Method: EPA 1311

Pre-Prep Date: 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/19/15 10:59	
1,2-Dichloroethane	5.0 U	5.0	1	10/19/15 10:59	
2-Butanone (MEK)	10 U	10	1	10/19/15 10:59	
Benzene	5.0 U	5.0	1	10/19/15 10:59	
Carbon Tetrachloride	5.0 U	5.0	1	10/19/15 10:59	
Chlorobenzene	5.0 U	5.0	1	10/19/15 10:59	
Chloroform	5.0 U	5.0	1	10/19/15 10:59	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/19/15 10:59	
Trichloroethene (TCE)	5.0 U	5.0	1	10/19/15 10:59	
Vinyl Chloride	5.0 U	5.0	1	10/19/15 10:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/19/15 10:59	
Dibromofluoromethane	99	89 - 119	10/19/15 10:59	
Toluene-d8	106	87 - 121	10/19/15 10:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512730-10

Units: ug/L
Basis: As Received

TCLP Volatile Organics by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	10/19/15 10:32	
1,2-Dichloroethane	5.0 U	5.0	1	10/19/15 10:32	
2-Butanone (MEK)	10 U	10	1	10/19/15 10:32	
Benzene	5.0 U	5.0	1	10/19/15 10:32	
Carbon Tetrachloride	5.0 U	5.0	1	10/19/15 10:32	
Chlorobenzene	5.0 U	5.0	1	10/19/15 10:32	
Chloroform	5.0 U	5.0	1	10/19/15 10:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	10/19/15 10:32	
Trichloroethene (TCE)	5.0 U	5.0	1	10/19/15 10:32	
Vinyl Chloride	5.0 U	5.0	1	10/19/15 10:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	10/19/15 10:32	
Dibromofluoromethane	100	89 - 119	10/19/15 10:32	
Toluene-d8	103	87 - 121	10/19/15 10:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512577-01

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Pre-Prep Method: EPA 1311
Pre-Prep Date: 10/16/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 14:36	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 14:36	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 14:36	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 14:36	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 14:36	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 14:36	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 14:36	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 14:36	10/19/15	
Pyridine	500 U	500	1	10/21/15 14:36	10/19/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	104	28 - 157	10/21/15 14:36	
2-Fluorobiphenyl	99	39 - 119	10/21/15 14:36	
2-Fluorophenol	59	10 - 105	10/21/15 14:36	
Nitrobenzene-d5	93	37 - 117	10/21/15 14:36	
Phenol-d6	38	10 - 107	10/21/15 14:36	
p-Terphenyl-d14	107	40 - 133	10/21/15 14:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1512615-01

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
2,4,5-Trichlorophenol	100 U	100	1	10/21/15 09:28	10/19/15	
2,4,6-Trichlorophenol	100 U	100	1	10/21/15 09:28	10/19/15	
2,4-Dinitrotoluene	100 U	100	1	10/21/15 09:28	10/19/15	
2-Methylphenol	100 U	100	1	10/21/15 09:28	10/19/15	
3- and 4-Methylphenol Coelution	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachlorobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachlorobutadiene	100 U	100	1	10/21/15 09:28	10/19/15	
Hexachloroethane	100 U	100	1	10/21/15 09:28	10/19/15	
Nitrobenzene	100 U	100	1	10/21/15 09:28	10/19/15	
Pentachlorophenol (PCP)	500 U	500	1	10/21/15 09:28	10/19/15	
Pyridine	500 U	500	1	10/21/15 09:28	10/19/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	96	28 - 157	10/21/15 09:28	
2-Fluorobiphenyl	83	39 - 119	10/21/15 09:28	
2-Fluorophenol	50	10 - 105	10/21/15 09:28	
Nitrobenzene-d5	84	37 - 117	10/21/15 09:28	
Phenol-d6	34	10 - 107	10/21/15 09:28	
p-Terphenyl-d14	106	40 - 133	10/21/15 09:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/16/15 - 10/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1508875-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	672	650	103	80-120
Cyanide, Reactive	9014	4.59	209	2	1-100
Cyanide, Total	9012B	0.984	1.00	98	85-115
Phenolics, Total Recoverable	9066 Modified	0.695	0.80	87	59-128
Sulfide, Reactive	9034 Modified	75.0	80	91	21-118

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1508875-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	4.00	4.00	100	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15
Date Analyzed: 10/16/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: WC-1
Lab Code: R1508875-002

Units: mg/Kg
Basis: Dry

					Duplicate Sample R1508875- 002DUP		
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Phenolics, Total Recoverable	9066 Modified	0.58	0.58 U	0.58 U	NC	NC	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15
Date Analyzed: 10/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: WC-1
Lab Code: R1508875-002

Units: Percent
Basis: As Received

				Duplicate Sample R1508875- 002DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	17.0	16.7	16.9	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15
Date Analyzed: 10/16/15
Date Extracted: 10/16/15

Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name: WC-1
Lab Code: R1508875-002
Analysis Method: 9066 Modified
Prep Method: Method

Units: mg/Kg
Basis: Dry

Matrix Spike
R1508875-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	0.58 U	4.16	4.65	90	72-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/19/15 - 10/20/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1508875-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	191	200	96	80-120
Antimony, Total	6010C	50.2	50.0	100	80-120
Arsenic, Total	6010C	3.92	4.0	98	80-120
Barium, Total	6010C	208	200	104	80-120
Beryllium, Total	6010C	5.08	5.00	102	80-120
Cadmium, Total	6010C	5.41	5.00	108	80-120
Calcium, Total	6010C	219	200	109	80-120
Chromium, Total	6010C	21.0	20.0	105	80-120
Cobalt, Total	6010C	53.1	50.0	106	80-120
Copper, Total	6010C	25.9	25.0	104	80-120
Iron, Total	6010C	103	100	103	80-120
Lead, Total	6010C	49.5	50.0	99	80-120
Magnesium, Total	6010C	208	200	104	80-120
Manganese, Total	6010C	51.6	50.0	103	80-120
Mercury, Total	7471B	0.171	0.167	102	80-120
Nickel, Total	6010C	53.1	50.0	106	80-120
Potassium, Total	6010C	2030	2000	102	80-120
Selenium, Total	6010C	94.6	101	94	80-120
Silver, Total	6010C	5.55	5.0	111	80-120
Sodium, Total	6010C	2000	2000	100	80-120
Thallium, Total	6010C	194	200	97	80-120
Vanadium, Total	6010C	51.6	50.0	103	80-120
Zinc, Total	6010C	50.3	50.0	101	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/20/15 - 10/21/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:As Received

Lab Control Sample
R1508875-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	4.90	5.0	98	80-120
Barium	6010C	1.96	2.0	98	80-120
Cadmium	6010C	1.04	1.00	104	80-120
Chromium	6010C	5.10	5.00	102	80-120
Lead	6010C	5.37	5.00	107	80-120
Mercury	7470A	0.00112	0.00100	112	80-120
Selenium	6010C	0.918	1.00	92	80-120
Silver	6010C	5.21	5.00	104	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Collected: 10/15/15
Date Received: 10/16/15
Date Analyzed: 10/19/15 - 10/20/15

Replicate Sample Summary

Inorganic Parameters

Sample Name: WC-1
Lab Code: R1508875-003

Units: mg/Kg
Basis: Dry

Duplicate Sample R1508875- 003DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Aluminum, Total	6010C	57	24900	24900	24900	<1	20
Antimony, Total	6010C	34	49	51	50.0	2	20
Arsenic, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Barium, Total	6010C	11	2040	2000	2020	2	20
Beryllium, Total	6010C	1.7	1.7 U	1.7 U	NC	NC	20
Cadmium, Total	6010C	2.8	61.9	63.5	62.7	3	20
Calcium, Total	6010C	5700	45900	48500	47200	6	20
Chromium, Total	6010C	5.7	2390	2420	2410	1	20
Cobalt, Total	6010C	28	63	63	62.9	<1	20
Copper, Total	6010C	11	131	135	133	3	20
Iron, Total	6010C	570	81200	83100	82200	2	20
Lead, Total	6010C	28	545	553	549	2	20
Magnesium, Total	6010C	570	15200	15400	15300	1	20
Manganese, Total	6010C	5.7	819	851	835	4	20
Nickel, Total	6010C	23	239	242	240	1	20
Potassium, Total	6010C	1100	2700	2700	2710	<1	20
Selenium, Total	6010C	5.7	5.9	5.7 U	NC	NC	20
Silver, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Sodium, Total	6010C	570	730	780	755	7	20
Thallium, Total	6010C	5.7	5.7 U	5.7 U	NC	NC	20
Vanadium, Total	6010C	28	533	534	533	<1	20
Zinc, Total	6010C	11	294	298	296	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request:R1508875
Date Collected:10/15/15
Date Received:10/16/15
Date Analyzed:10/19/15 - 10/20/15

Matrix Spike Summary
Inorganic Parameters

Sample Name: WC-1
Lab Code: R1508875-003

Units:mg/Kg
Basis:Dry

Matrix Spike
R1508875-003MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	24900	26000	1190	92 #	75-125
Antimony, Total	6010C	49	273	298	75	75-125
Arsenic, Total	6010C	6.0	14.8	23.8	62 *	75-125
Barium, Total	6010C	2040	3050	1190	85	75-125
Beryllium, Total	6010C	1.8	26.8	29.8	90	75-125
Cadmium, Total	6010C	61.9	92.8	29.8	104	75-125
Calcium, Total	6010C	45900	50000	1200	344 #	75-125
Chromium, Total	6010C	2390	2590	119	165 #	75-125
Cobalt, Total	6010C	63	337	298	92	75-125
Copper, Total	6010C	131	262	149	88	75-125
Iron, Total	6010C	81200	84900	600	625 #	75-125
Lead, Total	6010C	545	912	298	123	75-125
Magnesium, Total	6010C	15200	16800	1190	136 #	75-125
Manganese, Total	6010C	819	1070	298	85	75-125
Nickel, Total	6010C	239	509	298	91	75-125
Potassium, Total	6010C	2700	12800	11900	85	75-125
Selenium, Total	6010C	5.9	496	601	82	75-125
Silver, Total	6010C	6.0	30.3	29.8	102	75-125
Sodium, Total	6010C	730	11100	11900	87	75-125
Thallium, Total	6010C	6.0	1000	1190	84	75-125
Vanadium, Total	6010C	533	816	298	95	75-125
Zinc, Total	6010C	294	538	298	82	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Analyzed: 10/17/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1512883-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.3	20.0	96	74-120
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	104	78-122
1,1,2-Trichloroethane	8260C	18.9	20.0	94	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	21.6	20.0	108	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	21.0	20.0	105	74-135
1,2,3-Trichlorobenzene	8260C	20.2	20.0	101	56-164
1,2,4-Trichlorobenzene	8260C	19.1	20.0	96	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.1	20.0	85	55-149
1,2-Dibromoethane	8260C	18.6	20.0	93	81-125
1,2-Dichlorobenzene	8260C	18.6	20.0	93	80-119
1,2-Dichloroethane	8260C	19.5	20.0	97	71-127
1,2-Dichloropropane	8260C	20.1	20.0	100	80-119
1,3-Dichlorobenzene	8260C	19.1	20.0	95	79-121
1,4-Dichlorobenzene	8260C	18.3	20.0	92	79-119
1,4-Dioxane	8260C	404	400	101	69-151
2-Butanone (MEK)	8260C	23.7	20.0	119	61-137
2-Hexanone	8260C	23.1	20.0	115	63-124
4-Methyl-2-pentanone	8260C	22.5	20.0	113	66-124
Acetone	8260C	27.6	20.0	138	40-161
Benzene	8260C	20.1	20.0	101	76-118
Bromochloromethane	8260C	19.0	20.0	95	81-126
Bromodichloromethane	8260C	19.1	20.0	95	78-126
Bromoform	8260C	16.7	20.0	83	71-136
Bromomethane	8260C	21.7	20.0	108	42-166
Carbon Disulfide	8260C	19.0	20.0	95	65-127
Carbon Tetrachloride	8260C	19.8	20.0	99	68-125
Chlorobenzene	8260C	18.7	20.0	94	80-121
Chloroethane	8260C	20.2	20.0	101	70-127
Chloroform	8260C	20.3	20.0	102	76-120
Chloromethane	8260C	25.4	20.0	127	69-145
Cyclohexane	8260C	21.9	20.0	110	63-121
Dibromochloromethane	8260C	17.4	20.0	87	77-128

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Water

Service Request: R1508875
Date Analyzed: 10/17/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1512883-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	26.4	20.0	132	65-152
Dichloromethane	8260C	20.6	20.0	103	73-122
Ethylbenzene	8260C	19.1	20.0	95	76-120
Isopropylbenzene (Cumene)	8260C	19.5	20.0	97	78-126
Methyl Acetate	8260C	21.7	20.0	108	62-131
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	78-125
Methylcyclohexane	8260C	23.1	20.0	115	51-129
Styrene	8260C	19.9	20.0	99	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	78-124
Toluene	8260C	19.0	20.0	95	77-120
Trichloroethene (TCE)	8260C	18.7	20.0	94	78-123
Trichlorofluoromethane (CFC 11)	8260C	20.1	20.0	100	68-126
Vinyl Chloride	8260C	22.0	20.0	110	69-133
cis-1,2-Dichloroethene	8260C	20.7	20.0	103	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	74-126
m,p-Xylenes	8260C	38.6	40.0	97	78-123
o-Xylene	8260C	19.1	20.0	95	80-120
trans-1,2-Dichloroethene	8260C	21.4	20.0	107	80-120
trans-1,3-Dichloropropene	8260C	19.2	20.0	96	67-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/19/15

Lab Control Sample Summary
TCLP Volatile Organics by GC/MS

Units:ug/L
Basis:As Received

Lab Control Sample
RQ1512730-08

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethene (1,1-DCE)	8260C	20.9	20.0	104	74-135
1,2-Dichloroethane	8260C	19.3	20.0	96	71-127
2-Butanone (MEK)	8260C	20.5	20.0	103	61-137
Benzene	8260C	20.0	20.0	100	76-118
Carbon Tetrachloride	8260C	19.9	20.0	99	68-125
Chlorobenzene	8260C	18.8	20.0	94	80-121
Chloroform	8260C	20.3	20.0	101	76-120
Tetrachloroethene (PCE)	8260C	19.2	20.0	96	78-124
Trichloroethene (TCE)	8260C	19.1	20.0	96	78-123
Vinyl Chloride	8260C	21.8	20.0	109	69-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Glens Falls -Queensbury, NY
Sample Matrix: Sludge, Solid

Service Request: R1508875
Date Analyzed: 10/21/15

Duplicate Lab Control Sample Summary
TCLP Semivolatile Organic Compounds by GC/MS

Units:ug/L

Basis:As Received

Analyte Name	Lab Control Sample RQ1512615-02				Duplicate Lab Control Sample RQ1512615-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	8270D	575	1000	57	632	1000	63	10-124	9	30
2,4,5-Trichlorophenol	8270D	991	1000	99	1070	1000	107	62-117	7	30
2,4,6-Trichlorophenol	8270D	881	1000	88	994	1000	99	62-115	12	30
2,4-Dinitrotoluene	8270D	932	1000	93	1030	1000	103	69-122	10	30
2-Methylphenol	8270D	792	1000	79	858	1000	86	59-104	8	30
3- and 4-Methylphenol Coelution	8270D	1560	2000	78	1710	2000	85	50-111	9	30
Hexachlorobenzene	8270D	929	1000	93	1010	1000	101	76-119	8	30
Hexachlorobutadiene	8270D	512	1000	51	548	1000	55	16-95	7	30
Hexachloroethane	8270D	599	1000	60	627	1000	63	15-92	5	30
Nitrobenzene	8270D	866	1000	87	942	1000	94	51-113	8	30
Pentachlorophenol (PCP)	8270D	761	1000	76	845	1000	84	56-146	10	30
Pyridine	8270D	418	1000	42	513	1000	51	10-123	20	30

MARK SCHUMACHER 5788 Widewaters Pkwy, 2nd Floor, Syracuse, NY 13214 e-mail: Mark.schumacher@antaagroup.com		Phone # 315-558-9833 Email mark.schumacher@antaagroup.com	
Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group		Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group	
CLIENT SAMPLE ID TRAP BLANK SLUDGE 1	FOR OFFICE USE ONLY LAB ID DATE 10/15/15 10/15/15	SAMPLING TIME N/A 13:30	MATRIX water solid/sludge
NUMBER OF CONTAINERS GC/MS VOA's ° 8260 ° 624 ° CLP GC/MS SVOA's ° 8270 ° 625 PCBs ° 8082 ° 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chromium Total Cyanide TCLP metals 6010 + 7470 Corrosivity Ignitability/Flash Reactivity Paint Filter 9095		TCEP VOC 8260 C TCEP SVOA's 8270 D PCBs 8082 METALS TAL metals List Chromium 7196 Cyanide 9012 B metals 6010 + 7470 Corrosivity Ignitability/Flash Reactivity Paint Filter 9095	
SPECIAL INSTRUCTIONS/COMMENTS Metals TAL list (EPA 6010, 7470 A) VOC TCLP Full list SVOC TCLP Full list *electronic data due for all analyses except 8005-day on 3 day AT. standard data package these and waste characterization samples. See OAPP <input type="checkbox"/>		TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE 10-20-15 CDB	
STATE WHERE SAMPLES WERE COLLECTED NY		REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MSMSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edita <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
RELINQUISHED BY Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group		RELINQUISHED BY Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group	
RECEIVED BY Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group		RECEIVED BY Signature: <i>Carolyn Clemmens</i> Printed Name: Carolyn Clemmens Firm: Antea Group	
Date/Time: 10/15/15 @ 14:17		Date/Time: 10/15/15 17:00	
Distribution: White - Lab Copy; Yellow - Return to Originator		Distribution: White - Lab Copy; Yellow - Return to Originator	



Cooler Receipt and Preservation Check Form

Project/Client Antem Folder Number 215-8875

Cooler received on 10/14/15 by: R

COURIER: ALS UPS FEDEX VELOCITY CLIE

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y
6	Where did the bottles originate?	ALS/ROC
7	Soil VOA received as:	Bulk Encore 5035set

8. Temperature Readings Date: 10/14/15 Time: 0927 ID: IR#3 IR#5 From: Temp Blank ☒

Observed Temp (°C)	<u>3.5</u>					
Correction Factor (°C)	<u>-</u>					
Corrected Temp (°C)	<u>3.5°</u>					
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day R

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by R on 10/14/15 at 0925
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: VNB

Cooler Breakdown: Date: 10/16/15 Time: 10:28 by: MAE

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated ☒ N

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Y
≥12	NaOH									s
≤2	HNO ₃									N
≤2	H ₂ SO ₄									w
<4	NaHSO ₄									P
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						T li
	Na ₂ S ₂ O ₃	-	-							P
	ZnAcetate	-	-							A
	HCl	**	**	<u>4114070</u>						-

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 11873-1BNY, 06518-1BNS
Other Comments:

PC Secondary Review: VNB 10/18/15

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diame



November 11, 2015

Service Request No:R1509359

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015
For your reference, these analyses have been assigned our service request number **R1509359**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

ALS Environmental

Client: Antea
Service Request No.: R1509359
Project: Glens Falls
Date Received: 10/31/15
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested however performed on CHIPS-1. Accuracy and precision were acceptable with the exception of various Volatile compounds. Outlying MS recoveries and RPDs have been flagged with an “*”. Associated LCS recoveries were acceptable.

All remaining QC criteria were met.

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals

Service Request:R1509359

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509359-001	CHIPS-1	10/30/2015	1200

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil
Sample Name: CHIPS-1
Lab Code: R1509359-001

Service Request: R1509359
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55
Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	72.9	Percent	-	1	11/04/15 13:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Sample Name: CHIPS-1
Lab Code: R1509359-001

Service Request: R1509359
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	1120	mg/Kg	13	1	11/04/15 11:11	11/02/15	
Antimony, Total	6010C	43.2	mg/Kg	7.9	1	11/03/15 23:35	11/02/15	
Arsenic, Total	6010C	1.6	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Barium, Total	6010C	476	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	
Beryllium, Total	6010C	0.40 U	mg/Kg	0.40	1	11/03/15 23:35	11/02/15	
Cadmium, Total	6010C	22.7	mg/Kg	0.66	1	11/03/15 23:35	11/02/15	
Calcium, Total	6010C	16500	mg/Kg	2600	20	11/03/15 17:14	11/02/15	
Chromium, Total	6010C	489	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Cobalt, Total	6010C	61.3	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Copper, Total	6010C	152	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	
Iron, Total	6010C	133000	mg/Kg	260	20	11/03/15 17:14	11/02/15	
Lead, Total	6010C	1050	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Magnesium, Total	6010C	190	mg/Kg	130	1	11/03/15 23:35	11/02/15	
Manganese, Total	6010C	479	mg/Kg	1.3	1	11/03/15 23:35	11/02/15	
Mercury, Total	7471B	6.30	mg/Kg	0.43	10	11/04/15 10:00	11/03/15	
Nickel, Total	6010C	92.6	mg/Kg	5.3	1	11/03/15 23:35	11/02/15	
Potassium, Total	6010C	260 U	mg/Kg	260	1	11/04/15 11:11	11/02/15	
Selenium, Total	6010C	8.5	mg/Kg	1.3	1	11/04/15 11:27	11/02/15	
Silver, Total	6010C	4.0 U	mg/Kg	4.0	3	11/04/15 11:21	11/02/15	
Sodium, Total	6010C	210	mg/Kg	130	1	11/04/15 11:11	11/02/15	
Thallium, Total	6010C	4.0 U	mg/Kg	4.0	3	11/04/15 11:21	11/02/15	
Vanadium, Total	6010C	462	mg/Kg	6.6	1	11/03/15 23:35	11/02/15	
Zinc, Total	6010C	169	mg/Kg	2.6	1	11/03/15 23:35	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Sample Name: CHIPS-1
Lab Code: R1509359-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	15 U	15	2.21	11/03/15 12:27	
1,1,2,2-Tetrachloroethane	15 U	15	2.21	11/03/15 12:27	
1,1,2-Trichloroethane	15 U	15	2.21	11/03/15 12:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	15 U	15	2.21	11/03/15 12:27	
1,1-Dichloroethane (1,1-DCA)	15 U	15	2.21	11/03/15 12:27	
1,1-Dichloroethene (1,1-DCE)	15 U	15	2.21	11/03/15 12:27	
1,2,3-Trichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2,4-Trichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2-Dibromo-3-chloropropane (DBCP)	15 U	15	2.21	11/03/15 12:27	
1,2-Dibromoethane	15 U	15	2.21	11/03/15 12:27	
1,2-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,2-Dichloroethane	15 U	15	2.21	11/03/15 12:27	
1,2-Dichloropropane	15 U	15	2.21	11/03/15 12:27	
1,3-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,4-Dichlorobenzene	15 U	15	2.21	11/03/15 12:27	
1,4-Dioxane	300 U	300	2.21	11/03/15 12:27	
2-Butanone (MEK)	150	15	2.21	11/03/15 12:27	
2-Hexanone	180	15	2.21	11/03/15 12:27	
4-Methyl-2-pentanone	24	15	2.21	11/03/15 12:27	
Acetone	160	15	2.21	11/03/15 12:27	
Benzene	29	15	2.21	11/03/15 12:27	
Bromochloromethane	15 U	15	2.21	11/03/15 12:27	
Bromodichloromethane	15 U	15	2.21	11/03/15 12:27	
Bromoform	15 U	15	2.21	11/03/15 12:27	
Bromomethane	15 U	15	2.21	11/03/15 12:27	
Carbon Disulfide	15 U	15	2.21	11/03/15 12:27	
Carbon Tetrachloride	15 U	15	2.21	11/03/15 12:27	
Chlorobenzene	15 U	15	2.21	11/03/15 12:27	
Chloroethane	15 U	15	2.21	11/03/15 12:27	
Chloroform	15 U	15	2.21	11/03/15 12:27	
Chloromethane	15 U	15	2.21	11/03/15 12:27	
Cyclohexane	15 U	15	2.21	11/03/15 12:27	
Dibromochloromethane	15 U	15	2.21	11/03/15 12:27	
Dichlorodifluoromethane (CFC 12)	15 U	15	2.21	11/03/15 12:27	
Dichloromethane	15 U	15	2.21	11/03/15 12:27	
Ethylbenzene	270	15	2.21	11/03/15 12:27	
Isopropylbenzene (Cumene)	15 U	15	2.21	11/03/15 12:27	
Methyl Acetate	15 U	15	2.21	11/03/15 12:27	
Methyl tert-Butyl Ether	15 U	15	2.21	11/03/15 12:27	
Methylcyclohexane	15 U	15	2.21	11/03/15 12:27	
Styrene	590	15	2.21	11/03/15 12:27	
Tetrachloroethene (PCE)	15 U	15	2.21	11/03/15 12:27	
Toluene	340	15	2.21	11/03/15 12:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Sample Name: CHIPS-1
Lab Code: R1509359-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	15 U	15	2.21	11/03/15 12:27	
Trichlorofluoromethane (CFC 11)	15 U	15	2.21	11/03/15 12:27	
Vinyl Chloride	15 U	15	2.21	11/03/15 12:27	
cis-1,2-Dichloroethene	15 U	15	2.21	11/03/15 12:27	
cis-1,3-Dichloropropene	15 U	15	2.21	11/03/15 12:27	
m,p-Xylenes	550	30	2.21	11/03/15 12:27	
o-Xylene	220	15	2.21	11/03/15 12:27	
trans-1,2-Dichloroethene	15 U	15	2.21	11/03/15 12:27	
trans-1,3-Dichloropropene	15 U	15	2.21	11/03/15 12:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	63	51 - 136	11/03/15 12:27	
Dibromofluoromethane	89	63 - 138	11/03/15 12:27	
Toluene-d8	87	66 - 138	11/03/15 12:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Sample Name: Method Blank
Lab Code: R1509359-MB

Service Request: R1509359
Date Collected: NA
Date Received: NA

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	10 U	mg/Kg	10	1	11/04/15 10:48	11/02/15	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	11/03/15 21:27	11/02/15	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	11/03/15 21:27	11/02/15	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	11/03/15 21:27	11/02/15	
Calcium, Total	6010C	100 U	mg/Kg	100	1	11/03/15 16:51	11/02/15	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	
Iron, Total	6010C	10 U	mg/Kg	10	1	11/03/15 16:51	11/02/15	
Lead, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	11/03/15 21:27	11/02/15	
Manganese, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Mercury, Total	7471B	0.033 U	mg/Kg	0.033	1	11/04/15 09:17	11/03/15	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	11/03/15 21:27	11/02/15	
Potassium, Total	6010C	200 U	mg/Kg	200	1	11/04/15 10:48	11/02/15	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Sodium, Total	6010C	100 U	mg/Kg	100	1	11/04/15 10:48	11/02/15	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/03/15 21:27	11/02/15	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	11/03/15 21:27	11/02/15	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	11/03/15 21:27	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513639-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	11/03/15 10:32	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1,2-Trichloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	11/03/15 10:32	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	11/03/15 10:32	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/03/15 10:32	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dibromoethane	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichloroethane	5.0 U	5.0	1	11/03/15 10:32	
1,2-Dichloropropane	5.0 U	5.0	1	11/03/15 10:32	
1,3-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,4-Dichlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
1,4-Dioxane	100 U	100	1	11/03/15 10:32	
2-Butanone (MEK)	5.0 U	5.0	1	11/03/15 10:32	
2-Hexanone	5.0 U	5.0	1	11/03/15 10:32	
4-Methyl-2-pentanone	5.0 U	5.0	1	11/03/15 10:32	
Acetone	5.0 U	5.0	1	11/03/15 10:32	
Benzene	5.0 U	5.0	1	11/03/15 10:32	
Bromochloromethane	5.0 U	5.0	1	11/03/15 10:32	
Bromodichloromethane	5.0 U	5.0	1	11/03/15 10:32	
Bromoform	5.0 U	5.0	1	11/03/15 10:32	
Bromomethane	5.0 U	5.0	1	11/03/15 10:32	
Carbon Disulfide	5.0 U	5.0	1	11/03/15 10:32	
Carbon Tetrachloride	5.0 U	5.0	1	11/03/15 10:32	
Chlorobenzene	5.0 U	5.0	1	11/03/15 10:32	
Chloroethane	5.0 U	5.0	1	11/03/15 10:32	
Chloroform	5.0 U	5.0	1	11/03/15 10:32	
Chloromethane	5.0 U	5.0	1	11/03/15 10:32	
Cyclohexane	5.0 U	5.0	1	11/03/15 10:32	
Dibromochloromethane	5.0 U	5.0	1	11/03/15 10:32	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	11/03/15 10:32	
Dichloromethane	5.0 U	5.0	1	11/03/15 10:32	
Ethylbenzene	5.0 U	5.0	1	11/03/15 10:32	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	11/03/15 10:32	
Methyl Acetate	5.0 U	5.0	1	11/03/15 10:32	
Methyl tert-Butyl Ether	5.0 U	5.0	1	11/03/15 10:32	
Methylcyclohexane	5.0 U	5.0	1	11/03/15 10:32	
Styrene	5.0 U	5.0	1	11/03/15 10:32	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/03/15 10:32	
Toluene	5.0 U	5.0	1	11/03/15 10:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513639-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/03/15 10:32	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/03/15 10:32	
Vinyl Chloride	5.0 U	5.0	1	11/03/15 10:32	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/03/15 10:32	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/03/15 10:32	
m,p-Xylenes	10 U	10	1	11/03/15 10:32	
o-Xylene	5.0 U	5.0	1	11/03/15 10:32	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/03/15 10:32	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/03/15 10:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	51 - 136	11/03/15 10:32	
Dibromofluoromethane	85	63 - 138	11/03/15 10:32	
Toluene-d8	85	66 - 138	11/03/15 10:32	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Analyzed: 11/03/15 - 11/04/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1509359-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	189	200	95	80-120
Antimony, Total	6010C	41.6	50.0	83	80-120
Arsenic, Total	6010C	4.05	4.0	101	80-120
Barium, Total	6010C	202	200	101	80-120
Beryllium, Total	6010C	4.59	5.00	92	80-120
Cadmium, Total	6010C	4.75	5.00	95	80-120
Calcium, Total	6010C	176	200	88	80-120
Chromium, Total	6010C	20.7	20.0	104	80-120
Cobalt, Total	6010C	48.3	50.0	97	80-120
Copper, Total	6010C	24.6	25.0	98	80-120
Iron, Total	6010C	103	100	103	80-120
Lead, Total	6010C	48.2	50.0	96	80-120
Magnesium, Total	6010C	197	200	99	80-120
Manganese, Total	6010C	50.1	50.0	100	80-120
Mercury, Total	7471B	0.166	0.167	100	80-120
Nickel, Total	6010C	50.0	50.0	100	80-120
Potassium, Total	6010C	1910	2000	95	80-120
Selenium, Total	6010C	89.9	101	89	80-120
Silver, Total	6010C	4.65	5.0	93	80-120
Sodium, Total	6010C	1870	2000	93	80-120
Thallium, Total	6010C	184	200	92	80-120
Vanadium, Total	6010C	47.0	50.0	94	80-120
Zinc, Total	6010C	49.7	50.0	99	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Analyzed: 11/03/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1513639-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.1	20.0	90	40-140
1,1,2,2-Tetrachloroethane	8260C	15.1	20.0	76	40-140
1,1,2-Trichloroethane	8260C	15.6	20.0	78	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.8	20.0	94	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	18.9	20.0	94	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	20.9	20.0	105	40-140
1,2,3-Trichlorobenzene	8260C	18.8	20.0	94	40-140
1,2,4-Trichlorobenzene	8260C	18.9	20.0	94	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	15.8	20.0	79	40-140
1,2-Dibromoethane	8260C	17.6	20.0	88	40-140
1,2-Dichlorobenzene	8260C	19.5	20.0	98	40-140
1,2-Dichloroethane	8260C	18.2	20.0	91	40-140
1,2-Dichloropropane	8260C	18.7	20.0	93	40-140
1,3-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,4-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,4-Dioxane	8260C	331	400	83	40-140
2-Butanone (MEK)	8260C	17.4	20.0	87	40-140
2-Hexanone	8260C	15.2	20.0	76	40-140
4-Methyl-2-pentanone	8260C	15.8	20.0	79	40-140
Acetone	8260C	20.1	20.0	100	40-140
Benzene	8260C	19.5	20.0	98	40-140
Bromochloromethane	8260C	18.3	20.0	92	40-140
Bromodichloromethane	8260C	18.1	20.0	91	40-140
Bromoform	8260C	16.6	20.0	83	40-140
Bromomethane	8260C	22.2	20.0	111	40-140
Carbon Disulfide	8260C	18.1	20.0	91	40-140
Carbon Tetrachloride	8260C	19.2	20.0	96	40-140
Chlorobenzene	8260C	19.7	20.0	98	40-140
Chloroethane	8260C	20.0	20.0	100	40-140
Chloroform	8260C	18.8	20.0	94	40-140
Chloromethane	8260C	19.6	20.0	98	40-140
Cyclohexane	8260C	18.6	20.0	93	40-140
Dibromochloromethane	8260C	17.5	20.0	88	40-140

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Analyzed: 11/03/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1513639-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	24.3	20.0	121	40-140
Dichloromethane	8260C	18.1	20.0	90	40-140
Ethylbenzene	8260C	19.8	20.0	99	40-140
Isopropylbenzene (Cumene)	8260C	20.5	20.0	102	40-140
Methyl Acetate	8260C	16.3	20.0	81	40-140
Methyl tert-Butyl Ether	8260C	16.6	20.0	83	40-140
Methylcyclohexane	8260C	19.3	20.0	96	40-140
Styrene	8260C	19.6	20.0	98	40-140
Tetrachloroethene (PCE)	8260C	21.4	20.0	107	40-140
Toluene	8260C	17.9	20.0	89	40-140
Trichloroethene (TCE)	8260C	20.7	20.0	103	40-140
Trichlorofluoromethane (CFC 11)	8260C	19.7	20.0	98	40-140
Vinyl Chloride	8260C	19.9	20.0	100	40-140
cis-1,2-Dichloroethene	8260C	19.1	20.0	95	40-140
cis-1,3-Dichloropropene	8260C	17.6	20.0	88	40-140
m,p-Xylenes	8260C	39.2	40.0	98	40-140
o-Xylene	8260C	19.6	20.0	98	40-140
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	40-140
trans-1,3-Dichloropropene	8260C	14.3	20.0	72	40-140

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/3/15
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: CHIPS-1
Lab Code: R1509359-001
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike RQ1513639-05			Duplicate Matrix Spike RQ1513639-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	15 U	108	150	72	108	152	71	51-132	1	30
1,1,2,2-Tetrachloroethane	15 U	163	150	109	154	152	102	53-134	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	15 U	107	150	72	106	152	70	45-136	3	30
1,1,2-Trichloroethane	15 U	102	150	68	103	152	68	62-126	<1	30
1,1-Dichloroethane (1,1-DCA)	15 U	114	150	76	113	152	74	53-131	3	30
1,1-Dichloroethene (1,1-DCE)	15 U	103	150	69	103	152	68	61-139	1	30
1,2,3-Trichlorobenzene	15 U	50.7	150	34	47.9	152	32	10-179	6	30
1,2,4-Trichlorobenzene	15 U	44.6	150	30	43.2	152	28	10-179	7	30
1,2-Dibromo-3-chloropropane (DBCP)	15 U	120	150	80	125	152	83	27-163	4	30
1,2-Dibromoethane	15 U	90.4	150	60	103	152	68	52-137	12	30
1,2-Dichlorobenzene	15 U	88.4	150	59	85.7	152	57	22-156	3	30
1,2-Dichloroethane	15 U	105	150	70	104	152	69	59-125	1	30
1,2-Dichloropropane	15 U	116	150	78	116	152	76	67-126	3	30
1,3-Dichlorobenzene	15 U	79.5	150	53	76.5	152	50	29-146	6	30
1,4-Dichlorobenzene	15 U	71.0	150	47	67.5	152	45	10-172	4	30
1,4-Dioxane	300 U	2950	2990	99	3040	3030	100	50-148	1	30
2-Butanone (MEK)	150	784	150	421 *	1140	152	649 *	43-134	43*	30
2-Hexanone	180	650	150	315 *	960	152	515 *	37-146	48*	30
4-Methyl-2-pentanone	24	134	150	74	185	152	106	47-145	36*	30
Acetone	160	1170	150	674 *	1320	152	763 *	11-183	12	30
Benzene	29	160	150	88	159	152	86	63-126	2	30
Bromochloromethane	15 U	92.5	150	62	93.2	152	61	60-119	2	30
Bromodichloromethane	15 U	94.5	150	63	96.5	152	64	47-141	2	30
Bromoform	15 U	75.3	150	50	85.5	152	56	26-157	11	30
Bromomethane	15 U	138	150	92	127	152	84	10-137	9	30
Carbon Disulfide	15 U	63.7	150	43	70.2	152	46	35-135	7	30
Carbon Tetrachloride	15 U	103	150	69	106	152	70	46-137	1	30
Chlorobenzene	15 U	87.0	150	58	85.5	152	56	51-132	4	30
Chloroethane	15 U	117	150	79	114	152	75	45-132	5	30
Chloroform	15 U	107	150	71	106	152	70	61-124	1	30
Chloromethane	15 U	122	150	82	118	152	78	50-136	5	30
cis-1,2-Dichloroethene	15 U	93.2	150	62	93.4	152	62	56-126	<1	30
cis-1,3-Dichloropropene	15 U	75.7	150	51	79.5	152	52	31-150	2	30
Cyclohexane	15 U	102	150	68	98.3	152	65	40-142	5	30
Dibromochloromethane	15 U	94.2	150	63	108	152	71	40-146	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls -Total Metals
Sample Matrix: Soil

Service Request: R1509359
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/3/15
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: CHIPS-1
Lab Code: R1509359-001
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike RQ1513639-05			Duplicate Matrix Spike RQ1513639-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dichlorodifluoromethane (CFC 12)	15 U	146	150	98	139	152	92	44-138	6	30
Dichloromethane	15 U	102	150	68	101	152	67	64-120	1	30
Ethylbenzene	270	438	150	114	437	152	112	44-131	2	30
Isopropylbenzene (Cumene)	15 U	99.0	150	66	105	152	69	36-148	4	30
m,p-Xylenes	550	871	299	108	960	303	136	45-141	23	30
Methyl Acetate	15 U	157	150	105	183	152	121	34-173	14	30
Methyl tert-Butyl Ether	15 U	137	150	92	139	152	92	62-130	<1	30
Methylcyclohexane	15 U	90.1	150	60	88.4	152	58	33-148	3	30
o-Xylene	220	418	150	132	433	152	141 *	46-139	7	30
Styrene	590	836	150	162 *	867	152	180 *	39-149	11	30
Tetrachloroethene (PCE)	15 U	95.1	150	64	103	152	68	45-141	6	30
Toluene	340	565	150	152 *	567	152	152 *	50-140	<1	30
trans-1,2-Dichloroethene	15 U	88.0	150	59	89.4	152	59	52-128	<1	30
trans-1,3-Dichloropropene	15 U	63.0	150	42	66.3	152	44	23-160	5	30
Trichloroethene (TCE)	15 U	88.5	150	59	88.8	152	59	54-136	<1	30
Trichlorofluoromethane (CFC 11)	15 U	109	150	73	107	152	70	47-129	4	30
Vinyl Chloride	15 U	107	150	72	106	152	70	53-128	3	30

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33200

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name GLBNS FALLS		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																														
Project Manager MARK SCHUMACHER		Report CC		PRESERVATIVE																																														
Company/Address 5788 WILLOWHILLS BLVD SYRACUSE NY 13214		Email MARK.SCHUMACHER@ANTHROGROW.COM		<table border="1"> <tr> <td>GC/MS VOAs • 8260 • 824 • CLP</td> <td>GC/MS SVOAs • 8270 • 825</td> <td>GC/MS • 8201 • 8202</td> <td>PESTICIDES • 8201 • 8202</td> <td>PH</td> <td>VOC 8260</td> <td>TOTAL METALS LIST</td> <td>METALS, DISSOLVED (List in comments below)</td> <td>HEX CHROMIUM</td> <td>TOTAL CHROMIUM</td> <td>TOTAL METALS</td> <td>6010 + 7470</td> <td>CORROSIVITY</td> <td>IGNITABILITY</td> <td>FLAMMABILITY</td> <td>REACTIVITY</td> <td>PAINT FILTER 9091</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>												GC/MS VOAs • 8260 • 824 • CLP	GC/MS SVOAs • 8270 • 825	GC/MS • 8201 • 8202	PESTICIDES • 8201 • 8202	PH	VOC 8260	TOTAL METALS LIST	METALS, DISSOLVED (List in comments below)	HEX CHROMIUM	TOTAL CHROMIUM	TOTAL METALS	6010 + 7470	CORROSIVITY	IGNITABILITY	FLAMMABILITY	REACTIVITY	PAINT FILTER 9091	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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SPECIAL INSTRUCTIONS/COMMENTS <p>TAL LIST (EPA 6010 + 7470A)</p> <p>VOC TELP + SVOC TELP FULL LIST</p> <p>STANDARD DATA PACKAGE</p>																																																		
<p>See OAPP <input type="checkbox"/></p> <p>STATE WHERE SAMPLES WERE COLLECTED NY</p> <p>RELINQUISHED BY NY</p> <p>RECEIVED BY</p>																																																		
<p>TURNAROUND REQUIREMENTS</p> <p><input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY)</p> <p>1 day <input type="checkbox"/> 2 day <input checked="" type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day <input type="checkbox"/></p> <p>REPORT REQUIREMENTS</p> <p><input checked="" type="checkbox"/> I. Results Only</p> <p><input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required)</p> <p><input type="checkbox"/> III. Results + QC and Calibration Summaries</p> <p><input type="checkbox"/> IV. Data Validation Report with Raw Data</p>																																																		
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R1509359

5

Antec USA Inc
Queensbury, NY



Cooler Receipt and Preservation Check Form

R1509359

5

Antea USA Inc.
Queensbury, NYProject/Client Antea Folder Number _____Cooler received on 10/31/15 by: @COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	<u>Bulk</u> Encore 5035set NA

8. Temperature Readings Date: 10/31/15 Time: 110P ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.8</u>						
Correction Factor (°C)	<u>10.5</u>						
Corrected Temp (°C)	<u>2.3°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rule _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by @ on 10/31/15 at 1110
 5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: AWCooler Breakdown: Date: 10/31/15 Time: 1135 by: @

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES

NO

2. Did all bottle labels and tags agree with custody papers?

YES

NO

3. Were correct containers used for the tests indicated?

YES

NO

4. Air Samples: Cassettes / Tubes Intact

Canisters Pressurized

Tedlar® Bags Inflated

N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: R06261436

Other Comments: _____

PC Secondary Review: AW

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 13, 2015

Service Request No:R1509358

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory October 31, 2015
For your reference, these analyses have been assigned our service request number **R1509358**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

ALS Environmental

Client: Antea
Service Request No.: R1509358
Project: Glens Falls
Date Received: 10/31/15
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Water samples were received for analysis at ALS Environmental in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Site QC was not requested however performed on CHIPS-1. Accuracy and precision were acceptable with the exception of Hexavalent Chromium. The sample was re-extracted and reanalyzed and the low bias was confirmed. Outlying MS recoveries have been flagged with an “*”. Matrix spike recoveries for Cyanide and Phenolics have been flagged with a “#” to identify the spike results as invalid. The results should not be used to assess accuracy due to the sample concentration being greater than 4-times the spike concentration and deemed as not valid.

LCS/LCSD accuracy and precision were acceptable with the exception of LCSD recovery for Pyridine by Method 1311/8270D. The outlying recovery has been flagged with an “*”.

All remaining QC criteria were met.

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization

Service Request: R1509358

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509358-001	TRIP BLANK	10/30/2015	
R1509358-002	CHIPS-1	10/30/2015	1200

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Sample Name: TRIP BLANK
Lab Code: R1509358-001

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15 10:55

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	11/02/15 15:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/02/15 15:23	
1,1,2-Trichloroethane	5.0 U	5.0	1	11/02/15 15:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	11/02/15 15:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	11/02/15 15:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/02/15 15:23	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	11/02/15 15:23	
1,2-Dibromoethane	5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichloroethane	5.0 U	5.0	1	11/02/15 15:23	
1,2-Dichloropropane	5.0 U	5.0	1	11/02/15 15:23	
1,3-Dichlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
1,4-Dichlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
1,4-Dioxane	100 U	100	1	11/02/15 15:23	
2-Butanone (MEK)	10 U	10	1	11/02/15 15:23	
2-Hexanone	10 U	10	1	11/02/15 15:23	
4-Methyl-2-pentanone	10 U	10	1	11/02/15 15:23	
Acetone	10 U	10	1	11/02/15 15:23	
Benzene	5.0 U	5.0	1	11/02/15 15:23	
Bromochloromethane	5.0 U	5.0	1	11/02/15 15:23	
Bromodichloromethane	5.0 U	5.0	1	11/02/15 15:23	
Bromoform	5.0 U	5.0	1	11/02/15 15:23	
Bromomethane	5.0 U	5.0	1	11/02/15 15:23	
Carbon Disulfide	10 U	10	1	11/02/15 15:23	
Carbon Tetrachloride	5.0 U	5.0	1	11/02/15 15:23	
Chlorobenzene	5.0 U	5.0	1	11/02/15 15:23	
Chloroethane	5.0 U	5.0	1	11/02/15 15:23	
Chloroform	5.0 U	5.0	1	11/02/15 15:23	
Chloromethane	5.0 U	5.0	1	11/02/15 15:23	
Cyclohexane	10 U	10	1	11/02/15 15:23	
Dibromochloromethane	5.0 U	5.0	1	11/02/15 15:23	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	11/02/15 15:23	
Dichloromethane	5.0 U	5.0	1	11/02/15 15:23	
Ethylbenzene	5.0 U	5.0	1	11/02/15 15:23	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	11/02/15 15:23	
Methyl Acetate	10 U	10	1	11/02/15 15:23	
Methyl tert-Butyl Ether	5.0 U	5.0	1	11/02/15 15:23	
Methylcyclohexane	10 U	10	1	11/02/15 15:23	
Styrene	5.0 U	5.0	1	11/02/15 15:23	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/02/15 15:23	
Toluene	5.0 U	5.0	1	11/02/15 15:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Sample Name: TRIP BLANK
Lab Code: R1509358-001

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15 10:55

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/02/15 15:23	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/02/15 15:23	
Vinyl Chloride	5.0 U	5.0	1	11/02/15 15:23	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 15:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 15:23	
m,p-Xylenes	5.0 U	5.0	1	11/02/15 15:23	
o-Xylene	5.0 U	5.0	1	11/02/15 15:23	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 15:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 15:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	11/02/15 15:23	
Dibromofluoromethane	93	89 - 119	11/02/15 15:23	
Toluene-d8	93	87 - 121	11/02/15 15:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: CHIPS-1
Lab Code: R1509358-002

Service Request: R1509358
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55
Basis: Dry

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	5.0 U	mg/Kg	5.0	1	11/04/15 14:10	11/04/15	
Cyanide, Reactive	9014	25 U	mg/Kg	25	1	11/02/15 16:09	11/02/15	
Cyanide, Total	9012B	45.5	mg/Kg	1.2	10	11/02/15 16:14	11/02/15	
Phenolics, Total Recoverable	9066 Modified	12.2	mg/Kg	2.5	20	11/03/15 09:45	11/02/15	
Sulfide, Reactive	9034 Modified	120 U	mg/Kg	120	1	11/02/15 14:47	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: CHIPS-1
Lab Code: R1509358-002

Service Request: R1509358
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55
Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Flash Point	ASTM D92-05a	>100	deg C	-	1	11/04/15 08:00	NA	
Free Liquid	9095B	Absent	NONE	-	1	11/02/15 12:50	NA	
pH	9045D	7.14	pH Units	-	1	11/02/15 17:35	NA	H
Total Solids	ALS SOP	79.0	Percent	-	1	11/04/15 13:05	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: CHIPS-1
Lab Code: R1509358-002

Service Request: R1509358
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55
Basis: As Received

Toxicity Characteristics Leachate Procedure (TCLP)
Inorganic Parameters

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:24	11/03/15	
Barium	6010C	4.3	mg/L	1.0	1	11/04/15 09:24	11/03/15	
Cadmium	6010C	0.15	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Lead	6010C	0.49	mg/L	0.10	1	11/04/15 09:24	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 13:01	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:24	11/03/15	
Silver	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:24	11/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: ug/L
Basis: As Received

TCLP Volatile Organics by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Pre-Prep Method: EPA 1311
Pre-Prep Date: 11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	50 U	50	10	11/10/15 01:11	
1,2-Dichloroethane	50 U	50	10	11/10/15 01:11	
2-Butanone (MEK)	230	100	10	11/10/15 01:11	
Benzene	50 U	50	10	11/10/15 01:11	
Carbon Tetrachloride	50 U	50	10	11/10/15 01:11	
Chlorobenzene	50 U	50	10	11/10/15 01:11	
Chloroform	50 U	50	10	11/10/15 01:11	
Tetrachloroethene (PCE)	50 U	50	10	11/10/15 01:11	
Trichloroethene (TCE)	50 U	50	10	11/10/15 01:11	
Vinyl Chloride	50 U	50	10	11/10/15 01:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	11/10/15 01:11	
Dibromofluoromethane	102	89 - 119	11/10/15 01:11	
Toluene-d8	105	87 - 121	11/10/15 01:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15 12:00
Date Received: 10/31/15 10:55

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Pre-Prep Method: EPA 1311
Pre-Prep Date: 11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 09:37	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 09:37	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 09:37	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 09:37	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 09:37	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 09:37	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 09:37	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 09:37	11/4/15	
Pyridine	500 U	500	1	11/05/15 09:37	11/4/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	28 - 157	11/05/15 09:37	
2-Fluorobiphenyl	82	39 - 119	11/05/15 09:37	
2-Fluorophenol	42	10 - 105	11/05/15 09:37	
Nitrobenzene-d5	77	37 - 117	11/05/15 09:37	
Phenol-d6	29	10 - 107	11/05/15 09:37	
p-Terphenyl-d14	96	40 - 133	11/05/15 09:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1509358-MB1

Service Request: R1509358
Date Collected: NA
Date Received: NA
Basis: Dry

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	11/04/15 14:10	11/04/15	
Cyanide, Reactive	9014	20 U	mg/Kg	20	1	11/02/15 16:07	11/02/15	
Cyanide, Total	9012B	0.10 U	mg/Kg	0.10	1	11/02/15 15:59	11/02/15	
Phenolics, Total Recoverable	9066 Modified	0.10 U	mg/Kg	0.10	1	11/03/15 09:45	11/02/15	
Sulfide, Reactive	9034 Modified	100 U	mg/Kg	100	1	11/02/15 14:47	11/02/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1509358-MB1

Service Request: R1509358
Date Collected: NA
Date Received: NA
Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Free Liquid	9095B	Absent	NONE	-	1	11/02/15 12:50	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1509358-MB2

Service Request: R1509358
Date Collected: NA
Date Received: NA
Basis: Dry

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Chromium, Hexavalent	7196A	4.0 U	mg/Kg	4.0	1	11/04/15 14:10	11/04/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1509358-MB1

Service Request: R1509358
Date Collected: NA
Date Received: NA

Basis: As Received

Toxicity Characteristics Leachate Procedure (TCLP)
Inorganic Parameters

Pre-Prep Method: EPA 1311

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:12	11/03/15	
Barium	6010C	1.0 U	mg/L	1.0	1	11/04/15 09:12	11/03/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Lead	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 12:58	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 09:12	11/03/15	
Silver	6010C	0.10 U	mg/L	0.10	1	11/04/15 09:12	11/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1509358-MB2

Service Request: R1509358
Date Collected: NA
Date Received: NA

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	0.50 U	mg/L	0.50	1	11/04/15 08:55	11/03/15	
Barium	6010C	1.0 U	mg/L	1.0	1	11/04/15 08:55	11/03/15	
Cadmium	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Chromium	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Lead	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	
Mercury	7470A	0.00030 U	mg/L	0.00030	1	11/04/15 12:53	11/04/15	
Selenium	6010C	0.50 U	mg/L	0.50	1	11/04/15 08:55	11/03/15	
Silver	6010C	0.10 U	mg/L	0.10	1	11/04/15 08:55	11/03/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ1513614-04

Service Request: R1509358
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	11/02/15 09:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	11/02/15 09:30	
1,1,2-Trichloroethane	5.0 U	5.0	1	11/02/15 09:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	11/02/15 09:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	11/02/15 09:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/02/15 09:30	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	11/02/15 09:30	
1,2-Dibromoethane	5.0 U	5.0	1	11/02/15 09:30	
1,2-Dichlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
1,2-Dichloroethane	5.0 U	5.0	1	11/02/15 09:30	
1,2-Dichloropropane	5.0 U	5.0	1	11/02/15 09:30	
1,3-Dichlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
1,4-Dichlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
1,4-Dioxane	100 U	100	1	11/02/15 09:30	
2-Butanone (MEK)	10 U	10	1	11/02/15 09:30	
2-Hexanone	10 U	10	1	11/02/15 09:30	
4-Methyl-2-pentanone	10 U	10	1	11/02/15 09:30	
Acetone	10 U	10	1	11/02/15 09:30	
Benzene	5.0 U	5.0	1	11/02/15 09:30	
Bromochloromethane	5.0 U	5.0	1	11/02/15 09:30	
Bromodichloromethane	5.0 U	5.0	1	11/02/15 09:30	
Bromoform	5.0 U	5.0	1	11/02/15 09:30	
Bromomethane	5.0 U	5.0	1	11/02/15 09:30	
Carbon Disulfide	10 U	10	1	11/02/15 09:30	
Carbon Tetrachloride	5.0 U	5.0	1	11/02/15 09:30	
Chlorobenzene	5.0 U	5.0	1	11/02/15 09:30	
Chloroethane	5.0 U	5.0	1	11/02/15 09:30	
Chloroform	5.0 U	5.0	1	11/02/15 09:30	
Chloromethane	5.0 U	5.0	1	11/02/15 09:30	
Cyclohexane	10 U	10	1	11/02/15 09:30	
Dibromochloromethane	5.0 U	5.0	1	11/02/15 09:30	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	11/02/15 09:30	
Dichloromethane	5.0 U	5.0	1	11/02/15 09:30	
Ethylbenzene	5.0 U	5.0	1	11/02/15 09:30	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	11/02/15 09:30	
Methyl Acetate	10 U	10	1	11/02/15 09:30	
Methyl tert-Butyl Ether	5.0 U	5.0	1	11/02/15 09:30	
Methylcyclohexane	10 U	10	1	11/02/15 09:30	
Styrene	5.0 U	5.0	1	11/02/15 09:30	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/02/15 09:30	
Toluene	5.0 U	5.0	1	11/02/15 09:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ1513614-04

Service Request: R1509358
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	11/02/15 09:30	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	11/02/15 09:30	
Vinyl Chloride	5.0 U	5.0	1	11/02/15 09:30	
cis-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 09:30	
cis-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 09:30	
m,p-Xylenes	5.0 U	5.0	1	11/02/15 09:30	
o-Xylene	5.0 U	5.0	1	11/02/15 09:30	
trans-1,2-Dichloroethene	5.0 U	5.0	1	11/02/15 09:30	
trans-1,3-Dichloropropene	5.0 U	5.0	1	11/02/15 09:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	11/02/15 09:30	
Dibromofluoromethane	94	89 - 119	11/02/15 09:30	
Toluene-d8	94	87 - 121	11/02/15 09:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513875-01

Units: ug/L
Basis: As Received

TCLP Volatile Organics by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	11/10/15 00:22	
1,2-Dichloroethane	5.0 U	5.0	1	11/10/15 00:22	
2-Butanone (MEK)	10 U	10	1	11/10/15 00:22	
Benzene	5.0 U	5.0	1	11/10/15 00:22	
Carbon Tetrachloride	5.0 U	5.0	1	11/10/15 00:22	
Chlorobenzene	5.0 U	5.0	1	11/10/15 00:22	
Chloroform	5.0 U	5.0	1	11/10/15 00:22	
Tetrachloroethene (PCE)	5.0 U	5.0	1	11/10/15 00:22	
Trichloroethene (TCE)	5.0 U	5.0	1	11/10/15 00:22	
Vinyl Chloride	5.0 U	5.0	1	11/10/15 00:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	11/10/15 00:22	
Dibromofluoromethane	104	89 - 119	11/10/15 00:22	
Toluene-d8	107	87 - 121	11/10/15 00:22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513481-01

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Pre-Prep Method: EPA 1311
Pre-Prep Date: 11/2/15

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 10:29	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 10:29	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 10:29	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 10:29	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 10:29	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 10:29	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 10:29	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 10:29	11/4/15	
Pyridine	500 U	500	1	11/05/15 10:29	11/4/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	88	28 - 157	11/05/15 10:29	
2-Fluorobiphenyl	83	39 - 119	11/05/15 10:29	
2-Fluorophenol	46	10 - 105	11/05/15 10:29	
Nitrobenzene-d5	81	37 - 117	11/05/15 10:29	
Phenol-d6	32	10 - 107	11/05/15 10:29	
p-Terphenyl-d14	96	40 - 133	11/05/15 10:29	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1513505-01

Units: ug/L
Basis: As Received

TCLP Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dichlorobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
2,4,5-Trichlorophenol	100 U	100	1	11/05/15 08:16	11/4/15	
2,4,6-Trichlorophenol	100 U	100	1	11/05/15 08:16	11/4/15	
2,4-Dinitrotoluene	100 U	100	1	11/05/15 08:16	11/4/15	
2-Methylphenol	100 U	100	1	11/05/15 08:16	11/4/15	
3- and 4-Methylphenol Coelution	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachlorobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachlorobutadiene	100 U	100	1	11/05/15 08:16	11/4/15	
Hexachloroethane	100 U	100	1	11/05/15 08:16	11/4/15	
Nitrobenzene	100 U	100	1	11/05/15 08:16	11/4/15	
Pentachlorophenol (PCP)	500 U	500	1	11/05/15 08:16	11/4/15	
Pyridine	500 U	500	1	11/05/15 08:16	11/4/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	28 - 157	11/05/15 08:16	
2-Fluorobiphenyl	81	39 - 119	11/05/15 08:16	
2-Fluorophenol	46	10 - 105	11/05/15 08:16	
Nitrobenzene-d5	81	37 - 117	11/05/15 08:16	
Phenol-d6	32	10 - 107	11/05/15 08:16	
p-Terphenyl-d14	91	40 - 133	11/05/15 08:16	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/02/15 - 11/04/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1509358-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	605	669	90	80-120
Cyanide, Reactive	9014	4.69	209	2	1-100
Cyanide, Total	9012B	0.955	1.00	96	85-115
Phenolics, Total Recoverable	9066 Modified	0.729	0.80	91	59-128
Sulfide, Reactive	9034 Modified	103	110	92	21-118

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/02/15 - 11/04/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R1509358-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	640	643	100	80-120
Cyanide, Total	9012B	3.67	4.00	92	85-115

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/02/15 - 11/04/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: mg/Kg
Basis: Dry

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1509358- 002DUP1 Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	4.9	4.9 U	4.9 U	NC	NC	20
Cyanide, Reactive	9014	25	25 U	25 U	NC	NC	30
Cyanide, Total	9012B	1.2	45.5	36.0	40.7	23	30
Phenolics, Total Recoverable	9066 Modified	2.5	12.2	11.7	12.0	4	30
Sulfide, Reactive	9034 Modified	130	130 U	130 U	NC	NC	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358**Date Collected:** 10/30/15**Date Received:** 10/31/15**Date Analyzed:** 11/04/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: deg C**Basis:** As Received

				Duplicate Sample R1509358- 002DUP1			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Flash Point	ASTM D92-05a	-	>100	>100	NC	NC	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358**Date Collected:** 10/30/15**Date Received:** 10/31/15**Date Analyzed:** 11/02/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: pH Units**Basis:** As Received

				Duplicate Sample R1509358- 002DUP1			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
pH	9045D	-	7.14	7.18	7.16	<1	0.10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358**Date Collected:** 10/30/15**Date Received:** 10/31/15**Date Analyzed:** 11/04/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: mg/Kg**Basis:** Dry

				Duplicate Sample R1509358- 002DUP2			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Chromium, Hexavalent	7196A	5.0	5.0 U	5.0 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/02/15 - 11/04/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: mg/Kg
Basis: Dry

Matrix Spike
R1509358-002MS1

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	4.9	20.8	48.9	42 *	75-125
Cyanide, Reactive	9014	25	11	263	4	1-100
Cyanide, Total	9012B	45.5	26.9	1.1	-1672 #	10-159
Phenolics, Total Recoverable	9066 Modified	12.2	14.1	1	199 #	72-113
Sulfide, Reactive	9034 Modified	130	140	140	97	21-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/4/15
Date Extracted: 11/4/15

**Matrix Spike Summary
Chromium, Hexavalent**

Sample Name: CHIPS-1
Lab Code: R1509358-002
Analysis Method: 7196A
Prep Method: EPA 3060A

Units: mg/Kg
Basis: Dry

**Matrix Spike
R1509358-002MS2**

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	49 U	250	791	32 *	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/4/15
Date Extracted: 11/4/15

**Matrix Spike Summary
Chromium, Hexavalent**

Sample Name: CHIPS-1
Lab Code: R1509358-002
Analysis Method: 7196A
Prep Method: EPA 3060A

Units: mg/Kg
Basis: Dry

**Matrix Spike
R1509358-002MS3**

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	5.0 U	17.0	50.4	34 *	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Collected: 10/30/15
Date Received: 10/31/15
Date Analyzed: 11/4/15
Date Extracted: 11/4/15

**Matrix Spike Summary
Chromium, Hexavalent**

Sample Name: CHIPS-1
Lab Code: R1509358-002
Analysis Method: 7196A
Prep Method: EPA 3060A

Units: mg/Kg
Basis: Dry

**Matrix Spike
R1509358-002MS4**

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	49 U	262	802	33 *	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/04/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:As Received

Lab Control Sample
R1509358-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	4.53	5.0	91	80-120
Barium	6010C	5.17	5.0	103	80-120
Cadmium	6010C	0.923	1.00	92	80-120
Chromium	6010C	4.92	5.00	98	80-120
Lead	6010C	5.01	5.00	100	80-120
Selenium	6010C	0.858	1.00	86	80-120
Silver	6010C	4.97	5.00	99	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/04/15

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L

Basis:As Received

			Lab Control Sample			Duplicate Lab Control Sample				
			R1509358-LCS2			R1509358-DLCS2				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	7470A	0.000977	0.00100	98	0.000935	0.00100	94	80-120	4	20

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358**Date Collected:** 10/30/15**Date Received:** 10/31/15**Date Analyzed:** 11/04/15**Replicate Sample Summary****Inorganic Parameters**

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units: mg/L**Basis:** As Received

Duplicate Sample R1509358- 002DUP							
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Arsenic	6010C	0.50	0.50 U	0.50 U	NC	NC	20
Barium	6010C	1.0	4.3	4.2	4.24	3	20
Cadmium	6010C	0.10	0.15	0.15	0.148	2	20
Chromium	6010C	0.10	0.10 U	0.10 U	NC	NC	20
Lead	6010C	0.10	0.49	0.48	0.487	2	20
Selenium	6010C	0.50	0.50 U	0.50 U	NC	NC	20
Silver	6010C	0.10	0.10 U	0.10 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request:R1509358
Date Collected:10/30/15
Date Received:10/31/15
Date Analyzed:11/4/15

Matrix Spike Summary
Inorganic Parameters

Sample Name: CHIPS-1
Lab Code: R1509358-002

Units:mg/L
Basis:As Received

Matrix Spike
R1509358-002MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	3.0	5.2	5.0	105	75-125
Barium	6010C	4.3	9.2	5.0	98	75-125
Cadmium	6010C	0.15	1.14	1.00	99	75-125
Chromium	6010C	0.10	5.01	5.00	100	75-125
Lead	6010C	0.49	5.30	5.00	96	75-125
Selenium	6010C	0.50	1.07	1.00	107	75-125
Silver	6010C	0.60	5.25	5.00	105	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Service Request: R1509358
Date Analyzed: 11/02/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1513614-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.8	20.0	89	74-120
1,1,2,2-Tetrachloroethane	8260C	17.7	20.0	88	78-122
1,1,2-Trichloroethane	8260C	16.5	20.0	82	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.4	20.0	92	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.3	20.0	96	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	20.0	20.0	100	74-135
1,2,3-Trichlorobenzene	8260C	20.7	20.0	103	56-164
1,2,4-Trichlorobenzene	8260C	20.3	20.0	101	68-147
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.1	20.0	85	55-149
1,2-Dibromoethane	8260C	17.2	20.0	86	81-125
1,2-Dichlorobenzene	8260C	18.4	20.0	92	80-119
1,2-Dichloroethane	8260C	17.7	20.0	89	71-127
1,2-Dichloropropane	8260C	18.3	20.0	92	80-119
1,3-Dichlorobenzene	8260C	18.7	20.0	93	79-121
1,4-Dichlorobenzene	8260C	18.0	20.0	90	79-119
1,4-Dioxane	8260C	364	400	91	69-151
2-Butanone (MEK)	8260C	19.7	20.0	99	61-137
2-Hexanone	8260C	18.5	20.0	93	63-124
4-Methyl-2-pentanone	8260C	15.3	20.0	76	66-124
Acetone	8260C	22.7	20.0	114	40-161
Benzene	8260C	18.5	20.0	92	76-118
Bromochloromethane	8260C	17.9	20.0	90	81-126
Bromodichloromethane	8260C	16.8	20.0	84	78-126
Bromoform	8260C	17.3	20.0	87	71-136
Bromomethane	8260C	23.8	20.0	119	42-166
Carbon Disulfide	8260C	19.6	20.0	98	65-127
Carbon Tetrachloride	8260C	18.9	20.0	94	68-125
Chlorobenzene	8260C	17.6	20.0	88	80-121
Chloroethane	8260C	19.8	20.0	99	70-127
Chloroform	8260C	18.5	20.0	93	76-120
Chloromethane	8260C	24.6	20.0	123	69-145
Cyclohexane	8260C	19.0	20.0	95	63-121
Dibromochloromethane	8260C	16.5	20.0	82	77-128

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Water

Service Request: R1509358
Date Analyzed: 11/02/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1513614-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	28.3	20.0	142	65-152
Dichloromethane	8260C	19.5	20.0	97	73-122
Ethylbenzene	8260C	18.7	20.0	93	76-120
Isopropylbenzene (Cumene)	8260C	19.7	20.0	98	78-126
Methyl Acetate	8260C	18.2	20.0	91	62-131
Methyl tert-Butyl Ether	8260C	17.7	20.0	88	78-125
Methylcyclohexane	8260C	21.5	20.0	108	51-129
Styrene	8260C	19.6	20.0	98	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	78-124
Toluene	8260C	16.7	20.0	83	77-120
Trichloroethene (TCE)	8260C	18.2	20.0	91	78-123
Trichlorofluoromethane (CFC 11)	8260C	19.6	20.0	98	68-126
Vinyl Chloride	8260C	21.0	20.0	105	69-133
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	16.7	20.0	83	74-126
m,p-Xylenes	8260C	39.1	40.0	98	78-123
o-Xylene	8260C	18.9	20.0	95	80-120
trans-1,2-Dichloroethene	8260C	19.8	20.0	99	80-120
trans-1,3-Dichloropropene	8260C	16.1	20.0	80	67-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/09/15

Lab Control Sample Summary
TCLP Volatile Organics by GC/MS

Units:ug/L
Basis:As Received

Lab Control Sample
RQ1513875-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethene (1,1-DCE)	8260C	22.8	20.0	114	74-135
1,2-Dichloroethane	8260C	22.2	20.0	111	71-127
2-Butanone (MEK)	8260C	23.5	20.0	118	61-137
Benzene	8260C	21.3	20.0	106	76-118
Carbon Tetrachloride	8260C	17.9	20.0	90	68-125
Chlorobenzene	8260C	20.1	20.0	100	80-121
Chloroform	8260C	22.4	20.0	112	76-120
Tetrachloroethene (PCE)	8260C	18.6	20.0	93	78-124
Trichloroethene (TCE)	8260C	22.1	20.0	110	78-123
Vinyl Chloride	8260C	21.9	20.0	109	69-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls-Waste Characterization
Sample Matrix: Soil

Service Request: R1509358
Date Analyzed: 11/05/15

Duplicate Lab Control Sample Summary
TCLP Semivolatile Organic Compounds by GC/MS

Units:ug/L

Basis:As Received

Analyte Name	Lab Control Sample RQ1513505-02				Duplicate Lab Control Sample RQ1513505-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	8270D	608	1000	61	607	1000	61	10-124	<1	30
2,4,5-Trichlorophenol	8270D	977	1000	98	1020	1000	102	62-117	5	30
2,4,6-Trichlorophenol	8270D	950	1000	95	960	1000	96	62-115	1	30
2,4-Dinitrotoluene	8270D	986	1000	99	984	1000	98	69-122	<1	30
2-Methylphenol	8270D	792	1000	79	809	1000	81	59-104	2	30
3- and 4-Methylphenol Coelution	8270D	1460	2000	73	1490	2000	75	50-111	2	30
Hexachlorobenzene	8270D	985	1000	98	1010	1000	101	76-119	3	30
Hexachlorobutadiene	8270D	593	1000	59	598	1000	60	16-95	<1	30
Hexachloroethane	8270D	563	1000	56	547	1000	55	15-92	3	30
Nitrobenzene	8270D	885	1000	88	897	1000	90	51-113	1	30
Pentachlorophenol (PCP)	8270D	880	1000	88	936	1000	94	56-146	6	30
Pyridine	8270D	269	1000	27	500	1000	0 *	10-123	NC	30

[illegible]



Cooler Receipt and Preservation Check Form

Project/Client Anten Folder Number R1509358Cooler received on 10/31/15by: QCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y
6	Where did the bottles originate?	<u>ALS/ROC</u> C
7	Soil VOA received as:	<u>Bulk</u> Encore 5035set

8. Temperature Readings Date: 10/31/15 Time: 110P ID: IR#3 IR#5 From: Temp Blank S:

Observed Temp (°C)	<u>1.8</u>						
Correction Factor (°C)	<u>10.5</u>						
Corrected Temp (°C)	<u>2.3°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Rul

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by Q on 10/31/15 at 1110
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: JKCooler Breakdown: Date: 10/31/15 Time: 1142 by: Q

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NOT

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Ye. san
≥12	NaOH									
≤2	HNO ₃									No
≤2	H ₂ SO ₄									we
<4	NaHSO ₄									pre
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						Th. list
	Na ₂ S ₂ O ₃	-	-							PM.
	ZnAcetate	-	-							Ad
	HCl	**	**	<u>4114070</u>	<u>9/16</u>					

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 5-120-002, 111813-1B14
Other Comments: _____PC Secondary Review: JK

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



November 19, 2015

Service Request No:R1509911

Mr. Mark Schumacher
Antea USA Inc
5788 Widewaters Pkwy
Syracuse, NY 13214

Laboratory Results for: Queensbury, NY

Dear Mr.Schumacher,

Enclosed are the results of the sample(s) submitted to our laboratory November 16, 2015
For your reference, these analyses have been assigned our service request number **R1509911**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1509911

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509911-001	BOX-1	11/13/2015	1000
R1509911-002	BOX-2	11/13/2015	1030

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Soil

Sample Name: BOX-1
Lab Code: R1509911-001

Service Request: R1509911
Date Collected: 11/13/15 10:00
Date Received: 11/16/15 11:00

Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Free Liquid	9095B	Absent	NONE	-	1	11/17/15 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Soil
Sample Name: BOX-2
Lab Code: R1509911-002

Service Request: R1509911
Date Collected: 11/13/15 10:30
Date Received: 11/16/15 11:00
Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Free Liquid	9095B	Absent	NONE	-	1	11/17/15 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Glens Falls
Sample Matrix: Soil

Sample Name: Method Blank
Lab Code: R1509911-MB

Service Request: R1509911
Date Collected: NA
Date Received: NA

Basis: As Received

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Free Liquid	9095B	Absent	NONE	-	1	01/17/15 14:40	

7 of 8



Cooler Receipt and Preserva

R1509911

5

Antea USA Inc
Queensbury, NYProject/Client Antea Group Folder NumberCooler received on 11-14-15 by: HECOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Perchlorate samples have required headspace?	<u>Y</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>
7	Soil VOA received as: Bulk Encore 5035set	

8. Temperature Readings Date: 11-14-15 Time: 11:11 ID: IR#3 IR#5 From: Temp Blank

Observed Temp (°C)	<u>2.4</u>					
Correction Factor (°C)	<u>0</u>					
Corrected Temp (°C)	<u>2.4</u>					
Within 0-6°C?	<u>Y</u>	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Ru

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by HE on 11-14-15 at 11:15
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: fuCooler Breakdown: Date: 11/16/15 Time: 0905 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated N

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 01826

Other Comments:

PC Secondary Review: LR

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diame



January 04, 2016

Service Request No:R1511222

Christopher Meyer
Antea Group

Laboratory Results for: Queensbury, NY

Dear Christopher,

Enclosed are the results of the sample(s) submitted to our laboratory December 28, 2015
For your reference, these analyses have been assigned our service request number **R1511222**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1511222

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1511222-001	Box-1	12/28/2015	0908
R1511222-002	Box-2	12/28/2015	0917

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Group USA, Corp. dba ALS Environmental

Client: Antea USA Inc
Project: Queensbury, NY/Ashland Glens Falls

Service Request:R1511222

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Antea USA Inc
Project: Queensbury, NY/Ashland Glens Falls
Sample Matrix: Soil
Analysis Method: ALS SOP

Service Request: R1511222
Date Collected: 12/28/15
Date Received: 12/28/15
Units: Percent
Basis: As Received

Total Solids

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
Box-1	R1511222-001	76.8	-	1	12/29/15 18:33	
Box-2	R1511222-002	73.7	-	1	12/29/15 18:33	

Chris Meyer Company/Address Antea Group - 5788 Widenwater's Quay 2nd Floor Syracuse, NY 13214				PRESERVATIVE	
Phone # 914-495-9937 Email christoph.meyer@antearump.com Sample's Signature <i>Antea Group</i> Sample's Printed Name Antea Group		NUMBER OF CONTAINERS GC/MS VOAs • 8260 • 624 • CLP GC/MS SVOAs • 8270 • 625 GC VOAs • 8021 • 601/602 PESTICIDES • 8081 • 608 PCBs • 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) % Solids			
CLIENT SAMPLE ID Box-1 Box-2		FOR OFFICE USE ONLY LAB ID DATE SAMPLING 12/28/15 9:08 12/28/15 9:17		TIME MATRIX Solid Solid Solid	
SPECIAL INSTRUCTIONS/COMMENTS Metals					
STATE WHERE SAMPLES WERE COLLECTED - New York RELINQUISHED BY RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY RECEIVED BY					
TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> RUSH (SURCHARGES APPLY) 1 day _____ 2 day _____ 3 day _____ 4 day _____ 5 day _____ REQUESTED REPORT DATE 1/4/2016					
REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edita Yes _____ No _____ RELINQUISHED BY RECEIVED BY					
INVOICE INFORMATION PO # GENS FALLS BILL TO: Antea R1511222 5 Antea USA Inc. Queensbury, NY					
REMARKS/ ALTERNATE DESCRIPTION Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other _____					



Cooler Receipt and Preservation

R1511222

5

Antea USA Inc
Queensbury, NYProject/Client Leys Falls Folder Number Cooler received on 12/28/15 by: MDSCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input checked="" type="radio"/> Y
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input checked="" type="radio"/> Y
6	Where did the bottles originate?	ALS/ROC <input checked="" type="radio"/>
7	Soil VOA received as:	Bulk Encore 5035set

8. Temperature Readings Date: 12/28/15 Time: 1555 ID: IR#3 IR#3 From: Temp Blank S

Observed Temp (°C)	<u>4.9</u>					
Correction Factor (°C)	<u>-1.9</u>					
Corrected Temp (°C)	<u>7.9</u>					
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day Run _____

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R-002 by MDS on 12/28/15 at 1555
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: tuCooler Breakdown: Date: 12/28/15 Time: 1639 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated ☒

Explain any discrepancies: _____

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes
≥12	NaOH									sa
≤2	HNO ₃									Ne
≤2	H ₂ SO ₄									we
<4	NaHSO ₄									pr
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						Th
	Na ₂ S ₂ O ₃	-	-							lis
	ZnAcetate	-	-							PM
	HCl	**	**							Ac

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: C/504

Other Comments: _____

PC Secondary Review: Ar

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diamet



Appendix F

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 001 00750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3698							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD988080753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
Glen's Tons Waste 2500 Main Hwy. Rt 28 Glen's Tons Waste				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1001 TT		210	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information							
Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 00750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Bryan Robert of Antea Ciba-Geigy Inc. (Antea)				Bryan Robert of Antea Ciba-Geigy Inc. (Antea)		Month Day Year 11/27/15	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. <u>98750 002</u>		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3690							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD9880980753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
Greensboro S.W. 11800				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No.	Type		
a.							
Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				201	77	200	200
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information							
Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
						Date	
Printed/Typed Name				Signature		Month Day Year	
Boyd Bates of Antea Group on behalf of Antea				Boyd Bates of Antea Group on behalf of Antea		10 15 10	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
Rich Carter				[Signature]		10 15 10	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
						Date	
Printed/Typed Name				Signature		Month Day Year	

NON-HAZARDOUS WASTE

TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750 - 003		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Mercedes Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NY0830080753		A. State Transporter's ID 16/107			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address Glen's Tires WTP 2 Sherman Ave. West Glen's Tires, NY 12801				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				2011 T1		20	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Rep. Rites of Antea Group on behalf of Ashland						Date Month Day Year 27 15	
Signature By Rites of Antea Group on behalf of Ashland							
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name Karl S. S. S.						Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date Month Day Year	
Signature							

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. -004		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 519 433 3606							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc		NY1086000753		B. Transporter 1 Phone		519 255 0750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Gen's Paving NW 1 P 2 Shetland Ave Queensbury, NY 12804		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type			
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				011		63.300	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-0750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Don R. Rife of Antea Group Inc. Robert C. Ackland				Don R. Rife of Antea Group Inc. Robert C. Ackland		10/27/15	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750-005		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY-Hercules Site 89 Lower Warren Street Queensbury NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NY1088988753		A. State Transporter's ID 13704			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address V.N Gleno Falls Wastep 89 Lower 2 Schoon RD Warren St Gleno Falls NY 12801 pump house				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 77		23 3000	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
						Date	
Printed/Typed Name Bryan Riles of Antea Group on behalf of Ashland				Signature Bryan Riles of Antea Group on behalf of Ashland		Month Day Year 10 28 15	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
						Date	
Printed/Typed Name				Signature		Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 88750-006		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD988880753		A. State Transporter's ID 7A-710		B. Transporter 1 Phone 800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Glen Falls WWT P 89 Lower Warren St 2 Sherman RR Glen Falls NY 12804 Pump House		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				12. Containers No. Type		13. Total Quantity	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 TT		Est 3000	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above a. c. b. d.				H. Handling Codes for Wastes Listed Above a. c. b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 88750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Riley of Antea Group on behalf of Ashland						Date Month Day Year 10 38 15	
Signature Bryan Riley of Antea Group on behalf of Ashland							
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date Month Day Year	
Signature							

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750-007		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD080980753		A. State Transporter's ID PA-7157			
5. Transporter 1 Company Name OP-TECH Environmental Services, Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6760			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address via 6105THUS HWY 2 SHIMMER RD 6105THUS HWY 2 SHIMMER RD				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers No. Type		13. Total Quantity	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				100 10		300 300	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6760 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Rile of Antea Group on behalf of Ashland						Date Month Day Year 10 28 15	
Signature Bryan Rile of Antea Group on behalf of Ashland							
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name C. H. [Signature]						Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 00760		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518 433 3400							
4. Generator's Phone ()							
5. Transporter 1 Company Name OP-TECH Environmental Services Inc		6. US EPA ID Number NYD00600753		A. State Transporter's ID 26 107		B. Transporter 1 Phone 908 328 8760	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address WATSON WWP 256 Main Rd Queensbury, NY 12804 518 433 3400				10. US EPA ID Number		E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1 77		55- 211	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750-009		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY-Hercules Site 89 Lower Warren Street Queensbury, NY 12864 518.433.3696							
4. Generator's Phone ()		6. US EPA ID Number NYD988980753		A. State Transporter's ID 78-707			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name				C. State Transporter's ID			
9. Designated Facility Name and Site Address Glen Falls WWTP 85 Route 54 2 Skidmore Rd Glen Falls, NY 12864		10. US EPA ID Number		D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 T1		2000000	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
						Date	
Printed/Typed Name Bryan Riles of Ashland Group on behalf of Ashland				Signature Bryan Riles of Ashland Group on behalf of Ashland		Month Day Year 10 27 15	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
						Date	
Printed/Typed Name				Signature		Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 88750-010		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD088930753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
Greensboro DPM/WIP 119 2000 2 Sherman Rd Greensboro NC 27401				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				60 17		800 Gallons	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				B. C.			
b. d.				D. d.			
15. Special Handling Instructions and Additional Information							
Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 88750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Bryan R. ...				Bryan R. ...		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750-011		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Merck Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD9800089753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Gensco, Inc. 600 Z. Shuman P. 600 S. Fair St. NY 12841		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				100 15		250 311 50	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Responsible of Genco Group on behalf of Antea				Ryszard S. Antea Group on behalf of Antea		10 11 18	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 00700 1012		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518 433 3606							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc		NYD088080753		B. Transporter 1 Phone		800 225 6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address 6015 5th St 231 Union St Queensbury, NY 12804		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				401 77		88 811	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Roger R. R. of Antea Group on behalf of Antea				Roger R. R. of Antea Group on behalf of Antea		Month Day Year 09 15	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750-013	2. Page 1 of 1
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696					
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID 7A797	
OP-TECH Environmental Services Inc.		NYD086900753		B. Transporter 1 Phone 800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Great Falls with 2 Shuman Rd. Great Falls, NY 12804		10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)			44	TP	65 3000
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
a. c.				a. c.	
b. d.				b. d.	
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Exp. Rep. of Antea Group on behalf of Ashland				Signature Exp. Rep. of Antea Group on behalf of Ashland	
				Date Month Day Year 09 29 16	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Richard K...				Signature [Signature]	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 08750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Chickensbury, NY 13804 518 433 3606							
4. Generator's Phone ()		6. US EPA ID Number NYD000000753		A. State Transporter's ID 7A 702			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc		8. US EPA ID Number		B. Transporter 1 Phone 210 236 6750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address GWS 5 TONS ACWIP 2 541701A HP 1000 S. ... 1240				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				04 71		251 300	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 08750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
By: [Signature]				By: [Signature]		Month Day Year 10 30 15	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year 10 30 15	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 05750-417		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518 433 7698							
4. Generator's Phone ()							
5. Transporter 1 Company Name OP-TECH Environmental Services, Inc.				6. US EPA ID Number NYD056080753		A. State Transporter's ID 76 707	
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750	
9. Designated Facility Name and Site Address Greens Point Waste 2 Sherman St Queensbury, NY 12804				10. US EPA ID Number		C. State Transporter's ID	
						D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 71		200 3000	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 00750-010		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA GEIGYA-Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc		NYD080080753		B. Transporter 1 Phone		810-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID			
2 Skidmore Rd Queensbury, NY 12804				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type			
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 27		85 Gallons	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information							
Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 00750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature						Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 88750-019		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD088080753		A. State Transporter's ID 7A791			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-4750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address Giant Food Store #1 2 S. Main St. Queensbury, NY 12804				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				64 1		80 1	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-4750 OP-TECH Environmental Services, Inc. JOB NUMBER 88750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan R. K. of Antea Group on behalf of Ashland Kyrle of Antea Group on behalf of Ashland 11				Signature Date Month Day Year 11 1 2010			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Signature				Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Signature				Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature Date Month Day Year			

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98740 - C.2.0		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID		13. Total Quantity	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		NYD988920753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				12. Containers		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				No. Type			
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98740							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
By: [Signature]				By: [Signature]		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. <i>05754 02202</i>		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY-Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3686							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID		7A/797	
OP-TECH Environmental Services Inc.		NYD036080753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Glens Falls WWTP 2 Sherman Town Road Glens Falls, NY 12801 via Pump House		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 TT		Est. 3000 gal.	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 08750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name						Date	
Signature						Month Day Year	
<i>Byron Rely of Antea Group on behalf of Ashland</i>						<i>11 09 15</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name						Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date	
Signature						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750 022		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD988008753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Glens Falls WWTP 89 Lower Warren St. 2 Sherman Town Road via Pump House Glens Falls, NY 12801		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 TT		Est. 3000 gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Bryan Reles of Antea Group on behalf of Ashland				Bryan Reles of Antea Group on behalf of Ashland		11/09/2015	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.							
Printed/Typed Name				Signature		Date	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 08750 023	2. Page 1 of 1
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696					
4. Generator's Phone ()		6. US EPA ID Number NYD988980753		A. State Transporter's ID 1A707	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Glens Falls WWTP 2 Sherman Town Road via Pump House Glens Falls, NY 12801				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION			12. Containers No. Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)			001 TT	Est. 3000	gal
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
a. c.			a. c.		
b. d.			b. d.		
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 08750					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Byron Relys of Antea Group on behalf of Ashland				Date Month Day Year 11 09 2015	
Signature By Relys of Antea Group on behalf of Ashland					
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Date Month Day Year	
Signature					
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Date Month Day Year	
Signature					
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Date Month Day Year	
Signature					

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750 024		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury NY 12804 518-433-3686							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
OP-TECH Environmental Services Inc.		NYD988980753		B. Transporter 1 Phone		800-225-6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Glen Falls WWTP 2 Sherrington Town Road Glen Falls NY 12801		10. US EPA ID Number 89 Lower Warren St. via Pump House		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 TT		Est. 3000 gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				B. C.			
b. d.				D. d.			
15. Special Handling Instructions and Additional Information Emergency Response #800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Bryan Rely of Antea Group on behalf of Antea				Bryan Rely of Antea Group on behalf of Antea		Month Day Year 11 2008	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750 025		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIDA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number OP-TECH Environmental Services Inc. NYD986930763		A. State Transporter's ID 174700			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman TOWN Rd. 89 Lower Warren St Glens Falls NY 12801 Pump House		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				001 TT		Est. 3000 gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Riley of Antea Group on behalf of Ashland				Signature Bryan Riley of Antea Group on behalf of Ashland		Date Month Day Year 11 10 2015	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 03750 026		2. Page 1 of 1		
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Merculan Site 89 Lower Warren Street Queensbury, NY 12804 518.433.2696								
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID				
OP-TECH Environmental Services Inc.		NYD088080753		B. Transporter 1 Phone		800.225.4750		
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID				
				D. Transporter 2 Phone				
9. Designated Facility Name and Site Address Glens Falls WWTTP VIA 2 Sherman Rd., 89 Lower Warren St Glens Falls NY 12801 Pump House		10. US EPA ID Number		E. State Facility's ID				
				F. Facility's Phone				
11. WASTE DESCRIPTION			Containers No. Type		13. Total Quantity		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)			001 TT		2000		gal	
b.								
c.								
d.								
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above				
a. c.				a. c.				
b. d.				b. d.				
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-4750 OP-TECH Environmental Services, Inc. JOB NUMBER 03750								
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.								
Printed/Typed Name				Signature		Date		
Bryan Pels of Antea Group on behalf of Ashland				Bryan Pels of Antea Group on behalf of Ashland		11 10 2015		
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date		
Printed/Typed Name				Signature		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date		
Printed/Typed Name				Signature		Month Day Year		
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.								
Printed/Typed Name				Signature		Date		
						Month Day Year		

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750	2. Page 1 of 1
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696					
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID 78-787	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION				Containers	
				No.	Type
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1	TT
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
a.				a.	
b.				b.	
c.				c.	
d.				d.	
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
				Date	
Printed/Typed Name Bryan Reis of Antea Group on behalf of Ashland				Signature Bryan Reis of Antea Group on behalf of Ashland	
				Month Day Year 11 20 2015	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
				Date	
Printed/Typed Name				Signature	
				Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12904 518 433 3608							
4. Generator's Phone ()							
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		6. US EPA ID Number NYD908090753		A. State Transporter's ID 7A 247		B. Transporter 1 Phone 800 225 6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls, NY 12901 Pump House		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1		TT ~ 3000 gal. gal.	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Bryan Riles of Antea Group on behalf of Ashland				Bryan Riles of Antea Group on behalf of Ashland		11 20 2015	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Jeff D. Schoeter				[Signature]		11 20 15	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Date			
Printed/Typed Name				Signature		Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518 433 3696							
4. Generator's Phone ()							
5. Transporter 1 Company Name OP-TECH Environmental Services Inc		6. US EPA ID Number NYD028090751		A. State Transporter's ID 7A 797		B. Transporter 1 Phone 800 225 6750	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1 11		~ 3000 gal. gal.	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Reles of Antea Group on behalf of Ashland				Signature Bryan Reles of Antea Group on behalf of Ashland			
				Date Month Day Year 11 23 2015			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Jeff D. Schaefer				Signature Jeff D. Schaefer			
				Date Month Day Year 11 23 15			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature			
				Date Month Day Year			

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD030980753		A. State Transporter's ID PA702			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address Glens Falls WWTIP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1 77		~ 3000 gal.	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Roles of Antea Group on behalf of Ashland						Date Month Day Year 11 24 2015	
Signature <i>Bryan Roles of Antea Group on behalf of Ashland</i>							
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name						Date Month Day Year	
Signature							
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name						Date Month Day Year	
Signature							
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name						Date Month Day Year	
Signature							

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750	2. Page 1 of 1
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Silo 89 Lower Warren Street Queensbury, NY 12804 518-433-3696					
4. Generator's Phone ()		6. US EPA ID Number NYD988060753		A. State Transporter's ID 17-111	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Glens Falls WWTIP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone	
11. WASTE DESCRIPTION		Containers		13. Total Quantity	14. Unit Wt./Vol.
		No.	Type		
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)		1	TT	~ 3000	gal.
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above			
a. c.		a. c.			
b. d.		b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name		Signature		Date	
Bryan Riley of Antea Group on behalf of Ashland		Bryan Riley of Antea Group on behalf of Ashland		11/24/2015	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE	NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
	3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
	4. Generator's Phone ()		6. US EPA ID Number NYD086080753		A. State Transporter's ID 7A101			
	5. Transporter 1 Company Name OP-TECH Environmental Services Inc.				B. Transporter 1 Phone 800-225-6750			
	7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
	9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
	11. WASTE DESCRIPTION				Containers		13. Total Quantity	
					No. Type		14. Unit Wt./Vol.	
	a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1		TT ~ 3000 gal.	
	b.							
c.								
d.								
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above				
a. c.				a. c.				
b. d.				b. d.				
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750								
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.								
							Date	
Printed/Typed Name <i>Bryan Rile of Antea Group on behalf of Ashland</i>				Signature <i>Bryan Rile of Antea Group on behalf of Ashland</i>		Month 11 Day 21 Year 2015		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
	Printed/Typed Name				Signature		Month Day Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
	Printed/Typed Name				Signature		Month Day Year	
FACILITY	19. Discrepancy Indication Space							
	20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
								Date
Printed/Typed Name				Signature		Month Day Year		

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD986980753		A. State Transporter's ID 7A707		B. Transporter 1 Phone 800-225-6750	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Facility's ID			
9. Designated Facility Name and Site Address Glens Falls WWT/VIA 2 Sherman RD 80 Lower Warren St Glens Falls NY 12801 Pump House				F. Facility's Phone			
11. WASTE DESCRIPTION				12. Containers No. Type		13. Total Quantity	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)						37(1)	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
Brian R. Kelly of Antea Group on behalf of Antea				Brian R. Kelly of Antea Group on behalf of Antea		12/1/15	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		12/1/15	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY-Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD888080753		A. State Transporter's ID TN 101			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1		gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a			
b.				b			
15. Special Handling Instructions and Additional Information							
Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Brown Robt of Antea Group on behalf of Ashland				Signature Brown Robt of Antea Group on behalf of Ashland			
				Date Month Day Year 1 01 2016			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature			
				Date Month Day Year			

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 88750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Merckulos Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD980980753		A. State Transporter's ID 2A707		B. Transporter 1 Phone 800-225-6750	
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY12801 Pump House							
11. WASTE DESCRIPTION				Containers No. Type		13. Total Quantity	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1		3000 gal.	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c. =				a. c.			
b. d. s				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 88750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bryan Riley of Antea Group on behalf of Antland				Signature Bryan Riley of Antea Group on behalf of Antland		Date Month Day Year 04 2016	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 08750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3696							
4. Generator's Phone ()		6. US EPA ID Number NYD088080753		A. State Transporter's ID 75707			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.				B. Transporter 1 Phone 800-225-6750			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House		10. US EPA ID Number		E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers No. Type		13. Total Quantity	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1 77 2		3000 gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 08750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name By: Riba of Antea Group on behalf of Ashland				Signature By: Riba of Antea Group on behalf of Ashland		Date Month Day Year 1 10 2016	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury, NY 12804 518-433-3006							
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID			
5. Transporter 1 Company Name OP-TECH Environmental Services Inc.		8. US EPA ID Number		B. Transporter 1 Phone		200-756-6750	
7. Transporter 2 Company Name		10. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address Glens Falls WWTTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12801 Pump House				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. Non RCRA Nat DOT Regulated Liquid (Tank T110 Water)				1 71		300	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-4730 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
David P. De... of Antea Group on behalf of Antea Inc.				David P. De... of Antea Group on behalf of Antea Inc.		Month Day Year 12 18 2016	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year 12 18 16	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 98750		2. Page 1 of 1	
		3. Generator's Name and Mailing Address ANTEA CIBA-GEIGY/Hercules Site 89 Lower Warren Street Queensbury NY 12804-5184 518-431-3696					
4. Generator's Phone ()		6. US EPA ID Number NYD080080753		A. State Transporter's ID TA-100		B. Transporter 1 Phone 800-225-6750	
5. Transporter 1 Company Name OP-TECH Environmental Services, Inc.		7. Transporter 2 Company Name		C. State Transporter's ID		D. Transporter 2 Phone	
8. US EPA ID Number		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
9. Designated Facility Name and Site Address Glens Falls WWTP VIA 2 Sherman RD 89 Lower Warren St Glens Falls NY 12803 Pump House							
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit WL/Vol.	
a. Non RCRA Not DOT Regulated Liquid (Tank T110 Water)				1 11		4502	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. c.				a. c.			
b. d.				b. d.			
15. Special Handling Instructions and Additional Information Emergency Response # 800-225-6750 OP-TECH Environmental Services, Inc. JOB NUMBER 98750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name ↑				Signature		Date Month Day Year 3 11 00	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year 3 27 00	
Printed/Typed Name JOEL SCHAEFER				Signature		Date Month Day Year 3 27 00	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year	
Printed/Typed Name				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of 1		3. Emergency Response Phone		4. Waste Tracking Number			
5. Generator's Name and Mailing Address HERCULES INC. & CIBA CORP c/o ANTEA GROUP 500 SUMMIT LAKE DR. STE 150 altm Chris Meyer VALHALLA NY 10585 (914) 485-8837		Generator's Site Address (if different than mailing address) HERCULES INC. & CIBA CORP 89 LOWER WARREN ST. QUEENSBURY NY 12804									
6. Transporter 1 Company Name J. J. ... Inc.		U.S. EPA ID Number									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address WWM of NEW YORK at HIGH ACRES LANDFILL 425 PERINTON PARKWAY FAIRPORT NY 14450 (585) 223-6132		U.S. EPA ID Number N A									
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. NON DOT REGULATED MATERIAL 115958NY				10. Containers No. Type 601 CM		11. Total Quantity 101		12. Unit WT/Vol.	
13. Special Handling Instructions and Additional Information 1. 115958NY - ENVIRONMENTAL DERIVED WASTE WEIGHT IS ESTIMATED											
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.		Generator's/Officer's Printed/Typed Name Brown Reel of Antea Group on behalf of Antea Inc.									
		Signature [Signature]									
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:									
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name [Signature]		Signature [Signature]									
		Month Day Year 2 10 2016									
17. Discrepancy 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection		Manifest Reference Number:									
17b. Alternate Facility (or Generator) Facility's Phone:		U.S. EPA ID Number									
17c. Signature of Alternate Facility (or Generator)		Month Day Year									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name		Signature									
		Month Day Year									

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number <div style="text-align: right;">1-103</div>		2. Page 1 of 2		3. Emergency Response Phone		4. Waste Tracking Number		
		5. Generator's Name and Mailing Address HERCULES INC. & CIBA CORP c/o ANTEA GROUP 500 SUMMIT LAKE DR STE 150 attn: Chris Meyer VALHALLA NY 10595		Generator's Site Address (if different than mailing address) HERCULES INC. & CIBA CORP 89 LOWER WARREN ST. QUEENSBURY NY 12804		Generator's Phone: (814) 495-9937				
6. Transporter 1 Company Name <i>Waste Handling Inc.</i>				U.S. EPA ID Number						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address WM of NEW YORK at HIGH ACRES LANDFILL 425 PERINTON PARKWAY FAIRPORT NY 14450		Facility's Phone: (585) 223-6132		U.S. EPA ID Number NA						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
					No.	Type				
		1. NON DOT REGULATED MATERIAL <div style="text-align: right;">115958NY</div>			001	CM	181			
		2.								
		3.								
	4.									
13. Special Handling Instructions and Additional Information 1 115958NY - ENVIRONMENTAL DERIVED WASTE WEIGHT IS ESTIMATED										
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.										
Generator's/Officer's Printed/Typed Name <i>Byron Rhee of Antea Group on behalf of Ashland Inc</i>					Signature <i>Byron Rhee of Antea Group on behalf of Ashland Inc</i>		Month <i>10</i>	Day <i>10</i>	Year <i>2016</i>	
INTL	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	Transporter signature (for exports only): _____									
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name <i>Byron Rhee of Antea Group</i>					Signature <i>Byron Rhee of Antea Group</i>		Month <i>10</i>	Day <i>10</i>	Year <i>2016</i>
	Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
DESIGNATED FACILITY	17. Discrepancy									
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number: _____									
	17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____									
	Facility's Phone: _____									
	17c. Signature of Alternate Facility (or Generator)							Month	Day	Year
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
	Printed/Typed Name					Signature		Month	Day	Year

Service Location: 300-6833 Hercules Inc & Ciba Corp (115958ny): 89 Lower Warren St.: Queensbury Ny 12804						
Date	Ticket	Description	Quantity	U/M	Rate	Amount
02/11/16	1065792	Vehicle#: s123				
		Po#:glens falls ptp ast				
		Special waste misc	13.15	TON	25.00	328.75
		Nys sales tax		TON		23.01
		Nys sales tax		ECH		120.00
		Nys sales tax		PCT		1.84
		Regulatory cost recovery	1.00	PCT	3.60	66.78
		Standard environmental fee taxable - percent (land	1.00	PCT		245.79
					13.25	
		Landfill fixed disposal fuel surcharge	1.00	PCT	8.00	26.30
		Trans per load	1.00	ECH	1,500.00	1,500.00
		Profile # 115958ny				
		Generator hercules inc. & Ciba corporation				
		Manifest# **				
		Ticket Total				2,312.47
02/11/16	1065803	Vehicle#: s123				
		Po#:glens falls ptp ast				
		Special waste misc	13.85	TON	25.00	346.25
		Nys sales tax		TON		24.24
		Nys sales tax		ECH		120.00
		Nys sales tax		PCT		1.94
		Regulatory cost recovery	1.00	PCT	3.60	67.46
		Standard environmental fee taxable - percent (land	1.00	PCT		248.30
					13.25	
		Landfill fixed disposal fuel surcharge	1.00	PCT	8.00	27.70
		Trans per load	1.00	ECH	1,500.00	1,500.00
		Profile # 115958ny				
		Generator hercules inc. & Ciba corporation				
		Manifest# **				
		Ticket Total				2,335.89
Total charges for service location						4,648.36
Total Current Charges						4,648.36

NOTICE: By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. This electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

You agree, in order for us to service our account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number associated with your account, including wireless telephone numbers, which could result in charges to you. We may also contact you by sending text messages, facsimile messages or e-mails, using any e-mail address you provide to use. Methods of contact may include using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable.

5123

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address HERCULES INC. & CIBA CORP c/o ANTEA GROUP 500 SUMMIT LAKE DR. STE 150 attn: Chris Meyer VALHALLA NY 10595			Generator's Site Address (if different than mailing address) HERCULES INC. & CIBA CORP 89 LOWER WARREN ST. QUEENSBURY NY 12804			
Generator's Phone: (914) 485-9937						
6. Transporter 1 Company Name <i>Silvatek Trucking Inc.</i>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WM of NEW YORK at HIGH ACRES LANDFILL 425 PERINTON PARKWAY FAIRPORT NY 14450			U.S. EPA ID Number N A			
Facility's Phone: (585) 223-6132						
GENERATOR ↓ INTL ↓ TRANSPORTER ↓ DESIGNATED FACILITY	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
		1. NON DOT REGULATED MATERIAL				
		115958NY	001	CM	18 tons	Est
		2.				
	3.					
	4.					
13. Special Handling Instructions and Additional Information 1. 115958NY - ENVIRONMENTAL DERIVED WASTE WEIGHT IS ESTIMATED						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name <i>Bryan Reles of Antea Group on behalf of Ashland, Inc</i> Signature <i>Bryan Reles of Antea Group on behalf of Ashland, Inc</i> Inc. Month Day Year <i>2 10 2016</i>						
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Brian J. Brumby</i>			Signature <i>Brian J. Brumby</i>		Month Day Year <i>2 10 16</i>	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator)			Manifest Reference Number:		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 <i>J. Tuckey</i>			Signature <i>J. Tuckey</i>		Month Day Year <i>12 11 16</i>	



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: ASHLAND INC.

U.S. EPA ID No.: NYD002069748

89 LOWER WARREN STREET , QUEENSBURY, NY 12804

Manifest: 015123901JJK

Page - Line

1 - 01

Approval: B160147MDI

NWW

Waste Code(s): D005 D006 D007 D008 D009 D010 K002 K003 K004 K005 K006 K007

Hazardous Constituents: 200 Antimony, 207 Cyanides (amenable)

Subcategory(s): D009 - Low Mercury Subcategory Nonwastewaters Non-RMERC residues

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.

This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Bryan Riles of Antec Group on behalf of Ashland, Inc. Title: Project Professional

Printed
Name:

Bryan Riles of Antec Group on behalf of Ashland, Inc.

Date:

3/7/2016

Invoice: 212611

Receipt 02-00 555319

Manifest 015123901JJJ

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 NYD 002 069 748	2. Page 1 of 1	3. Emergency Response Phone (800) 274-5283	4. Manifest Tracking Number 015123901 JJK				
5. Generator's Name and Mailing Address ASHLAND INC. 5200 BLAZER PARKWAY DUBLIN, OH 43017			Generator's Site Address (if different than mailing address) 89 LOWER WARREN STREET QUEENSBURY, NY 12804						
6. Transporter 1 Company Name EQ NORTHEAST, INC.			U.S. EPA ID Number MAD 084 814 136						
7. Transporter 2 Company Name EG Industrial Services			U.S. EPA ID Number MID 435442742						
8. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMENT 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MID 000 724 831						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	X	1NA3077, Hazardous waste, solid, n.o.s., (Wastewater Treatment Sludge), 9, PGIII, ERG #171	007	DM	3,500	P	K002	K003	K004
							K005	K006	K007
14. Special Handling Instructions and Additional Information B160147MDI / (S,T) Inorganic Pigment Processing Waste									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Bryan Riles of Antea Group on behalf of Ashland Inc.									
Signature By Riles of Antea Group on behalf of Ashland									
Month Day Year 03 07 16									
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Joseph J. Doner									
Signature [Signature]									
Month Day Year 03 07 16									
Transporter 2 Printed/Typed Name Tanya Stewart									
Signature [Signature]									
Month Day Year 03 07 16									
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: U.S. EPA ID Number:									
18b. Alternate Facility (or Generator) Facility's Phone: Month Day Year									
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. H110 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest export is noted in item 18a									
Signature Tanya Stewart									
Month Day Year 03 07 16									

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

DESIGNATED FACILITY TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 002 069 748	2. Page 1 of 1	3. Emergency Response Phone (800) 274-5263	4. Manifest Tracking Number 015123901 JJK				
5. Generator's Name and Mailing Address ASHLAND INC 5200 BLAZER PARKWAY DUBLIN, OH 43017			Generator's Site Address (if different than mailing address) 89 LOWER WARREN STREET QUEENSBURY, NY 12804						
Generator's Phone:									
6. Transporter 1 Company Name EQ NORTHEAST, INC.			U.S. EPA ID Number MAJ 084 814 136						
7. Transporter 2 Company Name			U.S. EPA ID Number						
8. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMENT 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 (800) 592-5489			U.S. EPA ID Number MID 000 724 831						
Facility's Phone:									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
			No.	Type					
	1. 1943077, Hazardous waste, solid, n.o.s., (Wastewater Treatment Sludge), 9, PGIII, ERG #171		007	DM	3,500	P	K002	K003	K004
							K005	K006	K007
14. Special Handling Instructions and Additional Information Hazardous Waste / (S, T) Inorganic / Organic Processing Waste									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Bayer, Rite of Union Group on behalf of Ashland Inc.			Signature Bayer, Rite of Union Group on behalf of Ashland Inc.			Month 03	Day 07	Year 16	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:						
Transporter signature (for exports only):									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Joseph T. Donohue			Signature			Month 03	Day 07	Year 16	
Transporter 2 Printed/Typed Name			Signature			Month	Day	Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)			U.S. EPA ID Number						
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H110			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	



EQ Northeast, Inc.
185 Industrial Road
Wrentham, MA 02093

Emergency
Response #: (800) 274-5263
Phone: (508) 384-6151
Fax: (508) 384-6028

Work Order: 7739900
Reference Code:
Arrival Time:
Date: 03/02/2016
Prepared By: Wanda Tobey

BILLING INFORMATION

Name: ANTEA USA INC
Acct. #: 17945-99
Phone: (800) 477-7411
Addr: 5910 RICECREEK PARKWAY #100
SHOEVIEW, MN 55126-5023
Contact:
Title:
Phone:
Mobile: () -
PO / Rel:

GENERATOR INFORMATION

Name: ASHLAND INC.
EPA #: NYD002089748 (ID: 138492)
Phone: () -
Addr: 89 LOWER WARREN STREET
QUEENSBURY, NY 12804
Contact:
Title:
Phone: () -
Mobile: () -

TSDF INFORMATION

TSDF: MICHIGAN DISPOSAL WASTE TREATM
Addr: 49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

EPA #: MID000724831
Phone: (800) 592-5489
Fax: (800) 592-5329

Manifest: 015123901JJJ

TSDF: MICHIGAN DISPOSAL WASTE TREATMEN
Addr: 49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
EPA #: MID000724831
Phone: (800) 592-5489
Fax: (800) 592-5329

HM DESCRIPTION

X 1. NA3077, Hazardous waste, solid, n.o.s., (Wastewater Treatment Sludge), 9, PGIII
Approval Code: B160147MDI (525282) Waste Codes: K002 K003 K004 K005 K006 K007
Hand. Instruct:

OF CONT. TYPE QUANTITY UNIT

007 DM 3500 P

EQUIPMENT ACKNOWLEDGMENT

Customer acknowledges that this equipment is suitable for the transportation, storage or other service to be provided.

Tractor # 487 Trailer # 382 Tanker # _____ Roll-Off Box # _____ w/ liner? _____ Spotted # _____ Picked up # _____ Vac Fee _____

Driver Signature

Date

Customer Signature

Date

Pickup	Date	Time	Explanation
Arrive at Shipper:		1615	
Start Loading:	3-7		Label + Load
Finish Loading:			
Leave Site:		1700	

SHIPMENT RECEIVED IN APPARENT GOOD ORDER (CONTENTS UNKNOWN)
SUBJECT TO THE TERMS AND CONDITIONS OF THE UNIFORM STRAIGHT
BILL OF LADING AND ANY GOVERNING CLASSIFICATIONS AND TARIFFS
LAWFULLY ON FILE ON THE DATE OF SHIPMENT.

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED,
MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE
APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Driver Signature

Date

Customer Signature

Date

Delivery	Date	Time	Explanation
Arrive at TSDF:			
Start Unloading:			
Finish Unloading:			
Leave Site:			

Driver Signature

Date

Receiver Signature

Date

Please comment on the job so we can continue to provide better service:

☐

Excellent

☐

Satisfactory

☐

Poor

CERTIFICATE OF DISPOSAL

us ecology



FORM #REC-FM-020-BEL

This certificate is to verify the wastes specified on Manifest # 015123901JJK

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME:
(Please check one)

☒ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature: _____

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

5/1/15



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: ASHLAND INC.
89 LOWER WARREN STREET , QUEENSBURY, NY 12804
Manifest: 015123435JJK

U.S. EPA ID No.: NYD002069748

Page - Line

1-01

Approval: B160147MDI

NWW

Waste Code(s): D005 D006 D007 D008 D009 D010 K002 K003 K004 K005 K006 K007

Hazardous Constituents: 200 Antimony, 207 Cyanides (amenable)

Subcategory(s): D009 - Low Mercury Subcategory Nonwastewaters Non-RMERC residues

Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.

This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature: Bryan Reles of Antea Group on behalf of Ashland Inc. **Title:** Project Professional

**Printed
Name:**

Bryan Reles of Antea Group on behalf of Ashland Inc. **Date:** 4/26/2016

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 NYD 002 069 748	2. Page 1 of 1	3. Emergency Response Phone (800) 274-5263	4. Manifest Tracking Number 015123435 JJK		
5. Generator's Name and Mailing Address ASHLAND INC. 5200 BLAZER PARKWAY DUBLIN, OH 43017 Generator's Phone:			Generator's Site Address (if different than mailing address) 89 LOWER WARREN STREET QUEENSBURY, NY 12804				
6. Transporter 1 Company Name EQ NORTHEAST, INC.			U.S. EPA ID Number MAD 084 814 136				
7. Transporter 2 Company Name EQ Industrial Services			U.S. EPA ID Number MAD 084 814 136				
8. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMENT 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MID 000 724 831				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1A3077, Hazardous waste, solid, n.o.s., (Wastewater Treatment Sludge), 9, PGIII, ERG #171	1	DM	500	P	K002 K003 K004 K005 K006 K007
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information B160147MDI / (S.T) Inorganic Pigment Processing Waste							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Bryan Roles of Antea Group on behalf of Ashland, Inc.		Signature Bryan Roles of Antea Group on behalf of Ashland, Inc.		Month Day Year 4 26 16			
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
	Transporter signature (for exports only):						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year		
	Transporter 1 Printed/Typed Name Lee M. Morgan		Signature Lee M. Morgan		4 26 16		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name Tonya Stewart		Signature Tonya Stewart		Month Day Year 4 27 16		
	18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H110 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 Dan Stoltz		Signature Dan Stoltz		Month Day Year 5 3 16			

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 015123435-J/K

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME:
(Please check one)

☒ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature: 

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111



EQ Northeast, Inc.
185 Industrial Road
Wrentham, MA 02093

Emergency
Response #: (800) 274-5263
Phone: (508) 384-8151
Fax: (508) 384-6028

Work Order: 7823800
Reference Code:
Arrival Time:
Date: 04/06/2016
Prepared By: Wanda Tobey

BILLING INFORMATION

Name: ANTEA USA INC
Acct. #: 17945-99
Phone: (800) 477-7411
Addr: 5910 RICECREEK PARKWAY #100
SHOEVIEW, MN 55126-5023
Contact:
Title:
Phone:
Mobile: () -
PO / Rel:

GENERATOR INFORMATION

Name: ASHLAND INC.
EPA #: NYD002069748 (ID: 138492)
Phone: () -
Addr: 89 LOWER WARREN STREET
QUEENSBURY, NY 12804
Contact:
Title:
Phone: () -
Mobile: () -

TSDf INFORMATION

TSDf: MICHIGAN DISPOSAL WASTE TREATM
Addr: 49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

EPA #: MID000724831
Phone: (800) 592-5489
Fax: (800) 592-5329

Manifest: 015123435JJK

TSDf: MICHIGAN DISPOSAL WASTE TREATMEN
Addr: 49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111

EPA #: MID000724831
Phone: (800) 592-5489
Fax: (800) 592-5329

HM DESCRIPTION

X 1. NA3077, Hazardous waste, solid, n.o.s., (Wastewater Treatment Sludge), 9, PGIII
Approval Code: B160147MDI (525282) Waste Codes: K002 K003 K004 K005 K006 K007
Hand. Instruct:

OF CONT. TYPE QUANTITY UNIT

1 / DM P

EQUIPMENT ACKNOWLEDGMENT

Customer acknowledges that this equipment is suitable for the transportation, storage or other service to be provided.

Tractor # 442 Trailer # 383 Tanker # _____ Roll-Off Box # _____ w/ liner? _____ Spotted # _____ Picked up # _____ Vac Fee _____

Driver Signature	Date	Customer Signature	Date
Pickup	Date	Time	Explanation
Arrive at Shipper:	4/5/16	1315	
Start Loading:			
Finish Loading:			
Leave Site:		1330	

SHIPMENT RECEIVED IN APPARENT GOOD ORDER (CONTENT'S UNKNOWN)
SUBJECT TO THE TERMS AND CONDITIONS OF THE UNIFORM STRAIGHT
BILL OF LADING AND ANY GOVERNING CLASSIFICATIONS AND TARIFFS
LAWFULLY ON FILE ON THE DATE OF SHIPMENT.

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED,
MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE
APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Driver Signature [Signature] Date 4/26/16 Customer Signature Bin Rule of Antea Group on behalf of Ashland Inc. Date 4/26/2016

Delivery	Date	Time	Explanation
Arrive at TSDf:			
Start Unloading:			
Finish Unloading:			
Leave Site:			

Driver Signature _____ Date _____ Receiver Signature _____ Date _____

Please comment on the job so we can continue to provide better service:

☐ Excellent ☐ Satisfactory ☐ Poor

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD0002069748		Manifest Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address Hercules Inc. - Ciba Corp. c/o Mr. Meyer 29 Lower Warren St. Gainesburg, NY 12804							
4. Generator's Phone (914) 495-6132							
5. Transporter 1 Company Name Sun Environmental		6. US EPA ID Number NYR000176952		A. State Transporter's ID 7A-709		B. Transporter 1 Phone 315-218-6795	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address WJM of New York on Highway 100/11 425 Perinton Parkway Fairport, NY 14450		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION Non-Haz / Non Reg. Solids Non-DOT Regulated Material Non-DOT Regulated Material				12. Containers No. Type		13. Total Quantity	
a. 116303NY				8 DF		2400	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information 1. 116303NY - Environmentally Derived Waste.							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bayer, Robert of Arden Group on behalf of Arden Inc.				Signature Bayer, Robert of Arden Group on behalf of Arden Inc.			
				Date 4/27/16			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Michael Simmons				Signature Michael Simmons			
				Date 4/27/16			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
				Date			
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature			
				Date			

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY





Appendix G

CAMP Exceedances

CAMP Exceedances				
Monitor 1 & 1R - Upwind Monitor 2 - Active Work Zone Monitor 3 - Downwind				
VOC ppm (Avg 15min) Exceedances				
Monitor 2 (Active Work Zone) Exceedances				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/19/2015 15:12	0.6955	6.6927	0	Unknown
11/19/2015 15:11	0.6958	7.3921	0	
11/19/2015 15:10	0.6963	7.3515	0	
11/19/2015 15:09	0.6959	7.1508	0	
11/19/2015 15:08	0.6955	6.783	0	
11/19/2015 15:07	0.697	6.5317	0	
11/19/2015 15:06	0.6963	6.4425	0	
11/19/2015 15:05	0.6955	6.2667	0	
11/19/2015 15:04	0.6948	6.0639	0	
11/19/2015 15:03	0.6939	5.6663	0	
11/19/2015 15:02	0.6933	5.3063	0	
11/19/2015 15:01	0.6925	5.014	0	
11/5/2015 10:31	0.3604	5.1451	0.1327	Three pressure washers simultaneously washing near AST door opening; CAMP monitor directly outside door. Possibly from tape/plastic being placed around door to hold plastic sheeting in place
11/5/2015 10:30	0.3601	5.3558	0.1327	
11/5/2015 10:29	0.3598	5.5916	0.133	
11/5/2015 10:28	0.3594	5.7885	0.1329	
11/5/2015 10:27	0.3593	5.9929	0.1331	
11/5/2015 10:26	0.359	5.7397	0.1336	
11/5/2015 10:25	0.3587	5.3078	0.1335	
11/5/2015 10:24	0.3587	5.0976	0.1337	
11/5/2015 10:23	0.3586	5.3153	0.1339	
11/2/2015 14:28	0.1656	5.4031	0.0556	Pressure washing smaller vessels outside of large AST; CAMP monitor close to opening port of vessel
11/2/2015 14:27	0.1665	5.6702	0.0525	
11/2/2015 14:26	0.1674	6.0097	0.0473	
11/2/2015 14:25	0.1683	6.1011	0.0473	
11/2/2015 14:24	0.1693	6.4985	0.048	
11/2/2015 14:23	0.1703	8.3546	0.0436	
11/2/2015 14:22	0.1713	8.9153	0.0701	
11/2/2015 14:18	0.1741	7.681	0.0683	
11/2/2015 14:17	0.175	7.4899	0.0664	
11/2/2015 14:16	0.176	7.1889	0.0657	
11/2/2015 14:15	0.1769	7.4574	0.0648	
11/2/2015 14:14	0.1777	6.7744	0.0631	

CAMP Exceedances

Monitor 1 & 1R - Upwind
 Monitor 2 - Active Work Zone
 Monitor 3 - Downwind

VOC ppm (Avg 15min) Exceedances

Monitor 3 (Downwind) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/13/2015 11:12	0.5119	0.3459	5.3466	Burning on adjacent property
10/13/2015 11:11	0.5125	0.3433	8.7527	
10/13/2015 11:10	0.513	0.3433	8.7549	
10/13/2015 11:09	0.5135	0.3424	8.7565	
10/13/2015 11:08	0.5132	0.3405	8.7587	
10/13/2015 11:07	0.5131	0.3397	8.7613	
10/13/2015 11:06	0.5131	0.3396	8.7642	
10/13/2015 11:05	0.5131	0.3348	8.7671	
10/13/2015 11:04	0.5132	0.3216	8.7707	
10/13/2015 11:03	0.5139	0.3009	8.7749	
10/13/2015 11:02	0.5143	0.2963	8.7798	
10/13/2015 11:01	0.5149	0.2934	8.7856	
10/13/2015 11:00	0.5155	0.2905	8.7913	
10/13/2015 10:59	0.5158	0.2773	8.7957	
10/13/2015 10:58	0.5161	0.281	8.7926	

CAMP Exceedances

Monitor 1 & 1R - Upwind
 Monitor 2 - Active Work Zone
 Monitor 3 - Downwind

Particulate (Avg 15min) (mg/mA³) Exceedances

Monitor 3 (Downwind) Exceedances

Date and Time	Monitor 3 Levels	Monitor 1 & 1R Levels	Monitor 2 Levels	Likely Cause of Exceedance
11/3/2015 10:09	0.1078	0.0024	0.1419	Limestone ash being added to roll-off bin outside PTP; dust carried when limestone ash was being poured
11/3/2015 10:08	0.1097	0.0025	0.3069	
11/3/2015 10:07	0.1099	0.0027	0.3074	
11/3/2015 10:06	0.1099	0.0029	0.3073	
11/3/2015 10:05	0.1101	0.003	0.3343	
11/3/2015 10:04	0.1105	0.0031	0.3348	
11/3/2015 10:03	0.1107	0.004	0.3355	
11/3/2015 10:02	0.1112	0.0041	0.3355	
11/3/2015 10:01	0.1115	0.0041	0.3406	
11/3/2015 10:00	0.1115	0.0042		
11/3/2015 9:59	0.1115	0.0045		
11/3/2015 9:58	0.1116	0.0045		
11/3/2015 9:57	0.1119	0.0046	0.2697	
11/3/2015 9:56	0.1033	0.0047	0.2629	
10/20/2015 9:08	0.1342	0.0239	0.3589	Smoke from using a hot pressure washer that had soot on the heating coils
10/20/2015 9:07	0.1537	0.0238	0.3473	
10/20/2015 9:06	0.1559	0.0236	0.3567	
10/20/2015 9:05	0.1582	0.0233	0.3556	
10/20/2015 9:04	0.1623	0.0233	0.3507	
10/20/2015 9:03	0.1693	0.0233	0.3471	
10/20/2015 9:02	0.1675	0.0232	0.3272	
10/20/2015 9:01	0.1554	0.0232	0.3109	
10/20/2015 9:00	0.1538	0.0231	0.3032	
10/20/2015 8:59	0.1523	0.0229	0.2657	
10/20/2015 8:58	0.1411	0.0229	0.2705	
10/20/2015 8:57	0.1352	0.0229	0.2706	
10/20/2015 8:56	0.1225	0.0228	0.2591	
10/20/2015 8:55	0.1055	0.0227	0.2476	

CAMP Exceedances

Monitor 1 & 1R - Upwind
 Monitor 2 - Active Work Zone
 Monitor 3 - Downwind

Particulate (Avg 15min) (mg/mA^3) Exceedances

Monitor 2 (Active Work Zone) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/23/2015 15:50	0.0016	0.101	0.0035	Unknown
11/23/2015 15:49	0.0015	0.1102	0.0036	
11/23/2015 15:48	0.0015	0.1183	0.0037	
11/23/2015 15:47	0.0015	0.1225	0.0037	
11/23/2015 15:46	0.0014	0.1222	0.0037	
11/23/2015 15:45	0.0014	0.1252	0.0038	
11/23/2015 15:44	0.0013	0.1204	0.0038	
11/23/2015 15:43	0.0014	0.127	0.0039	
11/23/2015 15:42	0.0015	0.1248	0.0039	
11/23/2015 15:41	0.0015	0.1218	0.0038	
11/23/2015 15:40	0.0017	0.1262	0.0039	
11/23/2015 15:39	0.0017	0.1285	0.0041	
11/23/2015 15:38	0.0017	0.1335	0.0041	
11/23/2015 15:37	0.0017	0.1373	0.0041	
11/23/2015 15:36	0.0016	0.1347	0.0041	
11/23/2015 15:35	0.0015	0.1296	0.0041	
11/23/2015 15:34	0.0015	0.1272	0.0039	
11/23/2015 15:33	0.0015	0.118	0.0039	
11/23/2015 15:32	0.0015	0.1171	0.0039	
11/23/2015 15:31	0.0015	0.1155	0.0039	
11/23/2015 15:30	0.0015	0.1124	0.0039	
11/23/2015 15:29	0.0015	0.1118	0.0039	
11/23/2015 15:28	0.0018	0.1042	0.0039	
11/23/2015 15:27	0.0017	0.1064	0.0039	
11/23/2015 15:26	0.0017	0.1059	0.0039	
11/23/2015 15:25	0.0015	0.1045	0.0038	
11/23/2015 15:24	0.0015	0.1075	0.0036	
11/23/2015 13:55	0.0011	0.1118	0.0033	
11/23/2015 13:54	0.0011	0.1164	0.0032	
11/23/2015 13:53	0.0011	0.1143	0.0031	
11/23/2015 13:52	0.0011	0.111	0.003	
11/23/2015 13:51	0.0011	0.1077	0.003	
11/23/2015 13:45	0.0011	0.1053	0.0027	
11/23/2015 13:44	0.0011	0.1038	0.0026	

CAMP Exceedances				
Monitor 1 & 1R - Upwind Monitor 2 - Active Work Zone Monitor 3 - Downwind				
Particulate (Avg 15min) (mg/mA^3) Exceedances				
Monitor 2 (Active Work Zone) Exceedances				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
11/5/2015 9:37	0	0.1037	0.0389	Three pressure washers simultaneously washing near door opening; CAMP monitor directly outside door
11/5/2015 9:36	0	0.1081	0.0388	
11/5/2015 9:35	0	0.1097	0.0388	
11/5/2015 9:34	0	0.1124	0.0388	
11/5/2015 9:33	0	0.1123	0.0387	
11/5/2015 9:32	0	0.1108	0.039	
11/5/2015 9:31	0	0.1113	0.039	
11/5/2015 9:30	0	0.1106		
11/5/2015 9:29	0	0.107		
11/5/2015 9:28	0	0.1045		
11/5/2015 9:27	0	0.1017		
11/3/2015 10:09	0.0024	0.1419	0.1078	Limestone ash being added to roll-off bin outside PTP; dust carried when limestone ash was being poured
11/3/2015 10:08	0.0025	0.3069	0.1097	
11/3/2015 10:07	0.0027	0.3074	0.1099	
11/3/2015 10:06	0.0029	0.3073	0.1099	
11/3/2015 10:05	0.003	0.3343	0.1101	
11/3/2015 10:04	0.0031	0.3348	0.1105	
11/3/2015 10:03	0.004	0.3355	0.1107	
11/3/2015 10:02	0.0041	0.3355	0.1112	
11/3/2015 10:01	0.0041	0.3406	0.1115	
11/3/2015 9:57	0.0046	0.2697	0.1119	
11/3/2015 9:56	0.0047	0.2629	0.1033	
11/3/2015 9:55	0.0048	0.2556	0.08	
11/3/2015 9:54	0.0049	0.1889	0.0181	
10/20/2015 12:03	0.0186	0.1025	0.0164	Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/20/2015 12:02	0.0187	0.1105	0.0165	
10/20/2015 12:01	0.0187	0.1157	0.0168	
10/20/2015 12:00	0.0187	0.12	0.017	
10/20/2015 11:59	0.0187	0.1257	0.0169	
10/20/2015 11:58	0.0187	0.1359		

CAMP Exceedances

Monitor 1 & 1R - Upwind
 Monitor 2 - Active Work Zone
 Monitor 3 - Downwind

Particulate (Avg 15min) (mg/mA³) Exceedances

Monitor 2 (Active Work Zone) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 11:57	0.0188	0.1424		Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/20/2015 11:56	0.0187	0.1472		
10/20/2015 11:55	0.0185	0.1573	0.0166	
10/20/2015 11:54	0.0186	0.1615	0.0162	
10/20/2015 11:53	0.0187	0.1607		
10/20/2015 11:52	0.0187	0.1616	0.0196	
10/20/2015 11:51	0.0187	0.1598	0.0235	
10/20/2015 11:50	0.0187	0.1577	0.0316	
10/20/2015 11:49	0.0189	0.1525		
10/20/2015 11:48	0.0189	0.1417	0.0359	
10/20/2015 11:47	0.0189	0.1321		
10/20/2015 11:46	0.019	0.124		
10/20/2015 11:45	0.0191	0.1162	0.0329	
10/20/2015 11:44	0.0192	0.1065	0.0331	
10/20/2015 9:56	0.0227	0.1213	0.0695	
10/20/2015 9:55	0.0227	0.1319	0.075	
10/20/2015 9:54	0.0229	0.1533	0.0801	
10/20/2015 9:53	0.0229	0.1673	0.0808	
10/20/2015 9:52	0.023	0.1843	0.0837	
10/20/2015 9:51	0.023	0.2025	0.0974	
10/20/2015 9:50	0.0231	0.2113	0.0992	
10/20/2015 9:49	0.0231	0.2361	0.0997	
10/20/2015 9:48	0.0231	0.2335	0.0998	
10/20/2015 9:47	0.023	0.2277	0.0995	
10/20/2015 9:46	0.0233	0.2229	0.0985	
10/20/2015 9:45	0.0233	0.2157	0.0947	
10/20/2015 9:44	0.0233	0.2076	0.0854	
10/20/2015 9:43	0.0233	0.1941	0.0774	
10/20/2015 9:42	0.0233	0.1813	0.0663	
10/20/2015 9:41	0.0233	0.1592	0.0502	
10/20/2015 9:40	0.0233	0.1522	0.0449	

CAMP Exceedances

Monitor 1 & 1R - Upwind
 Monitor 2 - Active Work Zone
 Monitor 3 - Downwind

Particulate (Avg 15min) (mg/mA³) Exceedances

Monitor 2 (Active Work Zone) Exceedances

Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 9:39	0.0233	0.1356	0.0397	Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/20/2015 9:38	0.0235	0.1235	0.0392	
10/20/2015 9:37	0.0235	0.1125	0.0363	
10/20/2015 9:36	0.0235	0.1047	0.0225	
10/20/2015 9:35	0.0235	0.1082	0.0207	
10/20/2015 9:33	0.0235	0.1066	0.0205	
10/20/2015 9:32	0.0236	0.1232	0.0207	
10/20/2015 9:31	0.0234	0.139	0.0208	
10/20/2015 9:30	0.0234	0.1587	0.0211	
10/20/2015 9:29	0.0235	0.1849	0.0212	
10/20/2015 9:28	0.0235	0.2061	0.0217	
10/20/2015 9:27	0.0236	0.2329	0.0244	
10/20/2015 9:26	0.0238	0.2661	0.0327	
10/20/2015 9:25	0.0239	0.2887	0.0416	
10/20/2015 9:24	0.0238	0.31	0.0482	
10/20/2015 9:23	0.0236	0.3349	0.0485	
10/20/2015 9:22	0.0236	0.3512	0.0492	
10/20/2015 9:21	0.0237	0.3472	0.0493	
10/20/2015 9:20	0.024	0.3456	0.0494	
10/20/2015 9:19	0.0241	0.3532	0.0494	
10/20/2015 9:18	0.0241	0.3665	0.0502	
10/20/2015 9:17	0.0242	0.3801	0.0517	
10/20/2015 9:16	0.0242	0.4015	0.0636	
10/20/2015 9:15	0.0242	0.4084	0.0649	
10/20/2015 9:14	0.0243	0.4241	0.0661	
10/20/2015 9:13	0.0242	0.4181	0.0768	
10/20/2015 9:12	0.0241	0.4033	0.0798	
10/20/2015 9:11	0.0239	0.3831	0.0841	
10/20/2015 9:10	0.0239	0.3716	0.092	
10/20/2015 9:09	0.0239	0.3577	0.0985	
10/20/2015 9:08	0.0239	0.3589	0.1342	

CAMP Exceedances				
Monitor 1 & 1R - Upwind Monitor 2 - Active Work Zone Monitor 3 - Downwind				
Particulate (Avg 15min) (mg/mA^3) Exceedances				
Monitor 2 (Active Work Zone) Exceedances				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/20/2015 9:07	0.0238	0.3473	0.1537	Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/20/2015 9:06	0.0236	0.3567	0.1559	
10/20/2015 9:05	0.0233	0.3556	0.1582	
10/20/2015 9:04	0.0233	0.3507	0.1623	
10/20/2015 9:03	0.0233	0.3471	0.1693	
10/20/2015 9:02	0.0232	0.3272	0.1675	
10/20/2015 9:01	0.0232	0.3109	0.1554	
10/20/2015 9:00	0.0231	0.3032	0.1538	
10/20/2015 8:59	0.0229	0.2657	0.1523	
10/20/2015 8:58	0.0229	0.2705	0.1411	
10/20/2015 8:57	0.0229	0.2706	0.1352	
10/20/2015 8:56	0.0228	0.2591	0.1225	
10/20/2015 8:55	0.0227	0.2476	0.1055	
10/20/2015 8:54	0.0227	0.2447	0.0925	
10/20/2015 8:53	0.0226	0.2233	0.0562	
10/20/2015 8:52	0.0226	0.2145	0.0359	
10/20/2015 8:51	0.0225	0.2093	0.0336	
10/20/2015 8:50	0.0225	0.2013	0.0311	
10/20/2015 8:49	0.0223	0.189	0.0268	
10/20/2015 8:48	0.0224	0.1694	0.0188	
10/20/2015 8:47	0.0223	0.1597	0.0188	
10/20/2015 8:46	0.0223	0.1405	0.0189	
10/20/2015 8:45	0.0223	0.1236	0.019	
10/20/2015 8:44	0.0208	0.1209	0.0191	
10/20/2015 8:43	0.0193	0.1013	0.0191	
10/19/2015 14:15		0.1021	0.0072	Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/19/2015 14:14	0.0071	0.1143	0.0072	
10/19/2015 14:13	0.007	0.1325	0.0072	
10/19/2015 14:12	0.007	0.142	0.0072	
10/19/2015 14:11	0.0071	0.1599	0.0072	

CAMP Exceedances				
Monitor 1 & 1R - Upwind Monitor 2 - Active Work Zone Monitor 3 - Downwind				
Particulate (Avg 15min) (mg/mA^3) Exceedances				
Monitor 2 (Active Work Zone) Exceedances				
Date and Time	Monitor 1 & 1R Levels	Monitor 2 Levels	Monitor 3 Levels	Likely Cause of Exceedance
10/19/2015 14:10	0.0072	0.1787	0.0072	Smoke filling the PTP building as a result of using a hot pressure washer that had soot on the heating coils
10/19/2015 14:09	0.0071	0.198	0.0071	
10/19/2015 14:08	0.0068	0.2239	0.0071	
10/19/2015 14:07	0.0067	0.255	0.0071	
10/19/2015 14:06	0.0068	0.2691	0.0071	
10/19/2015 14:05		0.2925	0.007	
10/19/2015 14:04	0.0068	0.2945	0.0069	
10/19/2015 14:03	0.0076	0.3256	0.007	
10/19/2015 14:02	0.0077	0.3397	0.0071	
10/19/2015 14:01	0.0078	0.3323	0.0071	
10/19/2015 14:00	0.0079	0.3221	0.0072	
10/19/2015 13:59	0.0081	0.308	0.0072	
10/19/2015 13:58	0.0083	0.2879	0.0072	
10/19/2015 13:57	0.0084	0.2755	0.0071	
10/19/2015 13:56	0.0084	0.2547	0.0069	
10/19/2015 13:55		0.233	0.0069	
10/19/2015 13:54	0.008	0.2093	0.0068	
10/19/2015 13:53	0.0079	0.1766	0.0068	
10/19/2015 13:52	0.0078	0.1377	0.0069	
10/19/2015 13:51	0.0081	0.1173	0.007	
10/19/2015 12:03	0.0045	0.1216	0.0333	
10/19/2015 12:02	0.0057	0.1359	0.0354	
10/19/2015 12:01	0.0072	0.216	0.0378	
10/19/2015 12:00	0.007	0.265	0.0436	
10/19/2015 11:59	0.0082	0.3709	0.0632	
10/19/2015 11:58		0.37	0.0631	
10/19/2015 11:57		0.3694	0.0631	
10/19/2015 11:56		0.3681	0.0625	
10/19/2015 11:55	0.0071	0.3643	0.0622	
10/19/2015 11:54	0.0069	0.3617	0.0585	
10/19/2015 11:53	0.0072	0.3669	0.0583	
10/19/2015 11:52	0.0076	0.3576	0.0578	
10/19/2015 11:51	0.0076	0.3504	0.0525	
10/19/2015 11:50		0.3482	0.0496	
10/19/2015 11:49	0.008	0.3085	0.0347	
10/19/2015 11:48	0.007	0.2754	0.0315	
10/19/2015 11:49	0.006	0.2629	0.0294	
Blank cell - gap in telemetry communication				



Appendix H

Data Usability Summary Report

LETTER OF TRANSMITTAL



ALPHA GEOSCIENCE

679 Plank Road
Clifton Park, NY 12065
(518) 348-6995 Phone
(518) 348-6966 FAX

TO: Ms Carolyn Clemmens
Antea Group
5788 Widewaters Parkway, 2nd Floor
Syracuse, New York 13214

FROM: Don Anne'

DATE: 3/10/2016

SUBJECT: Data Validation
Glens Falls
Oct-Dec 2015 Water Sampling Events

WE ARE TRANSMITTING
THE FOLLOWING ITEMS:

☐ Photographs ☐ Letter(s)
☐ Maps/Plans ☐ Disk(s)
☐ Report(s) ☐ Other

Originals	Copies	Description of Materials
1		ALS Environmental data pack, Service Request No. R1509357
1		ALS Environmental data pack, Service Request No. R1509522
1		ALS Environmental data pack, Service Request No. R1509579
1		ALS Environmental data pack, Service Request No. R1509909
1		ALS Environmental data pack, Service Request No. R1510060
1		ALS Environmental data pack, Service Request No. R1510260
1		ALS Environmental data pack, Service Request No. R1510352

These Materials are Transmitted:

☐ For your use ☐ Approved as submitted
☐ For your approval ☐ Approved as noted
☐ For your review and comment ☐ Returned after loaned to us
☐ Returned for revision

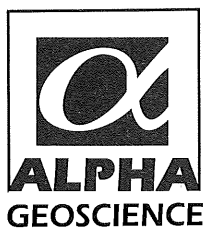
Please: ☐ Return original to us ☐ Retain for your files
☐ Submit after revision ☐ Other

REMARKS:

ADDITIONAL COPIES TO:

SIGNATURE:

Donald Anne'



Geology

Hydrology

Remediation

Water Supply

March 10, 2016

Ms. Carolyn Clemmens
Staff Professional
Antea Group
5788 Widewaters Parkway, 2nd Floor
Syracuse, New York 13214

Re: Data Validation Report
Glens Falls
October-December 2015 Water Sampling Events

Dear Ms. Clemmens:

The data usability summary reports (DUSRs) and data validation summaries are attached to this letter for Glens Falls, October-December 2015 water sampling events. The data for the following ALS Environmental, services request numbers were acceptable with minor issues that are identified and discussed in the validation summaries.

R1509357
R1510060

R1509522
R1510260

R1509579
R1510352

R1509909

There were no data that were qualified as either estimated (J) or unusable, rejected (R) in the data packs. A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist the Antea Group.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA:dca
attachments

Z:\projects\2016\16600 - 16620\16603-Glens Falls\Glens Falls-161.ltr.wpd

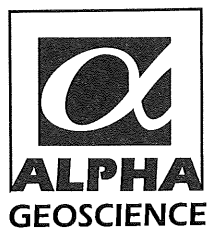
Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



Geology

Hydrology

Remediation

Water Supply

**Data Usability Summary Report for
ALS Environmental
Service Request No. R1509357**

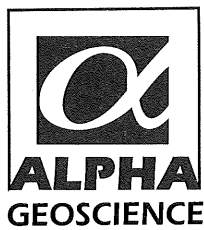
**3 Water Samples
Collected October 30, 2015**

Prepared by: Donald Anné
March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1509357**

**3 Water Samples
Collected October 30, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample Vessel 2S. (This data is from SR No. R1509522.)

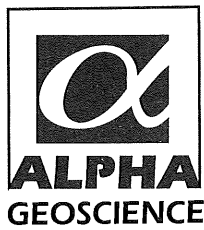
Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample Vessel 2A. (This data is from SR No. R1509522.)

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample Vessel 2D, as required. (This data is from SR No. R1509522.)

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample Vessel 2L, as required. (This data is from SR No. R1509522.)

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1509357**

**3 Water Samples
Collected October 30, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

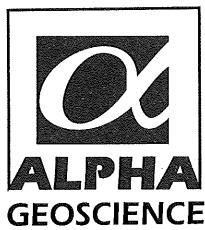
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample Test-2.

Laboratory Duplicates: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for aqueous duplicate sample Test-2, as required.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509357-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1509357**

**3 Water Samples
Collected October 30, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

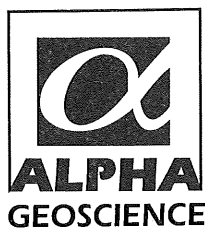
Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

Laboratory Duplicates: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509357-LCS1 and R1509357-LCS2.



Geology

Hydrology

Remediation

Water Supply

**Data Usability Summary Report for
ALS Environmental
Service Request No. R1509522**

**2 Water Samples and 1 Field Duplicate
Collected November 4, 2015**

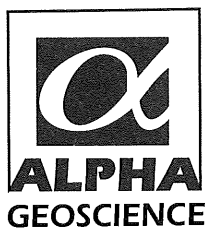
Prepared by: Donald Anné
March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples and 1 field duplicate analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1509522**

**2 Water Samples and 1 Field Duplicate
Collected November 4, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample Vessel 2S.

Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample Vessel 2A.

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample Vessel 2D, as required.

Field Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample Vessel 2L, as required.

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TAL Metals

Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. R1509522

S1= Vessel 2

S2= DUP110415

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
aluminum	ND	ND	NC
antimony	ND	ND	NC
arsenic	ND	ND	NC
barium	32.1	32.6	2%
beryllium	ND	ND	NC
cadmium	ND	ND	NC
calcium	6640	6840	3%
chromium	95.6	102	6%
cobalt	ND	ND	NC
copper	ND	ND	NC
iron	1010	860	16%
lead	ND	ND	NC
magnesium	1390	1430	3%
manganese	76.3	73.4	4%
mercury	ND	ND	NC
nickel	ND	ND	NC
potassium	ND	ND	NC
selenium	ND	ND	NC
silver	ND	ND	NC
sodium	18900	18800	1%
thallium	ND	ND	NC
vanadium	ND	ND	NC
zinc	ND	ND	NC

All results are in units of ug/L.

Hexavalent Chromium & Total cyanide

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
hexavalent chromium	0.071	0.068	4%
total cyanide	0.139	0.133	4%

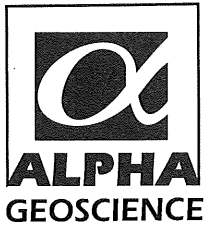
All results are in units of mg/L.

* RPD is above the allowable maximum (20%)

Bold numbers were values that below the CRDL.

ND - Not detected.

NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1509522**

**2 Water Samples and 1 Field Duplicate
Collected November 4, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

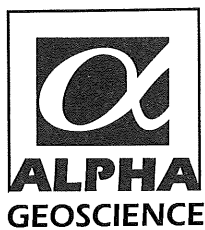
Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample Vessel 2.

Laboratory Duplicates: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required.

Field Duplicates: The relative percent difference for hexavalent chromium was below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509522-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1509522**

**2 Water Samples and 1 Field Duplicate
Collected November 4, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

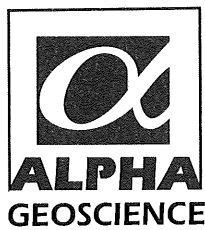
Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2.

Laboratory Duplicates: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required.

Field Duplicates: The relative percent difference for total cyanide was below the allowable maximum (20%) for field duplicate pair Vessel 2/DUP110415 (attached table), as required.

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509522-LCS1 and R1509522-LCS2.



Geology

Hydrology

Remediation

Water Supply

**Data Usability Summary Report for
ALS Environmental
Service Request No. R1509579**

**3 Water Samples
Collected November 5, 2015**

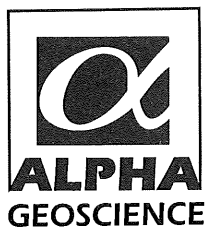
Prepared by: Donald Anné
March 10, 2016

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1509579**

**3 Water Samples
Collected November 5, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S.

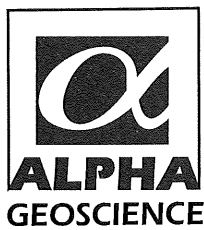
Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A.

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required.

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample MW-1L, as required.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1509579**

**3 Water Samples
Collected November 5, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

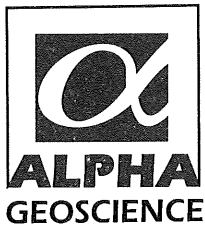
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample NE-2.

Laboratory Duplicates: The analysis of aqueous duplicate sample NE-2 was acceptable.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509579-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1509579**

**3 Water Samples
Collected November 5, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

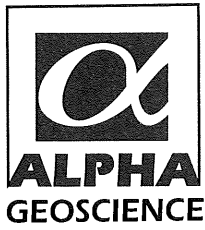
Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

Laboratory Duplicates: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509579-LCS1 and R1509579-LCS2.



**Data Usability Summary Report for
ALS Environmental
Service Request No. R1509909**

**2 Water Samples
Collected November 13, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

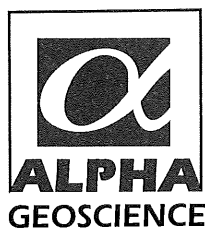
Remediation

Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1509909**

**2 Water Samples
Collected November 13, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)

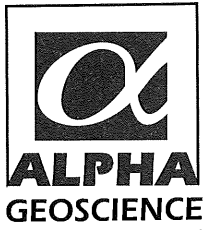
Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)

Laboratory Duplicates: The relative percent differences for target metals were below the allowable maximum (20%) in aqueous duplicate sample LCSWD, as required.

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS and LCSD.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SE-2L, as required.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1509909**

**2 Water Samples
Collected November 13, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

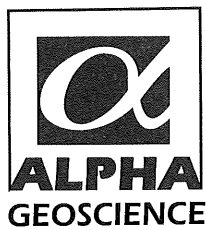
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SE-1.

Laboratory Duplicates: The analysis of aqueous duplicate sample SE-1 was acceptable.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1509909-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1509909**

**2 Water Samples
Collected November 13, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

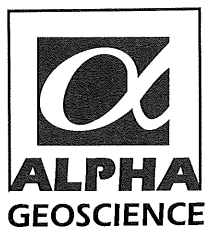
Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample Vessel 2. (This data is from SR No. R1509522.)

Laboratory Duplicates: The relative percent difference for total cyanide was below the allowable maximum (20%) for aqueous duplicate sample Vessel 2, as required. (This data is from SR No. R1509522.)

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1509909-LCS1 and R1509909-LCS2.



**Data Usability Summary Report for
ALS Environmental
Service Request No. R1510060**

**2 Water Samples
Collected November 18, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

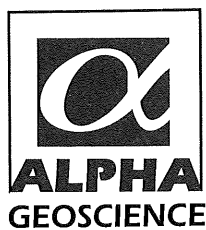
Remediation

Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 2 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1510060**

**2 Water Samples
Collected November 18, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recovery (%R) for mercury was within control limits (75-125%) for aqueous spike sample SW-1S.

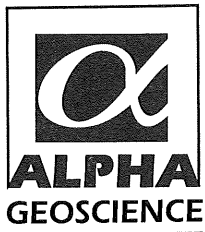
The %Rs for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)

Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SW-2L, as required.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1510060**

**2 Water Samples
Collected November 18, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

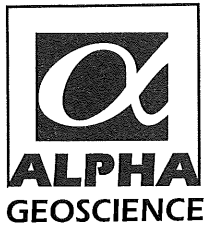
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SE-1. (This data is from SR No. R1509909.)

Laboratory Duplicates: The analysis of aqueous duplicate sample SE-1 was acceptable. (This data is from SR No. R1509909.)

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510060-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1510060**

**2 Water Samples
Collected November 18, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

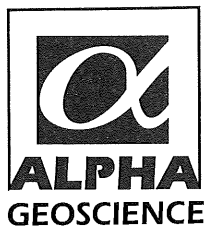
Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample SW-1.

Laboratory Duplicates: The analysis of aqueous duplicate sample SW-1 was acceptable.

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1510060-LCS1 and R1510060-LCS2.



**Data Usability Summary Report for
ALS Environmental
Service Request No. R1510260**

**1 Water Sample
Collected November 24, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

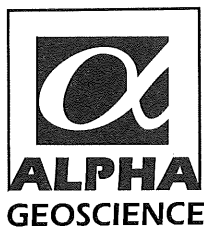
Remediation

Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 1 water sample analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1510260**

**1 Water Sample
Collected November 24, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: The sample was analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)

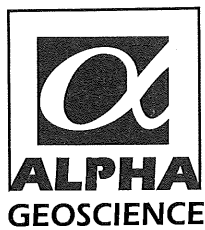
Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample NE FLOORL, as required.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1510260**

**1 Water Sample
Collected November 24, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: The sample was analyzed within the USEPA SW846 holding time.

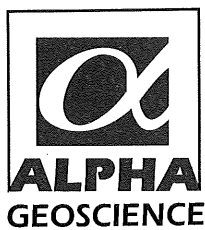
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample NE FLOOR.

Laboratory Duplicates: The analysis of aqueous duplicate sample NE FLOOR was acceptable.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510260-LCS1.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1510260**

**1 Water Sample
Collected November 24, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: The sample was analyzed within the USEPA SW846 holding time.

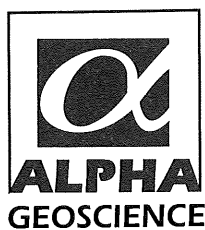
Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample SW-1. (This data is from SR No. R1510060.)

Laboratory Duplicates: The analysis of aqueous duplicate sample SW-1 was acceptable. (This data is from SR No. R1510060.)

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R1510260-LCS1 and R1510260-LCS2.



**Data Usability Summary Report for
ALS Environmental
Service Request No. R1510352**

**3 Water Samples
Collected November 30 and December 1, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

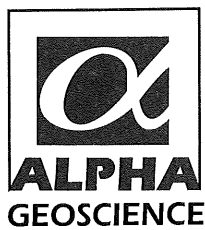
Remediation

Water Supply

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. The information appeared legible and complete. The data pack contained the results of 3 water samples analyzed for TAL metals, hexavalent chromium, and total cyanide.

The overall performances of the analyses are acceptable. ALS Environmental did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation reviews. There were no data that were flagged as either estimated (J) or unusable, rejected (R); therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.



Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of TAL Metals Data for
ALS Environmental, Service Request No: R1510352**

**3 Water Sample
Collected November 30 and December 1, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Samples were analyzed within USEPA SW846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for TAL metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

CRDL Standard for AA and ICP: The percent recoveries for target metals were within laboratory QC limits (70-130%).

Blanks: The analyses of initial and continuing calibration, and preparation blanks reported TAL metals as not detected.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries for target metals were within control limits (75-125%) for aqueous spike sample NW-1S. (This data is from SR No. R1509579.)

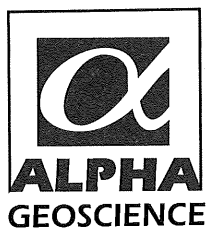
Post Digest Spike Sample Recovery: The percent recoveries for target metals were within control limits (80-120%) for aqueous spike sample NW-1A. (This data is from SR No. R1509579.)

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) in aqueous duplicate sample NW-1D, as required. (This data is from SR No. R1509579.)

Laboratory Control Sample: The percent recoveries for TAL metals were within control limits (80-120%) for aqueous LCS.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous serial dilution sample SE-FLOORL, as required.

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Geology

Hydrology

Remediation

Water Supply

**QA/QC Review of Hexavalent Chromium Data for
ALS Environmental, Service Request No: R1510352**

**3 Water Samples
Collected December 1, 2015**

Prepared by: Donald Anné
March 10, 2016

Holding Times: Sample were analyzed within the USEPA SW846 holding time.

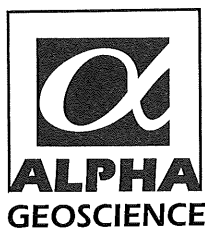
Continuing Calibration Verification: The percent recoveries for hexavalent chromium were within control limits (90-110%).

Blanks: The analyses continuing calibration and method blanks reported hexavalent chromium as not detected.

Spike Sample Recovery: The percent recovery for hexavalent chromium was within control limits (75-125%) for aqueous spike sample SW FLOOR.

Laboratory Duplicates: The analysis of aqueous duplicate sample SW FLOOR was acceptable.

Laboratory Control Sample: The percent recovery for hexavalent chromium was within control limits (80-120%) for aqueous sample R1510352-LCS1.



**QA/QC Review of Total Cyanide Data for
ALS Environmental, Service Request No: R1510352**

**3 Water Samples
Collected November 30 and December 1, 2015**

Prepared by: Donald Anné
March 10, 2016

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within the USEPA SW846 holding time.

Continuing Calibration Verification: The percent recoveries for total cyanide were within control limits (85-115%).

Blanks: The analyses of continuing calibration and method blanks reported total cyanide as not detected.

Spike Sample Recovery: The percent recovery for total cyanide were within control limits (80-120%) for aqueous spike sample NW-FLOOR.

Laboratory Duplicates: The analysis of aqueous duplicate sample NW FLOOR was acceptable.

Laboratory Control Sample: The percent recoveries for total cyanide were within control limits (80-120%) for aqueous samples R15103520-LCS1 and R1510352-LCS2.



Table 1

Confirmation Sample Results

Table 1
Confirmatory Samples (AST T-110 and Filter Vessels)
Laboratory Analytical Results

Analyte	NYSDEC CLASS GA GROUNDWATER STANDARD (ug/L)	NE-1 Northeast Wall	Vessel 1 Sand Filter	Vessel 2 Sand Filter	DUP110415 Vessel 2 Duplicate	NE-2 Northeast Wall	NW-1 Northwest Wall	NW-2 Northwest Wall	SE-1 Southeast Wall	SE-2 Southeast Wall	SW-1 Southwest Wall	SW-2 Southwest Wall	NE FLOOR Northeast Floor	NW Floor Northwest Floor	NW Floor-R ¹ Northwest Floor Re- do	SW Floor Southwest Floor	SE Floor Southeast Floor
Metals (ug/L)		10/30/2015	11/4/2015	11/4/2015	11/4/2015	11/5/2015	11/5/2015	11/5/2015	11/13/2015	11/13/2015	11/18/2015	11/18/2015	11/24/2015	11/30/2015	12/1/2015	12/1/2015	12/1/2015
Aluminum	100 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	120	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Barium	1,000	ND	55	32	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Beryllium	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Calcium	NS	6,000	6,300	6,600	6,800	4,600	4,900	5,100	6,000	6,100	5,900	6,100	6,600	5,900	-	13,400	13,700
Chromium	50	ND	97	96	102	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Cobalt	5 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Copper	200	ND	231	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Iron	300	771	7,740	1,010	860	640	430	290	600	610	930	540	160	270	-	660	820
Lead	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	71	-	81	ND
Magnesium	35,000	1,420	1,400	1,400	1,400	1,000	1,100	1,100	1,400	1,500	1,300	1,400	1,200	1,200	-	2,500	2,600
Manganese	300	39	143	76	73	222	215	198	56	62	181	235	42	20	-	37	38
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Nickel	100	ND	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Potassium	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Sodium	20,000	13,100	13,500	18,900	18,800	33,100	33,800	33,100	19,800	20,100	14,200	16,000	15,000	5,300	-	8,800	9,100
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vanadium	14 *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Zinc	<300 **	21	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	60	-	ND	ND
General Chemistry (mg/L)																	
Chromium, hexavalent	50	ND	12	71	68	ND	ND	ND	ND	ND	ND	ND	ND	NA ¹	ND	ND	ND
Cyanide, Total	200	ND	60	139	133	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND

Notes:
*: Class A Surface Water Standard
**: Site Specific Standard
-: Not Analyzed for
ND: Not Detected
NS: No Standard
¹ Sample re-analyzed for Hexavalent Chromium due to late delivery of sample to lab (outside hold time)

170

Exceeds Standard

Table 2

Liquid Waste Characterization Summary Results (POTW)

Table 2
Pretreatment Plant Liquid Waste Charazterization Data for POTW
Laboratory Analytical Results

Analyte	POTW Permit - Effluent Limitations - Instantaneous Maximum*	PTP AST	FRAC-1	FRAC-2	FRAC-3
VOCs/SVOCs (mg/L)		5/20/2015	10/14/2015	10/29/2015	10/14/2015
Acetone	NL	0.014	ND	0.11	ND
Benzene	0.1	ND	ND	ND	ND
2-Butanone (MEK)	NL	ND	ND	0.17	ND
Chloroform	1	ND	ND	ND	ND
Dimethyl Phthalate	NL	ND	ND	0.18	ND
Ethylbenzene	0.1	ND	ND	ND	ND
Methylene Chloride	1	ND	ND	ND	ND
Toluene	0.1	ND	ND	ND	ND
1,1,1-Trichloroethane	1	ND	ND	ND	ND
Xylenes, Total	0.1	ND	ND	ND	ND
Metals (mg/L)					
Aluminum	NL	60	ND	7.35	0.17
Antimony	10	0.053	ND	ND	ND
Arsenic	0.25	0.041	ND	ND	ND
Barium	NL	5.5	0.861	0.666	0.890
Beryllium	NL	0.0018	ND	ND	ND
Cadmium	0.25	0.17	ND	0.0132	ND
Calcium	500	600	25.3	19.9	25.9
Chromium	1,406,000 = 3.1 lb/day*	12	ND	0.501	0.021
Cobalt	NL	0.15	ND	ND	ND
Copper	1	0.38	ND	0.042	ND
Iron	50	230	0.63	20.0	1.10
Lead	0.8	1.3	ND	0.133	ND
Magnesium	NL	0.035	2.3	3.6	2.4
Manganese	5	3.4	0.012	0.214	0.015
Mercury	0.025	0.012	ND	ND	ND
Nickel	2.3	0.56	ND	ND	ND
Potassium	NL	9	ND	2.8	ND
Selenium	NL	0.012	ND	ND	ND
Silver	0.2	0.0063	ND	ND	ND
Sodium	NL	2.4	ND	9.9	ND
Thallium	NL	ND	ND	ND	ND
Vanadium	NL	3.6	ND	0.15	ND
Zinc	1.5	2.1	ND	0.077	ND
General Chemistry (mg/L)					
Ammonia	40	ND	ND	0.312	ND
pH	6.0 - 9.0	7.95	8.11	7.28	8.11
Phenolics, Total Recoverable	5	ND	0.0077	0.0068	0.0069
Chemical Oxygen Demand	NL	160	16.7	30.5	25.6
Chromium, hexavalent	NL	ND	ND	ND	ND
Cyanide, Total	3	0.04	ND	0.249	ND
Total Suspended Solids	NL	2,200	1.6	85.0	6.6
Sulfide	NL	ND	ND	ND	ND
Biological Oxygen Demand	NL	120** / 47H ¹	ND	2.8	2.6

Notes:

POTW Limitations based on Industrial Wastewater Permit No. 002E Effluent Limitations

NL - No limit

ND - Indicates the analyte was analyzed for but not detected

* - Chromium Limitation per day

** - LCS or LCSD is outside acceptable limits

H - Sample prepared outside holding time

1. Biochemical Oxygen Demand recovered low for LCS and LCSD. Sample PTP AST was reanalyzed outside of holding time, both sets of data have been reported.

LCS- Lab Control Sample

LCSD- Lab Control Sample Duplicate



Table 3

Liquid Waste Characterization Summary Results

Table 3
Pretreatment Plant Liquid Waste Characterization Results
Laboratory Analytical Results

Analyte	NYSDEC CLASS GA GROUNDWATER STANDARD	PTP AST	FRAC-1	FRAC-2	FRAC-3
VOCs/SVOCs (µg/L)		5/20/2015	10/14/2015	10/29/2015	10/14/2015
Acetone	50	14	ND	110	ND
Benzene	1	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	170	ND
Chloroform	7	ND	ND	ND	ND
Dimethyl Phthalate	50	ND	ND	180	ND
Ethylbenzene	5	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND
Metals (mg/L)					
Aluminum	2	60	ND	7.35	0.17
Antimony	0.01	0.053	ND	ND	ND
Arsenic	0.05	0.041	ND	ND	ND
Barium	2	5.5	0.861	0.666	0.890
Beryllium	0.003	0.0018	ND	ND	ND
Cadmium	0.01	0.17	ND	0.0132	ND
Calcium	NL	600	25.3	19.9	25.9
Chromium	0.1	12	ND	0.501	0.021
Cobalt	NL	0.15	ND	ND	ND
Copper	1	0.38	ND	0.042	ND
Iron	0.6	230	0.63	20	1.1
Lead	0.05	1.3	ND	0.133	ND
Magnesium	35	0.035	2.3	3.6	2.4
Manganese	1	3.4	0.012	0.214	0.015
Mercury	0.0014	0.012	ND	ND	ND
Nickel	0.2	0.56	ND	ND	ND
Potassium	NL	9	ND	2.8	ND
Selenium	0.02	0.012	ND	ND	ND
Silver	0.1	0.0063	ND	ND	ND
Sodium	20	2.4	ND	9.9	ND
Thallium	0.0005	ND	ND	ND	ND
Vanadium	NL	3.6	ND	0.15	ND
Zinc	5	2.1	ND	0.077	ND
General Chemistry (mg/L)					
Ammonia	NL	ND	ND	0.312	ND
pH	6.5-8.5	7.95	8.11	7.28	8.11
Phenolics, Total Recoverable	0.002	ND	0.0077	0.0068	0.0069
Chemical Oxygen Demand	NL	160	16.7	30.5	25.6
Chromium, hexavalent	0.05	ND	ND	ND	ND
Cyanide, Total	0.2	0.04	ND	0.249	ND
Total Suspended Solids	NL	2,200	1.6	85.0	6.6
Sulfide	1	ND	ND	ND	ND
Biological Oxygen Demand	NL	120* / 47H ¹	ND	2.8	2.6

Notes:

NL - No limit

ND - Indicates the analyte was analyzed for but not detected

*-LCS or LCSD is outside acceptance limits.

H - Sample prepared outside holding time

1. Biochemical Oxygen Demand recovered low for LCS and LCSD. Sample PTP AST was reanalyzed outside of holding time, both sets of data have been reported.

170

Exceeds Standard



Table 4

Solid Waste Characterization Summary Results

Table 4
Pretreatment Plant Solid Waste Characterization Results
Laboratory Analytical Results

Analyte	Maximum Concentration of Contaminants for the Toxicity Characteristic	WC-1	CHIPS-1	BOX-1	BOX-2
TCLP VOCs¹ (mg/L)		10/15/2015	10/30/2015	11/13/2015	11/13/2015
2-Butanone (MEK)	200	ND	0.23	-	-
VOCs (µg/Kg)					
2-Butanone (MEK)	NA	-	150	-	-
2-Hexanone	NA	-	180	-	-
4-Methyl-2-pentanone	NA	-	24	-	-
Acetone	NA	-	160	-	-
Benzene	NA	-	29	-	-
Ethylbenzene	NA	-	270	-	-
Styrene	NA	-	590	-	-
Toluene	NA	-	340	-	-
m,p-Xylenes	NA	-	550	-	-
o-Xylene	NA	-	220	-	-
TCLP Metals¹ (mg/L)					
Arsenic	5	ND	ND	-	-
Barium	100	12.5	4.3	-	-
Cadmium	1	0.28	0.15	-	-
Chromium	5	2.17	ND	-	-
Lead	5	0.4	0.49	-	-
Mercury	0.2	ND	ND	-	-
Selenium	1	ND	ND	-	-
Silver	5	ND	ND	-	-
TAL Metals (mg/kg)					
Aluminum	NA	24,900	1,120	-	-
Antimony	NA	49	43.2	-	-
Arsenic	NA	ND	1.6	-	-
Barium	NA	2,040	476	-	-
Beryllium	NA	ND	ND	-	-
Cadmium	NA	61.9	22.7	-	-
Calcium	NA	45,900	16,500	-	-
Chromium	NA	2,390	489	-	-
Cobalt	NA	63	61.3	-	-
Copper	NA	131	152	-	-
Iron	NA	81,200	133,000	-	-
Lead	NA	545	1,050	-	-
Magnesium	NA	15,200	190	-	-
Manganese	NA	819	479	-	-
Mercury	NA	8.62	6.30	-	-
Nickel	NA	239	92.6	-	-
Potassium	NA	2,700	ND	-	-
Selenium	NA	5.9	8.5	-	-
Silver	NA	ND	ND	-	-
Sodium	NA	730	210	-	-
Thallium	NA	ND	ND	-	-
Vanadium	NA	533	462	-	-
Zinc	NA	294	169	-	-
General Chemistry					
Chromium, Hexavalent (mg/Kg)	NA	ND	ND	-	-
Cyanide, Reactive (mg/Kg)	NA	ND	ND	-	-
Cyanide, Total (mg/Kg)	NA	23.8	45.5	-	-
Flash point (deg C)	NA	>100	>100	-	-
Paint filter (Free Liquids)	NA	Present	Absent	Absent	Absent
Phenolics, Total Recoverable (mg/Kg)	NA	ND	12.2	-	-
pH	NA	7.17	7.14	-	-
Sulfide, Reactive (mg/Kg)	NA	ND	ND	-	-
Total Solids (percent)	NA	17	72.9	-	-

Notes:

1. TCLP guidance value is the Maximum Concentration of Contaminations for Toxicity Characteristic based on 40 CFR 261.24

NA - Not Applicable

- Not analyzed for

ND - Indicates the analyte was analyzed for but not detected