GREENSTAR Engineering, P.C.

6 Gellatly Drive
Wappingers Falls, NY 12590
(845) 223-9944

LETTER OF TRANSMITTAL

TO Mr. Michael Resh
Head of Environmental
Linde, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

DATE: 04/30/09	JOB NO.: 150C265.1005
ATTENTION: Mr. Michael Resh, Manager	
RE: Bi-Annual 2008 Monitoring Event Letter	
Report, Site No. 932001, Airco Properties Inc.,	
Airco Parcel, Niagara Falls, New York	

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	DESCRIPTION
1	04/30/09	Second Bi-Annual 2008 Monitoring Event Letter, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York

THESE ARE TRANSMITTED as checked below:

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[ ] **FOR BIDS DUE** _____ 20__ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS Greenstar is pleased to provide you with the above listed document. Should you have any questions or comments regarding this report, please do not hesitate to contact me at (845) 223-9944.

COPY TO: M. Hinton, NYSDEC (1 copy)
M. Forcucci (NYSDOH) (1 copy)
Town of Niagara Falls, Town Clerk (1 copy)

SIGNED Charles E. McLeod, President

GREENSTAR Engineering, P.C.

6 Gellatly Drive
Wappingers Falls, NY 12590
(845) 223-9944

LETTER OF TRANSMITTAL

TO Mr. Michael Hinton
New York State Department of
Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, New York 14203

DATE: 04/30/09	JOB NO.: 150C265.1005
ATTENTION: Mr. Michael Hinton	
RE: Bi-Annual 2008 Monitoring Event Letter	
Report, Site No. 932001, Airco Properties Inc.,	
Airco Parcel, Niagara Falls, New York	

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

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COPIES	DATE	DESCRIPTION
1	04/30/09	Second Bi-Annual 2008 Monitoring Event Letter, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York

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REMARKS Greenstar is pleased to provide you with the above listed document. Should you have any questions or comments regarding this report, please do not hesitate to contact me at (845) 223-9944.

COPY TO: M. Resh, Linde (1 copy)
M. Forcucci (NYSDOH) (1 copy)
Town of Niagara Falls, Town Clerk (1 copy)

SIGNED C. E. McL
Charles E. McLeod, President

Bi-Annual 2008 Monitoring Event Letter Report For Site No. 932001 Airco Properties, Inc., Airco Parcel Niagara Falls, New York

Prepared for

Linde, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

Prepared by

Greenstar Engineering, PC
6 Gellatly Drive
Wappingers Falls, New York 12590
(845) 223-9944

April 2009
Revision: 0
Project No.: 150C265.1005

Greenstar Engineering, PC
6 Gellatly Drive
Wappingers Falls, NY 12590

30 April 2009

Mr. Michael Resh
Head of Environment
Linde North America, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

RE: Bi-Annual 2008 Monitoring Event Letter Report, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York
Greenstar Project No.: 150C265.1005

Dear Mr. Resh:

Greenstar Engineering, P.C. (Greenstar) is pleased to provide the second 2008 Bi-Annual Monitoring Event Letter Report summarizing the operation and maintenance activities which occurred from 1 July 2008 to 31 December 2008 at the above referenced site. The post-closure monitoring and facility maintenance program was initiated at the Airco Parcel located in Niagara Falls, New York, during December 2000. Post-closure monitoring and facility maintenance is required by New York State Solid Waste Management Facilities Regulations (6 NYCRR Part 360-2.15[k][4]) and stipulated in Order on Consent No. B9-0470-94-12. The purpose of this monitoring event letter report is to summarize the analytical results of the second bi-annual 2008 groundwater monitoring event that was conducted in September 2008, and to summarize operations and maintenance activities completed from July through December 2008.

OBJECTIVES

In accordance with the Revised Final Post-Closure Monitoring and Facility Maintenance Plan for the Airco Parcel, prepared by EA Engineering, PC and its affiliate EA Science and Technology (EA 2004)[1], environmental monitoring points will be maintained and sampled during the post-closure monitoring period, including the collection of appropriate groundwater, surface water, and groundwater collection treatment system (GCTS) samples. The Post-Closure Monitoring and Facility Maintenance Plan documents sampling locations, sampling parameters and analytical methods, in addition to other required maintenance activities, such as landfill cap inspections and the operations and maintenance plan for the GCTS. Following completion of the first five years of post-closure monitoring, the original Revised Final Post-Closure Monitoring and Facility Maintenance Plan, which was included as Appendix A in the Interim Remedial Measure Report (EA 2001a)[2], was re-evaluated and revised based on the data collected at the site so that the monitoring plan is more focused to address site-specific issues that were identified during the first five years of post-closure monitoring.

In accordance with the Revised Post-Closure Monitoring and Facility Maintenance Program the following activities are being completed:

1. EA Engineering, P.C. and its Affiliate EA Science and Technology. 2004. Revised Final Post-Closure Monitoring and Facility Maintenance Plan for the Airco Parcel, Niagara Falls, New York. September.
2. EA Engineering, P.C. and its Affiliate EA Science and Technology. 2001a. Interim Remedial Measure Report Documenting Closure of the Witmer Road Landfill, Niagara Falls, New York. Appendix A – Revised Final Post-Closure Monitoring and Facility Maintenance Plan. January.

- Environmental monitoring points are being maintained and sampled during the post-closure period.
- Bi-annual summary reports are submitted to the New York State Department of Environmental Conservation (NYSDEC) Division of Solid and Hazardous Materials, Region 9; the State of New York State Department of Health in Albany, New York; Linde, Inc.; and the document repository located at the Town of Niagara Town's Clerk's Office.
- Routine inspections are conducted of sediment ponds and the engineered wetlands to assess the presence of mosquito larvae.
- Drainage structures and ditches are maintained to prevent ponding of water and erosion of the landfill soil cap.
- Soil cover integrity, slopes, cover vegetation, drainage structures, and the perimeter road are maintained during the post-closure monitoring and maintenance period.
- A vegetative cover is maintained on all exposed final cover material, and adequate measures are taken to ensure the integrity of the final vegetated cover, topsoil layer, and underlying barrier protection layer.
- The GCTS is being operated and maintained to effectively mitigate the discharge of groundwater to surface water in the southwest corner of the Airco Parcel.
- Records are maintained of all sampling and analytical results.

The bi-annual sampling events are summarized in a letter report detailing the findings of the environmental sampling. Monitoring event letter reports are limited to documenting the results of each sampling round. This letter report summarizes the findings of the tenth bi-annual post-closure monitoring event completed at the Site, along with a summary of operation and maintenance activities performed from 1 July through 31 December 2008.

BACKGROUND

The Airco Parcel is part of the Vanadium Corporation of America site that is located in the Town of Niagara Falls, New York (Figure 1). The entire Vanadium site is approximately 150 acres in size, with the Airco Parcel encompassing approximately 25 acres. The 25-acre Airco parcel is the focus of this bi-annual sampling event letter report. The site contains waste material from the historic operation of onsite and nearby production facilities.

An Immediate Investigative Work Assignment (IIWA) investigation was conducted by NYSDEC for a portion of the 150-acre parcel in August 1997, and included investigation of approximately 70 acres of the Niagara Mohawk Power Corporation and New York Power Authority owned parcel. During the investigation, NYSDEC determined that the site had been used by Vanadium Corporation of America (the owners of the site from 1924 to 1964) to dispose of wood, brick, ash, lime slag, ferrochromium silicon slag, and ferrochromium silicon dust. Based on results of the IIWA investigation, it was determined that much of the surface material consisted of fill, including fly ash, dust, slag, and cinder materials.

Analytical results of groundwater samples collected at the site during the IIWA investigation indicated that surface water and groundwater standards were exceeded for hexavalent chromium and pH. Based on the results of the IIWA and other investigations, the Vanadium site, including the Airco Parcel, has been listed as a Class 2 Hazardous Waste Site in the New York State Registry of

Inactive Hazardous Waste Sites (Site No. 932001). A Class 2 listing indicates a significant threat to public health and the environment, and requires remedial action.

Remedial measures at the Airco Parcel were completed in 2000 when the landfill was capped as part of an Interim Remedial Measure (IRM) implemented at the Site. A complete description of the history of the site, and the construction details of the landfill capping system, can be found in the Interim Remedial Measure Report (EA 2001b)[3]. During construction of the capping system a relief pipe system was installed to allow perched water to exit from under the cap without causing slope instability. Flow monitoring and quarterly sampling were initiated as part of post-closure operations and facility maintenance. The data collected since December 2000 indicated that the leachate was actually shallow groundwater discharging to surface water. The data also indicated that the discharge of groundwater at the site was seasonal. The data further indicated that elevated hexavalent chromium (Cr^{6+}) concentrations and pH in groundwater, upon mixing with surface water, remained in excess of the ambient water quality criteria.

The IRM was augmented in 2003 with the design and implementation of the GCTS, which was determined to be necessary to meet the goals of the interim remedial measures program. The GCTS was designed to prevent the uncontrolled discharge of impacted groundwater from the Airco Parcel and includes pH adjustment via carbon dioxide aeration, settling for precipitate removal, oxidation/reduction via zero valence iron, and final clarification via an engineered wetland. The main portion of the GCTS is located at the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, sedimentation tanks, pump stations, zero valence iron reaction tanks, and an engineered wetland. An influent pump station is located at the southwest corner of the site.

MONITORING EVENT FIELD ACTIVITIES

Monitoring Well Gauging

The site monitoring wells, Figure 2, were gauged prior to sampling on 16 September 2008. The depth to water ranged from 5.01 ft below top of casing at MW-6B to 13.66 ft below top of casing at MW-4B. Gauging data are summarized in the table below:

Monitoring Well	Depth to Water (ft btoc)	Well Elevation (ft AMSL)	Water Elevation (ft AMSL)
MW-1B	12.99	617.77	604.78
MW-2B	13.60	615.88	602.28
MW-3B	11.10	611.22	600.12
MW-4B	13.66	606.68	593.02
MW-5B	11.19	605.48	594.29
MW-6B	5.01	603.47	598.46
MW-7B	12.26	609.48	597.22
MW-8B	8.00	611.62	603.62

NOTE: btoc = Below top of casing.
AMSL = Above mean sea level.

An interpretation of the water table surface is illustrated on Figure 3.

3. EA Engineering, Science, and Technology. 2001b. Interim Remedial Measure Report Documenting Closure of the Witmer Road Landfill, Niagara Falls, New York. January.

Groundwater Sampling Procedures

Monitoring wells were sampled on 16 September 2008. Seven of the eight groundwater samples were collected from the site monitoring wells. Monitoring well MW-4B was purge using a dedicated bailer and gauged the following day. There was insufficient well volume to collect a sample. Monitoring wells MW-3B, MW-5B and MW-8B were purged using dedicated bailers due to slow recharge and limited well volume. These wells were bailed dry and allowed to recharge prior to sample collection. Monitoring wells MW-1B, MW-2B, MW-6B, and MW-7B had adequate recharge rates for low flow sampling utilizing a peristaltic pump. Water quality readings were allowed to stabilize prior to sample collection. Surface water samples were collected from the drainage swales in the southwest corner. Two samples were collected from the eastern swale approximately 80 feet east of the pump station (SS-02) and from the confluence of the two swales where they discharge from the property (SS-01). Samples were submitted to TestAmerica Laboratories of Amherst, New York for analysis of phenolics by U.S. Environmental Protection Agency (EPA) Method 420.2, sulfate by EPA Method 375.3, ammonia (expressed as nitrogen) by EPA Method 350.2, and Target Analyte List metals by EPA Series 6010/6020, including hexavalent chromium.

Groundwater sampling results were compared to NYSDEC Ambient Water Quality Standards (AWQS) (NYSDEC 1999) and guidance values for Class GA waters. Class GA groundwater is used as a source of drinking water. Surface water samples were compared to NYSDEC AWQS for Class D surface waters. Class D waters are used for fishing but are not conducive to fish propagation. If no Class D standards were applicable for a particular compound, analytical results were compared to the more stringent Class C standards. Class C waters are suitable for fishing and fish propagation. Analytical results for groundwater and surface water are summarized on the table provided in Attachment A. Copies of the well gauging, purging, and sampling forms are provided in Attachment B. Laboratory chain of-custody records are provided in Attachment C. Laboratory analytical results for groundwater and surface water sampling are included in Attachment D.

ANALYTICAL RESULTS

Based on the analytical results collected during the Fourth Quarter 2000 and First Quarter 2001, NYSDEC approved a reduction in the sampling requirements. As per a letter to NYSDEC dated 5 June 2000, samples were analyzed for water quality parameters (ammonia, phenolics, and sulfate) and total (unfiltered) metals.

Summary tables listing analytical results compared to applicable NYSDEC AWQS are included in Attachment A, and a tag map illustrating analytical results is provided as Figure 4. Notable results of chemical analyses are as follows.

Metals

Unfiltered metals samples were collected from the 7 monitoring wells. Notable results included the following:

- Chromium, hexavalent chromium, iron, Lead, magnesium, manganese, selenium and sodium were detected in one or more of the groundwater samples at concentrations in excess of NYSDEC AWQS.
- Chromium was detected in excess of the NYSDEC AWQS in MW-2B and MW-8B at concentrations of 0.65 mg/L and 0.11 mg/L, respectively.

- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-2B, and MW-8B at concentrations of 0.197 mg/L and 0.066 mg/L, respectively.
- Iron was detected in excess of the NYSDEC AWQS in MW-2B, MW-3B, MW-5B, MW-7B and MW-8B at concentrations ranging from of 0.33 mg/L (MW-3B) to 29.8 mg/L (MW-5B).
- Lead was detected in excess of the NYSDEC AWQS in MW-5B at a concentration of 0.059 mg/L.
- Magnesium was detected in excess of the NYSDEC AWQS in MW-1B, MW-5B, MW-6B and MW-8B at concentrations ranging from 61 mg/L (MW-1B) to 105 mg/L (MW-5B).
- Manganese was detected in excess of the NYSDEC AWQS in MW-1B and MW-5B at concentrations of 0.70 mg/L and 0.67 mg/L, respectively.
- Selenium was detected in excess of the NYSDEC AWQS in MW-8B at a concentration of 0.03 mg/L.
- Sodium was detected in excess of the NYSDEC AWQS in all 7 monitoring wells at concentrations ranging from 31.5 mg/L (MW-5B) to 117 mg/L (MW-1B).

Unfiltered metals samples were collected from 2 surface water locations. No metals were detected at concentration above the NYSDEC AWQS for Class D surface waters

Water Quality Parameters

Water quality parameters, including pH, temperature, conductivity, dissolved oxygen, turbidity, and salinity, were collected in the field. In addition, water quality parameters, including ammonia (expressed as N), phenolics, and sulfate, were also analyzed by the laboratory. Notable results included the following:

- Phenolics were detected in excess of NYSDEC AWQS in MW-2B at a concentration of 0.015 mg/L and in the duplicate sample collected from MW-6B at a concentration of 0.008 mg/L. Phenolics were not detected in the primary sample from MW-6B.
- Sulfate was detected in excess of the NYSDEC AWQS in MW-6B and MW-8B at concentrations of 376 mg/L and 263 mg/L, respectively.
- pH measurements were measured outside the NYSDEC AWQS of 6.5-8.5 standard pH units in monitoring wells MW-1B (6.48), MW-2B (12.29), MW-3B (9.66) and MW-5B (5.61).

LANDFILL INSPECTION

Landfill cap inspections were conducted on 15 September and 21 October 2008. The Landfill Cap Inspection Checklists are provided as Attachment E. No deterioration, damage, or erosion to the landfill cap was noted during the engineering inspections. Drainage swales were predominantly clear.

GCTS OPERATIONS AND MAINTENANCE MONITORING ACTIVITIES

Routine operations and maintenance of the GCTS is preformed during site visits twice per month. Activities performed include data collection, cleaning and calibration of pH probes, cleaning of pressure transmitters, operational parameter adjustments based on observed site conditions, and general housekeeping tasks. The replacement of system components, including pumps, pressure transmitters, and pH probes is also scheduled and performed during the routine visits when practicable.

System Operations and Maintenance (July – December 2008)

The GCTS was operated throughout the 6-month period of 1 July – 31 December 2008. System monitoring was conducted throughout the operation period. Attachment G provides details of the problems encountered, and the implemented solutions.

During the report period, the GCTS operated for 4,416 hours (100 percent) and averaged 12.6 gpm. The GCTS sampling occurred bi-weekly during the operation period. Samples were collected at various locations within the system to evaluate treatment system performance and compliance with discharge criteria. Bi-weekly samples were collected from the system at the following locations: T3B after CO_2 aeration, after treatment via the zero valence iron tank T6B, after the engineered wetland (EWE), and where the drainage swale exits the site in the southwest corner, when accessible. The samples were analyzed in the field for total chromium and hexavalent chromium using a HACH DR4000® spectrophotometer. The HACH DR4000® spectrophotometer field method is EPA approved for reporting water and wastewater analyses within a detection limit of 0.006 and 0.005 mg/L for hexavalent chromium, and 0.003 mg/L for total chromium. The engineered wetland discharge samples were analyzed in the field as well as separate quarterly samples collected for off-site laboratory analysis at Test America Laboratories of Amherst, New York for a full list of discharge permit criteria.

Field sampling results for total and hexavalent chromium can be found in Table 1, and results of the quarterly engineered wetland discharge samples can be found in Table 2. Analytical results for the quarterly discharge sampling noted that no constituents exceeded the NYSDEC discharge guidance values for the September or December 2008 discharge sampling. The full set of laboratory analytical data for the GCTS discharge sampling can be found in Attachment F.

GCTS Modifications (July – December 2008)

No major modifications to the GCTS were performed during the report period. Only Routine operations and maintenance activities, including repairs to pumps, VFDs, pH probes, etc were performed. Attachment G summarizes monthly operation and maintenance details for the period July through December 2008, as well as provides proposed operation and maintenance projects and modification improvements to be implemented in the near future.

If you have any questions regarding the results of this Bi-Annual 2008 Monitoring Event Letter Report, please do not hesitate to contact Charles McLeod at (845) 223-9944.

Sincerely,

GREENSTAR ENGINEERING, P.C.

Charles E. McLeod, Jr., P.E.
President

CEM/cl
Attachments

cc: M. Hinton (NYSDEC)
M. Forcucci (NYSDOH)
Town of Niagara Falls (Town Clerk)

TABLE 1 SUMMARY OF GCTS FIELD SAMPLING RESULTS
1 JULY – 31 DECEMBER 2008, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

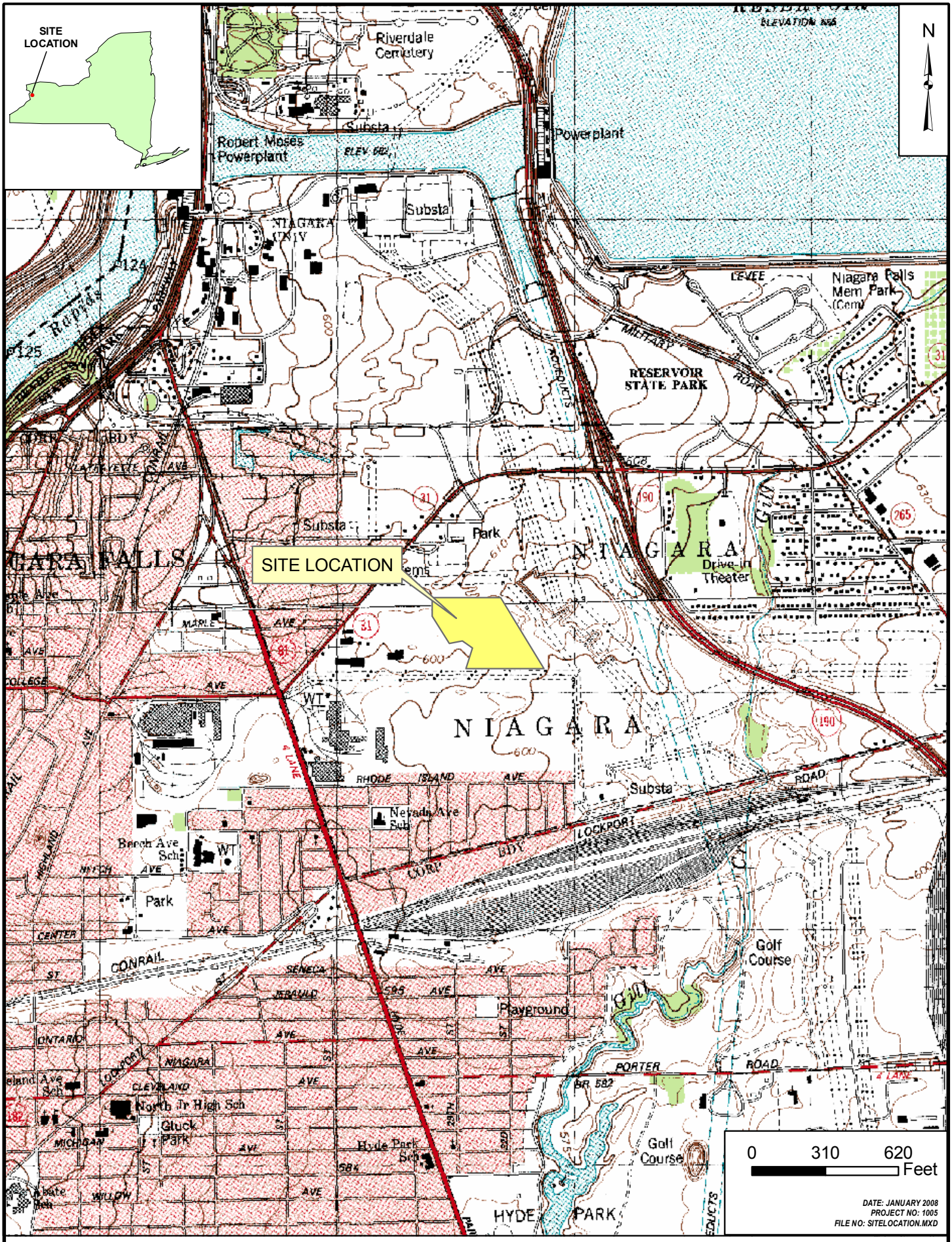
	Chromium Tank 3B		Iron Tank 6B		Engineered Wetland		Southwest Corner	
Date	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium
7/14/08	109 µg/L	95 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L
7/28/08	88 µg/L	88 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L
8/13/08	157 µg/L	19 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	28 µg/L	11 µg/L
8/27/08	76 µg/L	5 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	33 µg/L	11 µg/L
9/15/08	49 µg/L	23 µg/L	18 µg/L	<3U µg/L	5 µg/L	1 µg/L	13 µg/L	2 µg/L
9/25/08	59 µg/L	3 µg/L	<6U µg/L	4 µg/L	<6U µg/L	<3U µg/L	7 µg/L	7 µg/L
10/1/08	14 µg/L	1 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	4 µg/L	7 µg/L
10/21/08	96 µg/L	54 µg/L	<6U µg/L	2 µg/L	<6U µg/L	7 µg/L	12 µg/L	11 µg/L
11/3/08	115 µg/L	2 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	17 µg/L	8 µg/L
11/24/08	145 µg/L	21 µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L	<6U µg/L	<3U µg/L
12/2/08	172 µg/L	142 µg/L	24 µg/L	<3U µg/L	15 µg/L	<3U µg/L	18 µg/L	8 µg/L
12/16/08	163 µg/L	62 µg/L	17 µg/L	<3U µg/L	7 µg/L	<3U µg/L	NS-Ice	NS-Ice

NOTE: NS = Not Sampled
NS – Ice = Not Sampled due to winter weather conditions.
No results were in excess of SPDES discharge guidance values
Field samples analyzed using a HACH DR4000® Spectrophotometer.
Hach Methods 8023 for Hexavalent Chromium and Hach Method 8084 for Total Chromium.
* = Sampled collected and analyzed by Test America, Buffalo, NY

TABLE 2 SUMMARY OF QUARTERLY GCTS DISCHARGE SAMPLING 16 SEPTEMBER AND 2 DECEMBER 2008, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Parameter	16 September 2008	2 December 2008	New York State Department of Environmental Conservation Discharge Criteria
pH	7.80	7.91	6-8 s.u.
Total suspended solids	<10U	<10U	10 mg/L
Dissolved Oxygen	7.0	10.2	7 mg/L
Ammonia as N	<9.2U	<9.2U	9.2 mg/L
Total Kjeldahl nitrogen	5.9	<1.0U	Monitor (mg/L)
Total Recoverable Phenolics	<0.008U	<0.008U	.008 mg/L
Biochemical oxygen demand	<5U	<5U	5.0 mg/L
1,1-Dichloroethane	<5U	<5U	5.0 µg/L
Trichloroethene	<5U	<5U	5.0 µg/L
Nickel	<0.07U	<0.07U	0.07 mg/L
Copper	<0.0147U	<0.0147U	0.0147 mg/L
Barium	<2U	<2U	2 mg/L
Total chromium	<0.1U	<0.1U	0.1 mg/L
Hexavalent chromium	<0.011U	<0.011U	0.011 mg/L
Iron	<0.3U	<0.3U	0.3 mg/L
Selenium	<0.0046U	<0.0046U	0.0046 mg/L
Thallium	<0.004U	<0.004U	0.004 mg/L
Zinc	<0.115U	<0.115U	0.115 mg/L
Nitrate as N	3.0	<0.05U	Monitor (mg/L-N)
Nitrite as N	<0.05U	1.3	Monitor (mg/L-N)
Chemical oxygen demand	<40U	<40U	40 mg/L
Total dissolved solids	590	566	Monitor (mg/L)

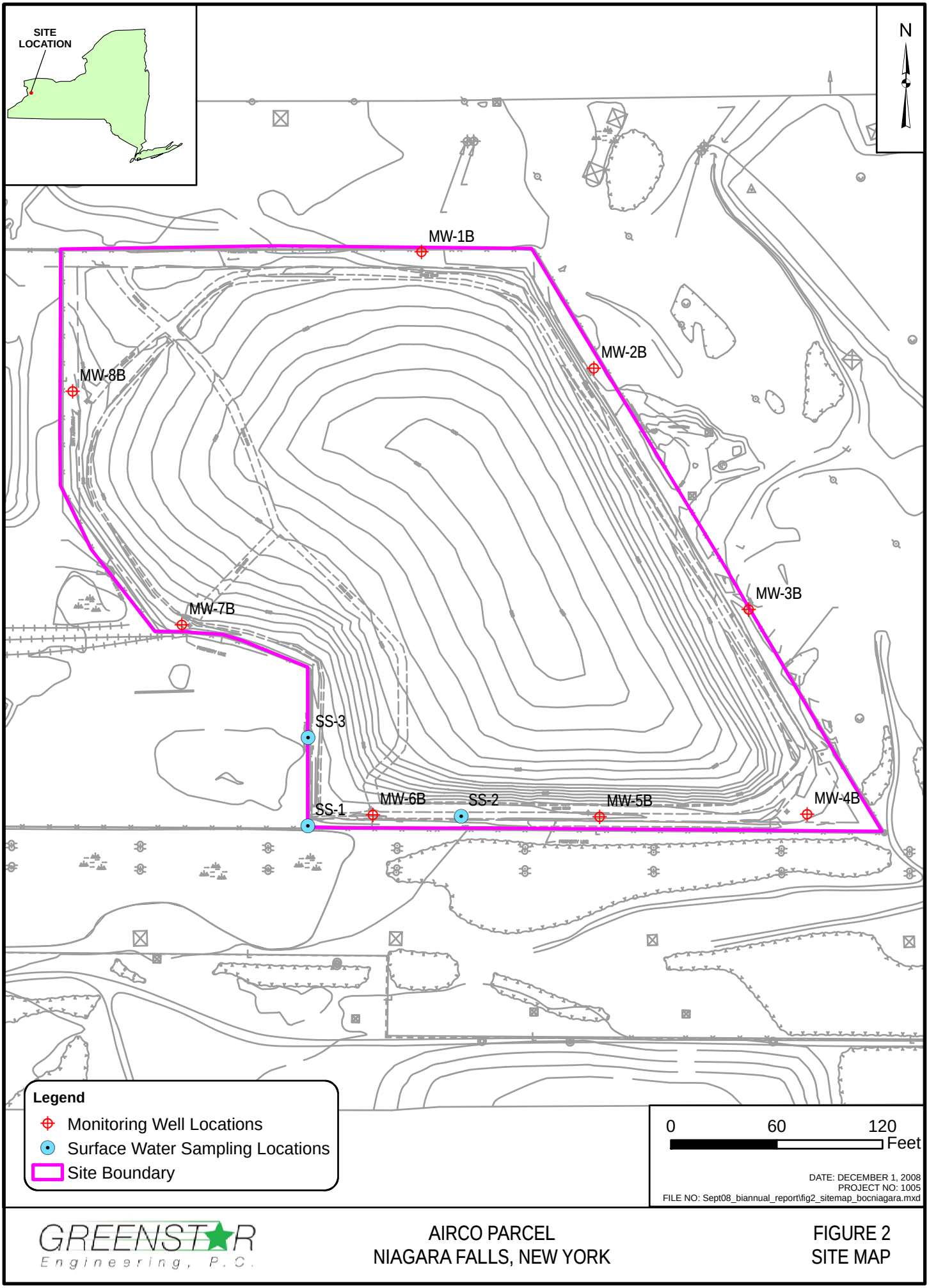
Notes: Values in **BOLD** exceed discharge guidance values



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

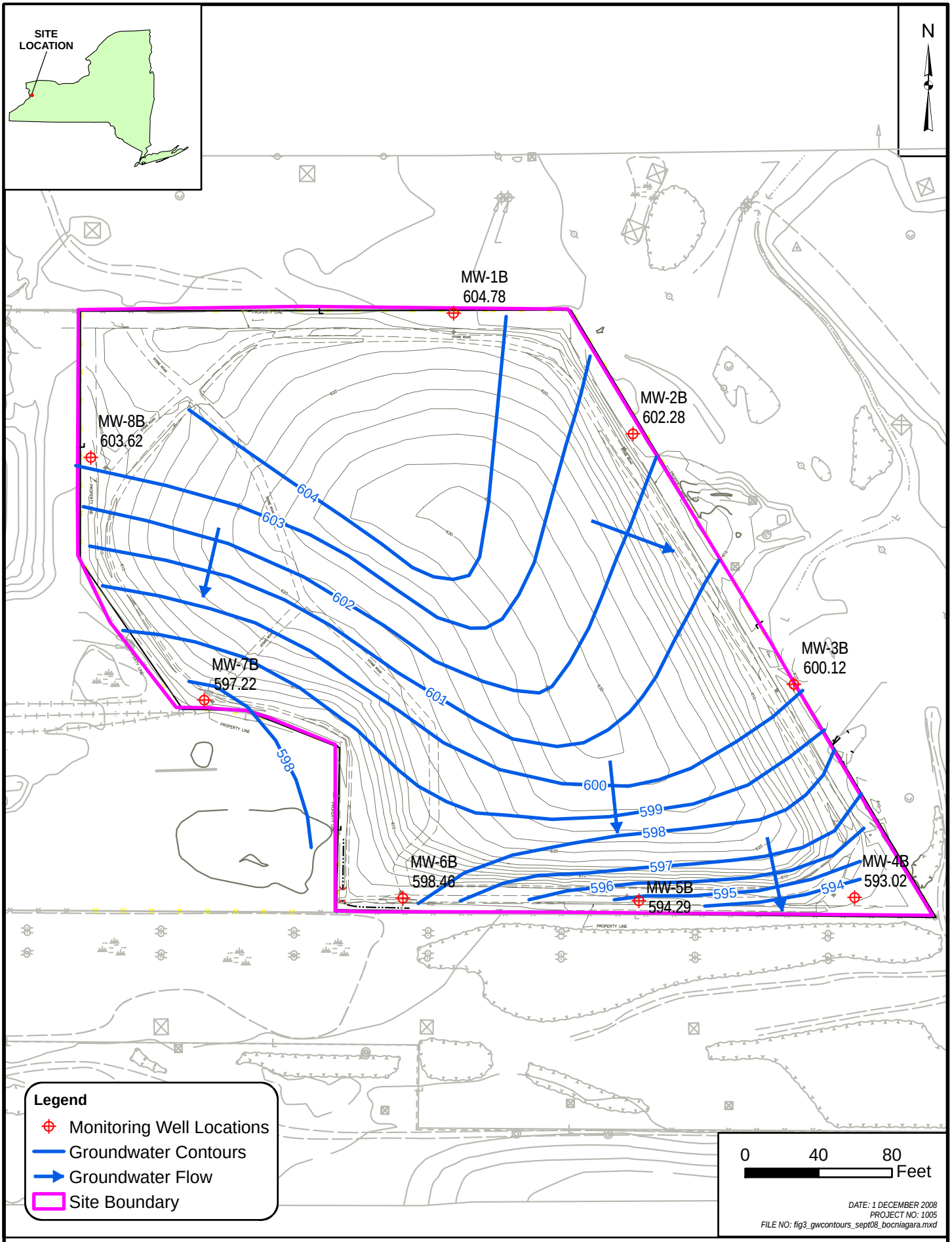
FIGURE 1
SITE LOCATION



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 2
SITE MAP



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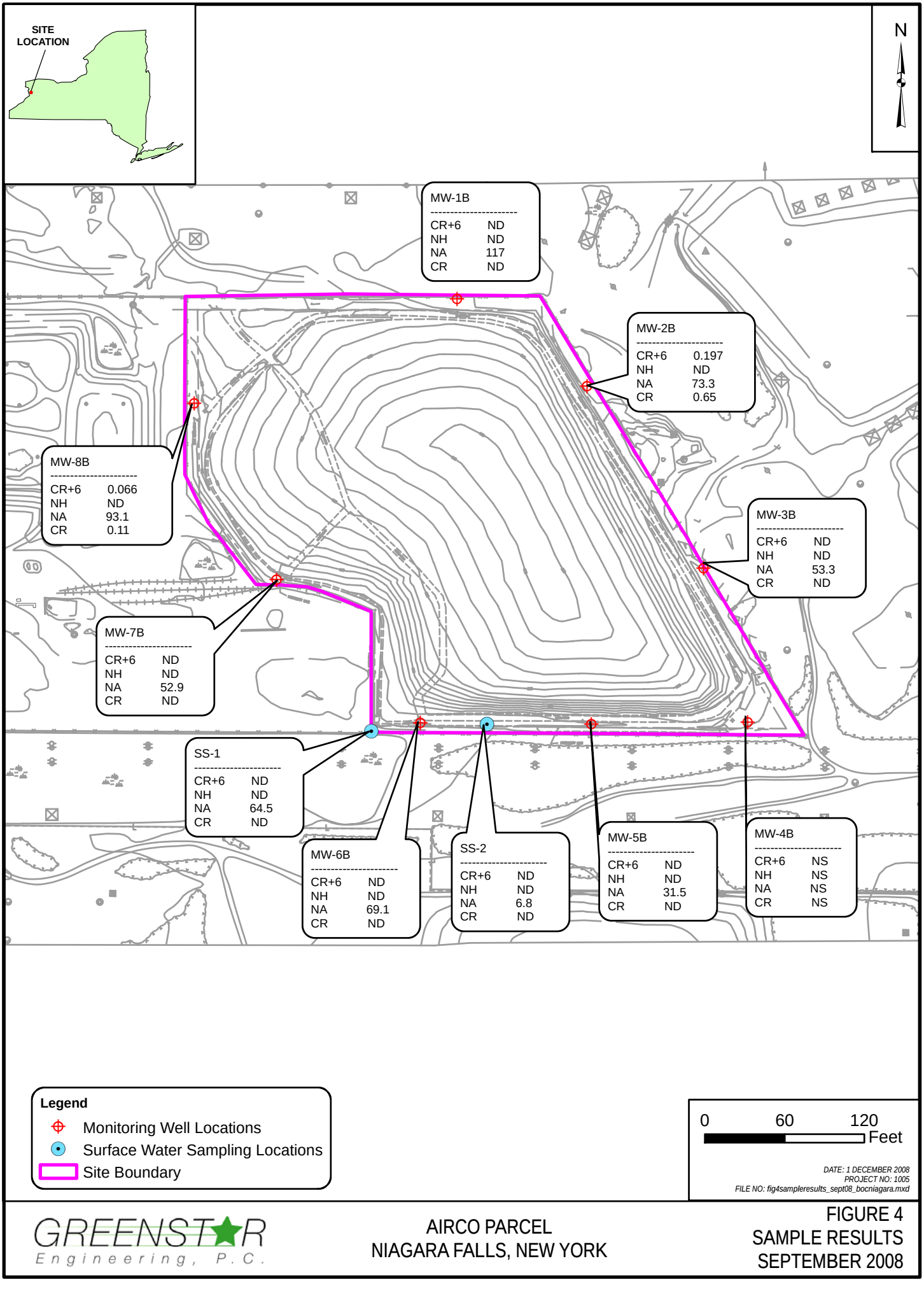
AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 3
GROUNDWATER CONTOURS
SEPTEMBER 2008



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AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 4
SAMPLE RESULTS
SEPTEMBER 2008

Attachment A

Summary of Analytical Results
Groundwater and Surface Water Samples
September 2008

ATTACHMENT A
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLES COLLECTED IN SEPTEMBER 2008,
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Groundwater

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		MW-1B	MW-2B	MW-3B	MW-5B	MW-6B	MW-6B (Dup)	MW-7B	MW-8B
Analyte	**AWQS**								
Cadmium	0.005	(<0.001U)	(<0.001U)	(<0.001U)	0.0022	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)
Chromium	0.05	(<0.004U)	**0.65**	(<0.004U)	0.04	(<0.004U)	(<0.004U)	0.028	**0.11**
Chromium, Hexavalent	0.05	(<0.011U)	**0.197**	(<0.011U)	(<0.011U)	(<0.011U)	(<0.011U)	(<0.011U)	**0.066**
Iron	0.3	0.15	**0.57**	**0.33**	**28.9**	0.27	0.25	**0.86**	**1.8**
Lead	0.025	(<0.005U)	(<0.005U)	(<0.005U)	**0.059**	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)
Magnesium	35*	**61**	0.21	7.7	**105**	**74.2**	**73.9**	7.4	**64.2**
Manganese	0.3	**0.7**	0.035	0.019	**0.67**	0.15	0.15	0.047	0.2
Selenium	0.01	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	**0.03**
Silica	---	6.9	1.7	7.7	22.1	7.1	5.9	5.1	9.1
Sodium	20	**117**	**73.3**	**53.3**	**31.5**	**69.1**	**68.4**	**52.9**	**93.1**
Zinc	2*	0.5	(<0.01U)	0.026	0.7	(<0.01U)	(<0.01U)	(<0.01U)	0.11

Water Quality Parameters (mg/L)

		MW-1B	MW-2B	MW-3B	MW-5B	MW-6B	MW-6B (Dup)	MW-7B	MW-8B
Analyte	**AWQS**								
Phenolics	0.001	(<0.008U)	**0.015**	(<0.008U)	(<0.008U)	(<0.008U)	**0.008**	(<0.008U)	(<0.008U)
Sulfate	250	223	17.1	51	145	**376**	**330**	34	**263**

Surface Water

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		SS-01	SS-02
Analyte	**AWQS**		
Cadmium	---	(<0.001U)	(<0.001U)
Chromium	---	(<0.004U)	(<0.004U)
Chromium, Hexavalent	0.016	(<0.011U)	(<0.011U)
Iron	0.3	0.1	0.1
Lead	---	(<0.005U)	(<0.005U)
Magnesium	---	3.8	15
Manganese	---	(<0.003U)	0.011
Selenium	0.0046	(<0.015U)	(<0.015U)
Silica	---	2.8	4.9
Sodium	---	64.5	6.8
Zinc	---	(<0.01U)	(<0.01U)

Water Quality Parameters (mg/L)

		SS-01	SS-02
Analyte	**AWQS**		
Phenolics	---	(<0.008U)	(<0.008U)
Sulfate	---	21.4	107

QA/QC

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		RB-01	SWB-01
Analyte	**AWQS**		
Cadmium	---	(<0.001U)	(<0.001U)
Chromium	---	(<0.004U)	(<0.004U)
Chromium, Hexavalent	---	(<0.011U)	(<0.011U)
Iron	---	(<0.05U)	(<0.05U)
Lead	---	(<0.005U)	(<0.005U)
Magnesium	---	1.2	1.2
Manganese	---	(<0.003U)	(<0.003U)
Selenium	---	(<0.015U)	(<0.015U)
Silica	---	6.7	6.5
Sodium	---	2	2.1
Zinc	---	(<0.01U)	(<0.01U)

Water Quality Parameters (mg/L)

		RB-01	SWB-01
Analyte	**AWQS**		
Phenolics	---	(<0.008U)	(<0.008U)
Sulfate	---	4.1	4.1

TABLE NOTES

AWQS	=	New York State Ambient Water Quality Standards and Guidance Values from Water Quality Regulations, Title 6, Chapter X Parts 700-706 August 1999.
*	=	Indicates guidance value.
U	=	Not detected. Sample quantitation limits shown as (<__U).
J	=	Estimated concentration.

Only those analytes detected in at least one of the samples is shown on this table.
Results shaded and in boldface indicate concentrations in excess of New York State Ambient Water Quality Standards or Guidance Values.

Analytical Methods for Water Quality Parameters

Ammonia (expressed as Nitrogen)	=	EPA 350.2
Phenolics	=	EPA 420.2
Silica	=	EPA 6010
Sulfate	=	EPA 375.3

Attachment B

Well Gauging, Purging, and Sampling Forms
September 2008

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW1B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:10	**Well Diameter (in):** 2"

Purge Date: 9/16/2008	**Purge Time:** 8:15
Purge Method: Peristaltic Pump	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 27.83	**D. Well Volume (ft3):** 0.32	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 12.99	**E. Well Volume (L)** 9.16	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 14.84		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
8:16	13.52	0.5	0.20	5.77	1.59	44.1	0.00	10.61	160
8:22	13.51	2	0.25	6.19	1.56	44.3	0.00	10.63	66
8:30	13.51	4	0.25	6.32	1.53	49.6	0.00	10.64	25
8:34	13.54	5	0.30	6.42	1.52	60.4	0.00	10.64	15
8:38	13.56	6	0.25	6.46	1.50	51.5	0.00	10.66	11
8:42	13.57	7	0.25	6.46	1.50	53.5	0.00	10.64	11
8:46	13.56	8	0.25	6.47	1.50	55.9	0.00	10.63	9
8:50	13.58	9	0.25	6.48	1.49	54.4	0.00	10.62	8

Total Quantity of Water Removed: ~ 9 L
Samplers: SB
Sampling Date: 16-Sep-08
Sampling Time: 8:55
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS:

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.:	Personnel:	Client:
AP-MW2B	Steve Bazilus	Linde, Inc.
Location:	**Well Condition:**	**Weather:**
Niagara Falls	Locked	Overcast & Breezy, 64°
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
WLI	9/15/2008	TOC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
UP	15:20	2"

Purge Date:	Purge Time:
9/16/2008	9:25
Purge Method:	**Greenstar Personnel:**
Pesistaltic Pump	SB

Well Volume

A. Well Depth (ft):	D. Well Volume (ft3):	Depth/Height of Top of PVC:
27.31	0.30	
B. Depth to Water (ft):	**E. Well Volume (L):**	**Pump Type:**
13.6	8.46	Peristaltic Pump
C. Liquid Depth (ft) (A-B):		**Pump Designation:**
13.71		

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
8:42	16.20	1	0.20	12.27	6.22	0.0	0.07	11.90	-129
8:47	17.77	2	0.20	12.28	6.23	0.0	0.06	11.95	-129
8:52	19.50	3	0.20	12.28	6.26	0.0	0.06	12.15	-129
8:57	20.44	4	0.20	12.29	6.25	0.0	0.12	12.27	-128
9:02	22.13	5	0.20	12.30	6.30	0.0	0.11	12.02	-128
9:07	23.21	6	0.20	12.29	6.25	0.0	0.07	12.04	-127

Total Quantity of Water Removed:	~ 6 L	**Sampling Time:**	9:12
Samplers:	SB	**Split Sample With:**	N/A
Sampling Date:	16-Sep-08	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Well damaged; major kink/hold-up in PVC; Replace?

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW3B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:25	**Well Diameter (in):** 2"

Purge Date: 9/15/2008	**Purge Time:** 15:30
Purge Method: Hand Bail	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 18.41	**D. Well Volume (ft3):** 0.16	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 11.1	**E. Well Volume (L):** 4.51	**Pump Type:** Dedicated hand bailer
C. Liquid Depth (ft) (A-B): 7.31		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
15:32	11.10	0.5	N/A	6.19	0.368	36.5	10.15	14.03	83
15:45	Dry	6	N/A	6.49	0.383	122.0	10.44	12.69	47
10:35	11.04	N/A	N/A	9.66	0.490	20.0	10.33	13.42	54

Total Quantity of Water Removed: ~ 6 L
Samplers: SB
Sampling Date: 16-Sep-08
Sampling Time: 10:44
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Well purged dry and sampled the following day.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW4B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:55	**Well Diameter (in):** 2"

Purge Date: 9/15/2008	**Purge Time:** 16:03
Purge Method: Hand Bail	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 15.08	**D. Well Volume (ft3):** 0.03	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 13.66	**E. Well Volume (L):** 0.88	**Pump Type:** Dedicated hand bailer
C. Liquid Depth (ft) (A-B): 1.42		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
16:03	Dry	1	N/A	6.57	0.800	> 999	10.40	13.25	-140
11:05	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Total Quantity of Water Removed: ~ 1 L
Samplers: SB
Sampling Date: NOT SAMPLED
Sampling Time: N/A
Split Sample With: N/A
Sample Type: N/A

COMMENTS AND OBSERVATIONS: 3 ft. bailer used, purge water was grey and odorous.
Well purged dry and gauged the following day; insufficent water column to sample (< 1L).
NO SAMPLE COLLECTED

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW5B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:08	**Well Diameter (in):** 2"

Purge Date: 9/15/2008	**Purge Time:** 17:05
Purge Method: Hand Bail	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 14.22	**D. Well Volume (ft3):** 0.07	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 11.19	**E. Well Volume (L):** 1.87	**Pump Type:** Dedicated hand bailer
C. Liquid Depth (ft) (A-B): 3.03		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
17:05	11.19	0.5	N/A	6.74	0.900	16.0	9.32	15.39	70
17:10	Dry	2.5	N/A	6.90	0.899	> 999	10.26	14.36	68
11:20	11.24	N/A	N/A	5.61	0.900	77.3	10.32	14.70	180

Total Quantity of Water Removed: ~ 2.5 L
Samplers: SB
Sampling Date: 16-Sep-08
Sampling Time: 11:20
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Well purged dry and sampled the following day.
1 foot bailer used.
pH probe was malfunctioning while collecting water quality parameters on this well.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW6B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 17:20	**Well Diameter (in):** 2"

Purge Date: 9/16/2008	**Purge Time:** 12:00
Purge Method: Peristaltic Pump	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 23.02	**D. Well Volume (ft3):** 0.39	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 5.01	**E. Well Volume (L):** 11.12	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 18.01		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
12:08	6.68	1	0.20	5.92	1.10	3.6	0.00	16.32	-70
12:13	7.61	2	0.20	6.16	1.09	7.4	0.00	16.54	-89
12:18	8.20	3	0.20	6.32	1.08	8.3	0.00	16.26	-93
12:23	9.40	4	0.20	6.48	1.09	11.9	0.00	16.13	-97
12:28	10.12	5	0.20	6.53	1.09	17.8	0.00	16.29	-98
12:33	10.65	6	0.20	6.59	1.09	19.1	0.00	16.24	-97
12:38	11.30	7	0.20	6.62	1.10	18.2	0.00	16.23	-97

Total Quantity of Water Removed:	~ 7 L	**Sampling Time:**	12:40
Samplers:	SB	**Split Sample With:**	AP-DUP-01
Sampling Date:	16-Sep-08	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: AP-DUP-01 collected from AP-MW-6B

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW7B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 17:25	**Well Diameter (in):** 2"

Purge Date: 9/16/2008	**Purge Time:** 13:20
Purge Method: Peristaltic Pump	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 21.79	**D. Well Volume (ft3):** 0.21	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 12.26	**E. Well Volume (L):** 5.88	**Pump Type:** Peristaltic Pump
C. Liquid Depth (ft) (A-B): 9.53		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
13:44	15.42	1	0.25	7.17	0.490	51.1	9.65	15.28	51
13:48	15.41	2	0.25	7.16	0.483	61.6	8.81	15.13	34
13:52	16.52	3	0.25	7.16	0.482	81.3	6.21	15.24	6
13:56	16.92	4	0.25	7.21	0.481	130.0	3.84	16.87	-4
14:00	18.20	5	0.25	7.23	0.489	60.4	7.81	13.96	-62
14:04	18.40	6	0.25	7.23	0.486	60.7	7.03	14.34	-80
14:08	18.33	7	0.25	7.23	0.487	61.3	7.08	14.33	-80
14:12	19.04	8	0.25	7.23	0.486	62.8	7.11	14.41	-86

Total Quantity of Water Removed:	~ 8 L	**Sampling Time:**	14:15
Samplers:	SB	**Split Sample With:**	N/A
Sampling Date:	16-Sep-08	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Almost ran dry; possibly hand bail next event depending on WL.

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW8B	**Personnel:** Steve Bazilus	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Overcast & Breezy, 64°
Sounding Method: WLI	**Gauge Date:** 9/15/2008	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:40	**Well Diameter (in):** 2"

Purge Date: 9/15/2008	**Purge Time:** 16:45
Purge Method: Hand Bail	**Greenstar Personnel:** SB

Well Volume

A. Well Depth (ft): 15.51	**D. Well Volume (ft3):** 0.16	**Depth/Height of Top of PVC:**
B. Depth to Water (ft): 8.00	**E. Well Volume (L):** 4.64	**Pump Type:** Dedicated hand bailer
C. Liquid Depth (ft) (A-B): 7.51		**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
17:51	8.00	0.5	N/A	6.88	0.999	70.9	9.09	15.47	93
18:00	Dry	5.5	N/A	7.08	0.999	> 999	9.25	13.91	95
14:45	7.88	N/A	N/A	6.92	1.13	140.0	10.34	16.67	155

Total Quantity of Water Removed:	~ 5.5 L	**Sampling Time:**	14:45
Samplers:	SB	**Split Sample With:**	N/A
Sampling Date:	16-Sep-08	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Well purged dry and sampled the following day.

Attachment C

Chain-of-Custody Records

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
GREENSTAR ENG. Chip McLeod	JRK	09/16/08	110928
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of ____
6 GELLATLY DRIVE	845-223-9944/9955		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WAPPINGERS FALLS / NY / 12590			
Project Name and Location (State)	**Carrier/Waybill Number**		
WITMER SEMI-ANNUAL GW MON. (NY)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: me	TSi	SO4	Cr+6 WD	Ammonia	TPHENOLS
AP-MW-1B	09/16/08	0855		X			1	2	2				X	X	X	X	X	X
AP-MW-2B		0912											X	X	X	X	X	X
AP-MW-3B		1044											X	X	X	X	X	X
AP-MW-[redacted]5B		1120											X	X	X	X	X	X
AP-MW-6B		1240											X	X	X	X	X	X
AP-MW-7B		1415											X	X	X	X	X	X
AP-MW-8B		1445											X	X	X	X	X	X
AP-DUP-01		N/A											X	X	X	X	X	X
AP-SWB-01		1450											X	X	X	X	X	X
AP-RB-01		1455											X	X	X	X	X	X
AP-SS-01		1410											X	X	X	X	X	X
AP-SS-02		1420											X	X	X	X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: S. Butler	09/16/08	1700	1. Received By: [redacted]	09/16/08	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ Cr+6 Samples Short Hold ★ 3@2.0°

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

77/105

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: GreenStar ENG. - Chip McLeod	Project Manager: JRK	Date: 09/16/08	Chain of Custody Number: 110925
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number:	Page 1 of 1
City: Wappingers Falls; State: NY; Zip Code: 12590	Site Contact:	Lab Contact:	
Project Name and Location (State): AIRCO - QUARTERLY DISCHARGE - SEP (NY)	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: dme	200.8	PPVOAS	TKN	Ammonia	COD	Nitrate	Nitrite	BOD	TSS	D.O./pH	CR+6 WQS	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-EWE-01	09/16/08	1410		X			4	2	1	2			X	X	X	X	X	X	X	XX	X	XX	XX	X	X	
TRIP BLANK	09/03/08	N/A		X						1					X											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: S. Brown	09/16/08	1655	1. Received By:	9/16/08	1655
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ CR+6 Analysis - Short Hold Time ★

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3020

54/54

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature	Site Name	Spec Request: AC	Site Location	Event Name
Charles McLeod		AIRCO Parcel	89242	Niagara Falls, NY	Quarterly Discharge Monitoring

TA Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	BOD, D.O., C, 16 WQ	Nitrate, Nitrite	PP VOAs, TKN	Total Metals	dme 200.8	Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)															
				INDICATE CONTAINER BY USING KEY BELOW															
	AP-EWE-01	12-2-08	0800	W	G				X			X		X	X	X	X	X	
																X			PP VOAs only
	TB-01	12-2-08	0800	X	X														

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Greenstar	12-2-08	1120		BUFFALO	12/02/08	1120
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key	Container Key	Preservstion Key
WW = Wastewater	1. Plastic	1. HCl, Cool to 4°
W = Water/Groundwater	2. VOA Vial	2. H_2SO_4, Cool to 4°
S = Solid	3. Sterile Plastic	3. HNO_3, Cool to 4°
Sl = Sludge	4. Amber Glass	4. NaOH, Cool to 4°
MS = Miscellaneous Solids	5. Widemouth Glass	5. NaOH/Zn Acetate, Cool to 4°
Ol = Oil	6. Other	6. Cool to 4°
A = Air		7. None
O = _____		

COMMENTS	Courier:
3.0°	Bill of Lading:

TAL-8219 (1207)

Attachment D

Laboratory Analytical Results for Groundwater and Surface Water Sampling September 2008

ANALYTICAL REPORT

Job#: A08-B300,A08-B302

Project#: NY5A9582
SDG#: B300
Site Name: Airco - Niagara Falls
Task: Airco Parcel, Niagara Falls

Charles E. McLeod, Jr.
Greenstar Engineering, PC
6 Gellatly Drive
Wappinger Falls, NY 12590

TestAmerica Laboratories Inc.

Jason R. Kacalski
Project Manager

10/02/2008

TestAmerica
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TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8B30001	AP-DUP-01	WATER	09/16/2008	00:00	09/16/2008	17:00
A8B30201	AP-DUP-01	WATER	09/16/2008	00:00	09/16/2008	17:00
A8B30002	AP-MW-1B	WATER	09/16/2008	08:55	09/16/2008	17:00
A8B30202	AP-MW-1B	WATER	09/16/2008	08:55	09/16/2008	17:00
A8B30003	AP-MW-2B	WATER	09/16/2008	09:12	09/16/2008	17:00
A8B30203	AP-MW-2B	WATER	09/16/2008	09:12	09/16/2008	17:00
A8B30004	AP-MW-3B	WATER	09/16/2008	10:44	09/16/2008	17:00
A8B30204	AP-MW-3B	WATER	09/16/2008	10:44	09/16/2008	17:00
A8B30005	AP-MW-5B	WATER	09/16/2008	11:20	09/16/2008	17:00
A8B30205	AP-MW-5B	WATER	09/16/2008	11:20	09/16/2008	17:00
A8B30006	AP-MW-6B	WATER	09/16/2008	12:40	09/16/2008	17:00
A8B30206	AP-MW-6B	WATER	09/16/2008	12:40	09/16/2008	17:00
A8B30007	AP-MW-7B	WATER	09/16/2008	14:15	09/16/2008	17:00
A8B30207	AP-MW-7B	WATER	09/16/2008	14:15	09/16/2008	17:00
A8B30008	AP-MW-8B	WATER	09/16/2008	14:45	09/16/2008	17:00
A8B30208	AP-MW-8B	WATER	09/16/2008	14:45	09/16/2008	17:00
A8B30009	AP-RB-01	WATER	09/16/2008	14:55	09/16/2008	17:00
A8B30209	AP-RB-01	WATER	09/16/2008	14:55	09/16/2008	17:00
A8B30010	AP-SS-01	WATER	09/16/2008	14:10	09/16/2008	17:00
A8B30210	AP-SS-01	WATER	09/16/2008	14:10	09/16/2008	17:00
A8B30011	AP-SS-02	WATER	09/16/2008	14:20	09/16/2008	17:00
A8B30211	AP-SS-02	WATER	09/16/2008	14:20	09/16/2008	17:00
A8B30012	AP-SWB-01	WATER	09/16/2008	14:50	09/16/2008	17:00
A8B30212	AP-SWB-01	WATER	09/16/2008	14:50	09/16/2008	17:00

METHODS SUMMARY

Job#: A08-B300,A08-B302

Project#: NY5A9582
SDG#: B300
Site Name: Airco - Niagara Falls

PARAMETER	ANALYTICAL METHOD		
Cadmium - Total	MCAWW	200.7	
Chromium - Total	MCAWW	200.7	
Iron - Total	MCAWW	200.7	
Lead - Total	MCAWW	200.7	
Magnesium - Total	MCAWW	200.7	
Manganese - Total	MCAWW	200.7	
Selenium - Total	MCAWW	200.7	
Silicon - Total	SW8463	6010	
Sodium - Total	MCAWW	200.7	
Thallium - Total	MCAWW	200.7	
Zinc - Total	MCAWW	200.7	
Ammonia	MCAWW	350.1	*
Hexavalent Chromium - Total	SW8463	7196A	
Sulfate	MCAWW	300.0	
Total Recoverable Phenolics	MCAWW	420.4	

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

* Ammonia and/or Fluoride were not distilled prior to analysis.

SDG NARRATIVE

Job#: A08-B300,A08-B302

Project#: NY5A9582
SDG#: B300
Site Name: Airco - Niagara Falls

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-B300
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.
A08-B302
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.

Metals Data

Silicon was subcontracted to TestAmerica Connecticut. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Silicon may be found within the comment summary of the subcontract report.

Wet Chemistry Data

The recovery of sample AP-MW-7B Matrix Spike exhibited results below the quality control limits for Hexachrome. However, the LCS was acceptable.

The values obtained for Sulfate on samples AP-DUP-01 and AP-SS-02 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
AP-DUP-01	A8B30001	Sulfate	5.00	008
AP-MW-1B	A8B30002	Sulfate	5.00	008
AP-MW-2B	A8B30003	Ammonia	2.00	008
AP-MW-5B	A8B30005	Sulfate	2.00	008
AP-MW-5B	A8B30005MS	Sulfate	2.00	008
AP-MW-6B	A8B30006	Sulfate	5.00	008
AP-MW-8B	A8B30008	Sulfate	5.00	008
AP-SS-02	A8B30011	Sulfate	2.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

Date: 10/02/2008 Requested Reporting Limits < Lab PQL Page: 1
Time: 15:09:01 Rept: AN1520

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Parameter	Unit	Client RL	Lab PQL
420.4	Total Recoverable Phenolics	UG/L	8.0	10

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-DUP-01
Lab Sample ID: A8B30001
Date Collected: 09/16/2008
Time Collected: 00:00

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/17/2008 23:23	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/17/2008 23:23	TWS
Iron - Total	0.25		0.050	MG/L	200.7	09/17/2008 23:23	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/17/2008 23:23	TWS
Magnesium - Total	73.9		0.20	MG/L	200.7	09/17/2008 23:23	TWS
Manganese - Total	0.15		0.0030	MG/L	200.7	09/17/2008 23:23	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/17/2008 23:23	TWS
Sodium - Total	68.4		1.0	MG/L	200.7	09/17/2008 23:23	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/17/2008 23:23	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/17/2008 23:23	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	330		10	MG/L	300.0	09/29/2008 17:20	BWM
Total Recoverable Phenolics	8.0		8.0	UG/L	420.4	09/18/2008 15:13	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-DUP-01
Lab Sample ID: A8B30201
Date Collected: 09/16/2008
Time Collected: 00:00

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	5.9		0.50000	MG/L	6010	09/23/2008 18:11	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-1B
Lab Sample ID: A8B30002
Date Collected: 09/16/2008
Time Collected: 08:55

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/17/2008 23:41	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/17/2008 23:41	TWS
Iron - Total	0.15		0.050	MG/L	200.7	09/17/2008 23:41	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/17/2008 23:41	TWS
Magnesium - Total	61.0		0.20	MG/L	200.7	09/17/2008 23:41	TWS
Manganese - Total	0.70		0.0030	MG/L	200.7	09/17/2008 23:41	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/17/2008 23:41	TWS
Sodium - Total	117		1.0	MG/L	200.7	09/17/2008 23:41	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/17/2008 23:41	TWS
Zinc - Total	0.50		0.010	MG/L	200.7	09/17/2008 23:41	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	223		10	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:48	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-1B
Lab Sample ID: A8B30202
Date Collected: 09/16/2008
Time Collected: 08:55

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	6.9		0.50000	MG/L	6010	09/23/2008 18:17	SUB

Sample ID: AP-MW-2B
Lab Sample ID: A8B30003
Date Collected: 09/16/2008
Time Collected: 09:12

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/17/2008 23:46	TWS
Chromium - Total	0.65		0.0040	MG/L	200.7	09/17/2008 23:46	TWS
Iron - Total	0.57		0.050	MG/L	200.7	09/17/2008 23:46	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/17/2008 23:46	TWS
Magnesium - Total	0.21		0.20	MG/L	200.7	09/17/2008 23:46	TWS
Manganese - Total	0.035		0.0030	MG/L	200.7	09/17/2008 23:46	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/17/2008 23:46	TWS
Sodium - Total	73.3		1.0	MG/L	200.7	09/17/2008 23:46	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/17/2008 23:46	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/17/2008 23:46	TWS
Wet Chemistry Analysis							
Ammonia	ND		18.4	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	197		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	17.1		2.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	15.0		8.0	UG/L	420.4	09/18/2008 15:40	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-2B
Lab Sample ID: A8B30203
Date Collected: 09/16/2008
Time Collected: 09:12

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	1.7		0.50000	MG/L	6010	09/23/2008 18:23	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-3B
Lab Sample ID: A8B30004
Date Collected: 09/16/2008
Time Collected: 10:44

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:13	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 00:13	TWS
Iron - Total	0.33		0.050	MG/L	200.7	09/18/2008 00:13	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:13	TWS
Magnesium - Total	7.7		0.20	MG/L	200.7	09/18/2008 00:13	TWS
Manganese - Total	0.019		0.0030	MG/L	200.7	09/18/2008 00:13	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:13	TWS
Sodium - Total	53.3		1.0	MG/L	200.7	09/18/2008 00:13	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:13	TWS
Zinc - Total	0.026		0.010	MG/L	200.7	09/18/2008 00:13	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	51.0		2.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:48	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-3B
Lab Sample ID: A8B30204
Date Collected: 09/16/2008
Time Collected: 10:44

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	7.7		0.50000	MG/L	6010	09/23/2008 18:28	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-5B
Lab Sample ID: A8B30005
Date Collected: 09/16/2008
Time Collected: 11:20

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	0.0022		0.0010	MG/L	200.7	09/18/2008 00:19	TWS
Chromium - Total	0.040		0.0040	MG/L	200.7	09/18/2008 00:19	TWS
Iron - Total	28.9		0.050	MG/L	200.7	09/18/2008 00:19	TWS
Lead - Total	0.059		0.0050	MG/L	200.7	09/18/2008 00:19	TWS
Magnesium - Total	105		0.20	MG/L	200.7	09/18/2008 00:19	TWS
Manganese - Total	0.67		0.0030	MG/L	200.7	09/18/2008 00:19	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:19	TWS
Sodium - Total	31.5		1.0	MG/L	200.7	09/18/2008 00:19	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:19	TWS
Zinc - Total	0.70		0.010	MG/L	200.7	09/18/2008 00:19	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	145		4.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:48	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-5B
Lab Sample ID: A8B30205
Date Collected: 09/16/2008
Time Collected: 11:20

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	22.1		0.50000	MG/L	6010	09/23/2008 18:34	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-6B
Lab Sample ID: A8B30006
Date Collected: 09/16/2008
Time Collected: 12:40

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:24	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 00:24	TWS
Iron - Total	0.27		0.050	MG/L	200.7	09/18/2008 00:24	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:24	TWS
Magnesium - Total	74.2		0.20	MG/L	200.7	09/18/2008 00:24	TWS
Manganese - Total	0.15		0.0030	MG/L	200.7	09/18/2008 00:24	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:24	TWS
Sodium - Total	69.1		1.0	MG/L	200.7	09/18/2008 00:24	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:24	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 00:24	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	376		10	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:54	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-6B
Lab Sample ID: A8B30206
Date Collected: 09/16/2008
Time Collected: 12:40

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	7.1		0.50000	MG/L	6010	09/23/2008 18:40	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-7B
Lab Sample ID: A8B30007
Date Collected: 09/16/2008
Time Collected: 14:15

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:29	TWS
Chromium - Total	0.028		0.0040	MG/L	200.7	09/18/2008 00:29	TWS
Iron - Total	0.86		0.050	MG/L	200.7	09/18/2008 00:29	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:29	TWS
Magnesium - Total	7.4		0.20	MG/L	200.7	09/18/2008 00:29	TWS
Manganese - Total	0.047		0.0030	MG/L	200.7	09/18/2008 00:29	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:29	TWS
Sodium - Total	52.9		1.0	MG/L	200.7	09/18/2008 00:29	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:29	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 00:29	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	34.0		2.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/23/2008 00:10	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-7B
Lab Sample ID: A8B30207
Date Collected: 09/16/2008
Time Collected: 14:15

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	5.1		0.50000	MG/L	6010	09/23/2008 18:46	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-8B
Lab Sample ID: A8B30008
Date Collected: 09/16/2008
Time Collected: 14:45

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:49	TWS
Chromium - Total	0.11		0.0040	MG/L	200.7	09/18/2008 00:49	TWS
Iron - Total	1.8		0.050	MG/L	200.7	09/18/2008 00:49	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:49	TWS
Magnesium - Total	64.2		0.20	MG/L	200.7	09/18/2008 00:49	TWS
Manganese - Total	0.20		0.0030	MG/L	200.7	09/18/2008 00:49	TWS
Selenium - Total	0.030		0.015	MG/L	200.7	09/18/2008 00:49	TWS
Sodium - Total	93.1		1.0	MG/L	200.7	09/18/2008 00:49	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:49	TWS
Zinc - Total	0.11		0.010	MG/L	200.7	09/18/2008 00:49	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	66.0		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	263		10	MG/L	300.0	09/24/2008 12:22	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:54	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-MW-8B
Lab Sample ID: A8B30208
Date Collected: 09/16/2008
Time Collected: 14:45

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	9.1		0.50000	MG/L	6010	09/23/2008 19:14	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-RB-01
Lab Sample ID: A8B30009
Date Collected: 09/16/2008
Time Collected: 14:55

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:54	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 00:54	TWS
Iron - Total	ND		0.050	MG/L	200.7	09/18/2008 00:54	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:54	TWS
Magnesium - Total	1.2		0.20	MG/L	200.7	09/18/2008 00:54	TWS
Manganese - Total	ND		0.0030	MG/L	200.7	09/18/2008 00:54	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:54	TWS
Sodium - Total	2.0		1.0	MG/L	200.7	09/18/2008 00:54	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:54	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 00:54	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	4.1		2.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:54	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-RB-01
Lab Sample ID: A8B30209
Date Collected: 09/16/2008
Time Collected: 14:55

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	6.7		0.50000	MG/L	6010	09/23/2008 19:20	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SS-01
Lab Sample ID: A8B30010
Date Collected: 09/16/2008
Time Collected: 14:10

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 00:59	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 00:59	TWS
Iron - Total	0.10		0.050	MG/L	200.7	09/18/2008 00:59	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 00:59	TWS
Magnesium - Total	3.8		0.20	MG/L	200.7	09/18/2008 00:59	TWS
Manganese - Total	ND		0.0030	MG/L	200.7	09/18/2008 00:59	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 00:59	TWS
Sodium - Total	64.5		1.0	MG/L	200.7	09/18/2008 00:59	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 00:59	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 00:59	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	21.4		2.0	MG/L	300.0	09/24/2008 12:22	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:54	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SS-01
Lab Sample ID: A8B30210
Date Collected: 09/16/2008
Time Collected: 14:10

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	2.8		0.50000	MG/L	6010	09/23/2008 18:51	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SS-02
Lab Sample ID: A8B30011
Date Collected: 09/16/2008
Time Collected: 14:20

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 01:05	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 01:05	TWS
Iron - Total	0.10		0.050	MG/L	200.7	09/18/2008 01:05	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 01:05	TWS
Magnesium - Total	15.0		0.20	MG/L	200.7	09/18/2008 01:05	TWS
Manganese - Total	0.011		0.0030	MG/L	200.7	09/18/2008 01:05	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 01:05	TWS
Sodium - Total	6.8		1.0	MG/L	200.7	09/18/2008 01:05	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 01:05	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 01:05	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	107		4.0	MG/L	300.0	09/29/2008 17:20	BWM
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 14:54	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SS-02
Lab Sample ID: A8B30211
Date Collected: 09/16/2008
Time Collected: 14:20

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	4.9		0.50000	MG/L	6010	09/23/2008 19:09	SUB

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SWB-01
Lab Sample ID: A8B30012
Date Collected: 09/16/2008
Time Collected: 14:50

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Cadmium - Total	ND		0.0010	MG/L	200.7	09/18/2008 01:10	TWS
Chromium - Total	ND		0.0040	MG/L	200.7	09/18/2008 01:10	TWS
Iron - Total	ND		0.050	MG/L	200.7	09/18/2008 01:10	TWS
Lead - Total	ND		0.0050	MG/L	200.7	09/18/2008 01:10	TWS
Magnesium - Total	1.2		0.20	MG/L	200.7	09/18/2008 01:10	TWS
Manganese - Total	ND		0.0030	MG/L	200.7	09/18/2008 01:10	TWS
Selenium - Total	ND		0.015	MG/L	200.7	09/18/2008 01:10	TWS
Sodium - Total	2.1		1.0	MG/L	200.7	09/18/2008 01:10	TWS
Thallium - Total	ND		0.020	MG/L	200.7	09/18/2008 01:10	TWS
Zinc - Total	ND		0.010	MG/L	200.7	09/18/2008 01:10	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Sulfate	4.1		2.0	MG/L	300.0	09/22/2008 14:30	AEG
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/18/2008 15:01	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (GW Monitoring)

Sample ID: AP-SWB-01
Lab Sample ID: A8B30212
Date Collected: 09/16/2008
Time Collected: 14:50

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silicon - Total	6.5		0.50000	MG/L	6010	09/25/2008 15:22	SUB

Batch Quality Control Data

Lab Sample ID: A8B03808 A8B03808MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0	0.114	0.100	114	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B15102 A8B15102MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
SM4110C - CHLORIDE, SOLUBLE BY IC - O.	MG/L	13.88	37.35	25.00	94	73-114

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B26002 A8B26002MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - FLUORIDE	MG/L	0	2.23	2.50	89	77-119

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B26005 A8B26005MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - FLUORIDE	MG/L	0.110	2.57	2.50	98	77-119

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B29302 A8B29302MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 420.4-TOTAL RECOVERABLE PHENOLI	MG/L	0.0370	0.175	0.100	138	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B29308 A8B29308MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/L	0	0.0250	0.0500	50 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30005 A8B30005MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	144.6	185.4	50.00	81	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30007 A8B30007MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	29.00	50.00	58 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30012 A8B30012MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	53.00	50.00	106	75-120
METHOD 300.0 - SULFATE BY IC	MG/L	4.09	31.02	25.00	108	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33003 A8B33003MS A8B33003SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
WET CHEMISTRY ANALYSIS												
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0.00950	0.108	0.0996	0.100	0.100	98	90	94	8	20.0	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33301 A8B33301MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	186.7	304.1	125.0	94	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33306 A8B33306MS A8B33306SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
WET CHEMISTRY ANALYSIS												
METHOD 300.0 - FLUORIDE	MG/L	0.170	2.41	2.58	2.50	2.50	90	96	93	6	20.0	77-119
METHOD 300.0 - SULFATE BY IC	MG/L	362.4	456.8	438.6	125.0	125.0	76	61 *	69	22 *	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33313 A8B33313MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	315.2	429.9	125.0	92	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33601 A8B33601MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
SM4110C - CHLORIDE, SOLUBLE BY IC - O.	MG/L	8.88	32.16	25.00	93	73-114

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B46505 A8B46505MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS NISOURCE - METHOD 300.0 - SULFATE	MG/L	1514	2593	1250	86	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B46513 A8B46513MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS NISOURCE - METHOD 300.0 - SULFATE	MG/L	1286	2410	1250	90	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B54510 A8B54510MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - FLUORIDE	MG/L	0.0900	0.330	0.250	96	77-119

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B62203 A8B62203MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - FLUORIDE	MG/L	0	0.260	0.250	104	77-119

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B62708 A8B62708MS A8B62708SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS												
SM4110C - TOTAL CHLORIDE BY IC - 0.50	MG/L	163.6	279.3	283.8	125.0	125.0	92	96	94	4	20.0	73-114

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID Job No Lab ID Sample Date		Method Blank A08-B300 A8B2244802							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Iron - Total	MG/L	ND	0.050	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Magnesium - Total	MG/L	ND	0.20	NA		NA		NA	
Manganese - Total	MG/L	ND	0.0030	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Sodium - Total	MG/L	ND	1.0	NA		NA		NA	
Thallium - Total	MG/L	ND	0.020	NA		NA		NA	
Zinc - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MBLK		MBLK		Method Blank		Method Blank	
Job No / Lab ID		A08-B300	A8B2257302	A08-B300	A8B2279302	A08-B300	A8B2244102	A08-B300	A8B2248802
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Recoverable Phenolics	UG/L	ND	8.0	ND	8.0	NA		NA	
Hexavalent Chromium - Total	UG/L	NA		NA		ND	11.0	NA	
Ammonia	MG/L-N	NA		NA		NA		ND	9.2

Client ID		Method Blank		Method Blank		Method Blank			
Job No / Lab ID		A08-B300	A8B2275602	A08-B300	A8B2290602	A08-B300	A8B2317002		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Sulfate	MG/L	ND	2.0	ND	2.0	ND	2.0	NA	

NA = Not Applicable ND = Not Detected

SDG: B300

Client Sample ID:	AP-MW-2B	AP-MW-2B	AP-MW-2B
Lab Sample ID:	A8B30003	A8B30003MS	A8B30003SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
8 BASELINE METALS												
200.7 TOTAL CADMIUM - W	MG/L	0.00003	0.197	0.193	0.200	0.200	99	97	98	2	20.0	70-130
200.7 TOTAL CHROMIUM - W	MG/L	0.648	0.859	0.844	0.200	0.200	106	98	102	8	20.0	70-130
200.7 TOTAL IRON	MG/L	0.571	10.53	10.34	10.0	10.0	100	98	99	2	20.0	70-130
200.7 TOTAL LEAD - W	MG/L	0.00203	0.199	0.196	0.200	0.200	98	97	98	1	20.0	70-130
TOTAL MAGNESIUM	MG/L	0.208	10.14	9.95	10.0	10.0	99	97	98	2	20.0	70-130
TOTAL MANGANESE	MG/L	0.0348	0.236	0.229	0.200	0.200	101	98	100	3	20.0	70-130
TOTAL SELENIUM	MG/L	0.00588	0.205	0.203	0.200	0.200	100	99	100	1	20.0	70-130
TOTAL SODIUM	MG/L	73.31	84.50	83.02	10.0	10.0	112	97	105	14	20.0	70-130
TOTAL THALLIUM	MG/L	0.00048	0.199	0.190	0.200	0.200	99	95	97	4	20.0	70-130
TOTAL ZINC	MG/L	0.00801	0.204	0.196	0.200	0.200	98	94	96	4	20.0	70-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: Method Blank LFB
Lab Sample ID: A8B2244802 A8B2244801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
8 BASELINE METALS					
200.7 TOTAL CADMIUM - W	MG/L	0.200	0.200	100	85-115
200.7 TOTAL CHROMIUM - W	MG/L	0.200	0.200	100	85-115
200.7 TOTAL IRON	MG/L	10.03	10.0	100	85-115
200.7 TOTAL LEAD - W	MG/L	0.202	0.200	101	85-115
TOTAL MAGNESIUM	MG/L	10.06	10.0	101	85-115
TOTAL MANGANESE	MG/L	0.200	0.200	100	85-115
TOTAL SELENIUM	MG/L	0.201	0.200	101	85-115
TOTAL SODIUM	MG/L	10.12	10.0	100	85-115
TOTAL THALLIUM	MG/L	0.196	0.200	98	85-115
TOTAL ZINC	MG/L	0.205	0.200	102	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: AP-MW-5B AP-MW-5B
Lab Sample ID: A8B30005 A8B30005MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	144.6	185.4	50.00	81	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: AP-MW-6B AP-MW-6B
Lab Sample ID: A8B30006 A8B30006MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.0701	0.249	0.200	90	54-150

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: AP-MW-7B AP-MW-7B
Lab Sample ID: A8B30007 A8B30007MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	29.00	50.00	58 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: AP-SWB-01 AP-SWB-01
Lab Sample ID: A8B30012 A8B30012MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	53.00	50.00	106	75-120
METHOD 300.0 - SULFATE BY IC	MG/L	4.09	31.02	25.00	108	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID:	MBLK	LCS
Lab Sample ID:	A8B2257302	A8B2257301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 420.4 - TOTAL RECOVERABLE PHENO	UG/L	1930	1720	112	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID:	MBLK	LCS
Lab Sample ID:	A8B2279302	A8B2279301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 420.4 - TOTAL RECOVERABLE PHENO	UG/L	1362	1720	79	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2244102 A8B2244101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	48.00	50.00	96	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2248802 A8B2248801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.763	0.750	102	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2275602 A8B2275601

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	20.34	20.00	102	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300

Client Sample ID:	Method Blank	LCS
Lab Sample ID:	A8B2290602	A8B2290601

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	20.07	20.00	100	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: B300
Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2317002 A8B2317001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 300.0 - SULFATE BY IC	MG/L	20.19	20.00	101	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B30001	AP-DUP-01	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/17 23:23	TWS	Y	WATER
A8B30201	AP-DUP-01	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08	09/16 17:00	NA		09/23 18:11	SUB	Y	WATER
A8B30002	AP-MW-1B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/17 23:41	TWS	Y	WATER
A8B30202	AP-MW-1B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 08:55	09/16 17:00	NA		09/23 18:17	SUB	Y	WATER
A8B30003	AP-MW-2B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/17 23:46	TWS	Y	WATER
A8B30203	AP-MW-2B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 09:12	09/16 17:00	NA		09/23 18:23	SUB	Y	WATER
A8B30004	AP-MW-3B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/18 00:13	TWS	Y	WATER
A8B30204	AP-MW-3B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 10:44	09/16 17:00	NA		09/23 18:28	SUB	Y	WATER
A8B30005	AP-MW-5B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B30005	AP-MW-5B	RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/18 00:19	TWS	Y	WATER
A8B30205	AP-MW-5B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 11:20	09/16 17:00	NA		09/23 18:34	SUB	Y	WATER
A8B30006	AP-MW-6B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/18 00:24	TWS	Y	WATER
A8B30206	AP-MW-6B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 12:40	09/16 17:00	NA		09/23 18:40	SUB	Y	WATER
A8B30007	AP-MW-7B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/18 00:29	TWS	Y	WATER
A8B30207	AP-MW-7B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:15	09/16 17:00	NA		09/23 18:46	SUB	Y	WATER
A8B30008	AP-MW-8B	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/18 00:49	TWS	Y	WATER
A8B30208	AP-MW-8B	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:45	09/16 17:00	NA		09/23 19:14	SUB	Y	WATER
A8B30009	AP-RB-01	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER

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NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B30009	AP-RB-01	RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/18 00:54	TWS	Y	WATER
A8B30209	AP-RB-01	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:55	09/16 17:00	NA		09/23 19:20	SUB	Y	WATER
A8B30010	AP-SS-01	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/18 00:59	TWS	Y	WATER
A8B30210	AP-SS-01	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:10	09/16 17:00	NA		09/23 18:51	SUB	Y	WATER
A8B30011	AP-SS-02	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/18 01:05	TWS	Y	WATER
A8B30211	AP-SS-02	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:20	09/16 17:00	NA		09/23 19:09	SUB	Y	WATER
A8B30012	AP-SWB-01	RECNY	Selenium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/18 01:10	TWS	Y	WATER
A8B30212	AP-SWB-01	RECNY	Silicon - Total	6010	1.0	0.05	L	09/16/08 14:50	09/16 17:00	NA		09/25 15:22	SUB	Y	WATER

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DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B224480Z	Method Blank	RECNY	Selenium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Lead - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Magnesium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Manganese - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Sodium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Cadmium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER
		RECNY	Thallium - Total	200.7	1.0	0.05	L	-	-	NA		09/17 22:45	TWS	Y	WATER

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AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B30001	AP-DUP-01	RECNY	Sulfate	300.0	5.0			09/16/08	09/16 17:00	NA		09/29 17:20	BWM	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08	09/16 17:00	NA		09/18 15:13	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30002	AP-MW-1B	RECNY	Sulfate	300.0	5.0			09/16/08 08:55	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 08:55	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 08:55	09/16 17:00	NA		09/18 14:48	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 08:55	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30003	AP-MW-2B	RECNY	Sulfate	300.0	1.0			09/16/08 09:12	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	2.0			09/16/08 09:12	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 09:12	09/16 17:00	NA		09/18 15:40	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 09:12	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30004	AP-MW-3B	RECNY	Sulfate	300.0	1.0			09/16/08 10:44	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 10:44	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 10:44	09/16 17:00	NA		09/18 14:48	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 10:44	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30005	AP-MW-5B	RECNY	Sulfate	300.0	2.0			09/16/08 11:20	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 11:20	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 11:20	09/16 17:00	NA		09/18 14:48	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 11:20	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30006	AP-MW-6B	RECNY	Sulfate	300.0	5.0			09/16/08 12:40	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 12:40	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 12:40	09/16 17:00	NA		09/18 14:54	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 12:40	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30007	AP-MW-7B	RECNY	Sulfate	300.0	1.0			09/16/08 14:15	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:15	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:15	09/16 17:00	NA		09/23 00:10	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:15	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30008	AP-MW-8B	RECNY	Sulfate	300.0	5.0			09/16/08 14:45	09/16 17:00	NA		09/24 12:22	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:45	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:45	09/16 17:00	NA		09/18 14:54	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:45	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30009	AP-RB-01	RECNY	Sulfate	300.0	1.0			09/16/08 14:55	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:55	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:55	09/16 17:00	NA		09/18 14:54	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:55	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30010	AP-SS-01	RECNY	Sulfate	300.0	1.0			09/16/08 14:10	09/16 17:00	NA		09/24 12:22	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:10	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:10	09/16 17:00	NA		09/18 14:54	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:10	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30011	AP-SS-02	RECNY	Sulfate	300.0	2.0			09/16/08 14:20	09/16 17:00	NA		09/29 17:20	BWM	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:20	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:20	09/16 17:00	NA		09/18 14:54	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:20	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER
A8B30012	AP-SWB-01	RECNY	Sulfate	300.0	1.0			09/16/08 14:50	09/16 17:00	NA		09/22 14:30	AEG	Y	WATER
		RECNY	Ammonia	350.1	1.0			09/16/08 14:50	09/16 17:00	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0			09/16/08 14:50	09/16 17:00	NA		09/18 15:01	KD	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	09/16/08 14:50	09/16 17:00	NA		09/16 21:30	RJP	Y	WATER

74105

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AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix

AH = Analysis Holding Time Met
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AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (GW MONITORING)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B2257302	MBLK	RECNY	Total Recoverable Phenolics	420.4	1.0			-	-	NA		09/18 14:01	KD	Y	WATER
A8B2279302	MBLK	RECNY	Total Recoverable Phenolics	420.4	1.0			-	-	NA		09/23 00:10	KD	Y	WATER
A8B2244102	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1	L	-	-	NA		09/16 21:30	RJP	Y	WATER
A8B2248802	Method Blank	RECNY	Ammonia	350.1	1.0			-	-	NA		09/17 11:07	ERK	Y	WATER
A8B2275602	Method Blank	RECNY	Sulfate	300.0	1.0			-	-	NA		09/22 14:30	AEG	Y	WATER
A8B2290602	Method Blank	RECNY	Sulfate	300.0	1.0			-	-	NA		09/24 12:22	AEG	Y	WATER
A8B2317002	Method Blank	RECNY	Sulfate	300.0	1.0			-	-	NA		09/29 17:20	BWM	Y	WATER

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Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
GREENSTAR ENG. Chip McLeod	JRK	09/16/08	110928
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of ____
6 GELLATLY DRIVE	845-223-9944/9955		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WAPPINGERS FALLS / NY / 12590			
Project Name and Location (State)	**Carrier/Waybill Number**		
WITMER SEMI-ANNUAL GW MON. (NY)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: me	TSi	SO4	Cr+6 WD	Ammonia	TPHENOLS
AP-MW-1B	09/16/08	0855		X			1	2	2				X	X	X	X	X	X
AP-MW-2B		0912											X	X	X	X	X	X
AP-MW-3B		1044											X	X	X	X	X	X
AP-MW-[redacted]5B		1120											X	X	X	X	X	X
AP-MW-6B		1240											X	X	X	X	X	X
AP-MW-7B		1415											X	X	X	X	X	X
AP-MW-8B		1445											X	X	X	X	X	X
AP-DUP-01		N/A											X	X	X	X	X	X
AP-SWB-01		1450											X	X	X	X	X	X
AP-RB-01		1455											X	X	X	X	X	X
AP-SS-01		1410											X	X	X	X	X	X
AP-SS-02		1420											X	X	X	X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: S. Butler	09/16/08	1700	1. Received By: [redacted]	09/16/08	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ Cr+6 Samples Short Hold ★ 3@2.0°

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

77/105

Appendix A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 220-6576-1

SDG Number: 220-6576

Job Description: Greenstar - A08-0302

For:
TestAmerica Laboratories, Inc.
10 Hazelwood Drive
Amherst, NY 14228-2298

Attention: Mr. Jason Kacalski

Designee for
Erin A Gaus
Project Manager I
erin.gaus@testamericainc.com
09/29/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
220-J6576-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Description	Lab Location	Method	Preparation Method
Matrix Water			
Metals (ICP)	TAL CT	SW846 6010B	
Preparation, Total Metals	TAL CT		SW846 3010A

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Method	Analyst	Analyst ID
SW846 6010B	Petronchak, Nestor	NP
SW846 6010B	Voytek, Joseph F	JFV

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-6576-1	AP-DUP-01	Water	09/16/2008 0000	09/18/2008 0938
220-6576-2	AP-MW-1B	Water	09/16/2008 0855	09/18/2008 0938
220-6576-3	AP-MW-2B	Water	09/16/2008 0912	09/18/2008 0938
220-6576-4	AP-MW-3B	Water	09/16/2008 1044	09/18/2008 0938
220-6576-5	AP-MW-5B	Water	09/16/2008 1120	09/18/2008 0938
220-6576-6	AP-MW-6B	Water	09/16/2008 1240	09/18/2008 0938
220-6576-7	AP-MW-7B	Water	09/16/2008 1415	09/18/2008 0938
220-6576-8	AP-MW-8B	Water	09/16/2008 1445	09/18/2008 0938
220-6576-9	AP-RB-01	Water	09/16/2008 1455	09/18/2008 0938
220-6576-10	AP-SS-01	Water	09/16/2008 1410	09/18/2008 0938
220-6576-11	AP-SS-02	Water	09/16/2008 1420	09/18/2008 0938
220-6576-12	AP-SWB-01	Water	09/16/2008 1450	09/18/2008 0938

SAMPLE RESULTS

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-DUP-01

Lab Sample ID: 220-6576-1
Client Matrix: Water

Date Sampled: 09/16/2008 0000
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-20256		Instrument ID:	TJA Trace ICAP
Preparation:	3010A	Prep Batch: 220-20161		Lab File ID:	W092308
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	09/23/2008 1811			Final Weight/Volume:	50 mL
Date Prepared:	09/19/2008 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	5900		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-1B

Lab Sample ID: 220-6576-2
Client Matrix: Water

Date Sampled: 09/16/2008 0855
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1817
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6900		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-2B

Lab Sample ID: 220-6576-3
Client Matrix: Water

Date Sampled: 09/16/2008 0912
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1823
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	1700		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-3B

Lab Sample ID: 220-6576-4
Client Matrix: Water

Date Sampled: 09/16/2008 1044
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-20256		Instrument ID:	TJA Trace ICAP
Preparation:	3010A	Prep Batch: 220-20161		Lab File ID:	W092308
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	09/23/2008 1828			Final Weight/Volume:	50 mL
Date Prepared:	09/19/2008 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	7700		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-5B

Lab Sample ID: 220-6576-5
Client Matrix: Water

Date Sampled: 09/16/2008 1120
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1834
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	22100		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-6B

Lab Sample ID: 220-6576-6
Client Matrix: Water

Date Sampled: 09/16/2008 1240
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1840
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	7100		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-7B

Lab Sample ID: 220-6576-7
Client Matrix: Water

Date Sampled: 09/16/2008 1415
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1846
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	5100		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-MW-8B

Lab Sample ID: 220-6576-8
Client Matrix: Water

Date Sampled: 09/16/2008 1445
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1914
Date Prepared: 09/19/2008 1659

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	9100		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-RB-01

Lab Sample ID: 220-6576-9
Client Matrix: Water

Date Sampled: 09/16/2008 1455
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1920
Date Prepared: 09/19/2008 1659

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6700		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-SS-01

Lab Sample ID: 220-6576-10
Client Matrix: Water

Date Sampled: 09/16/2008 1410
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-20256		Instrument ID:	TJA Trace ICAP
Preparation:	3010A	Prep Batch: 220-20161		Lab File ID:	W092308
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	09/23/2008 1851			Final Weight/Volume:	50 mL
Date Prepared:	09/19/2008 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	2800		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-SS-02

Lab Sample ID: 220-6576-11
Client Matrix: Water

Date Sampled: 09/16/2008 1420
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 09/23/2008 1909
Date Prepared: 09/19/2008 1517

Analysis Batch: 220-20256
Prep Batch: 220-20161

Instrument ID: TJA Trace ICAP
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	4900		100	500

Analytical Data

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Client Sample ID: AP-SWB-01

Lab Sample ID: 220-6576-12
Client Matrix: Water

Date Sampled: 09/16/2008 1450
Date Received: 09/18/2008 0938

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-20335		Instrument ID:	TJA Trace ICAP
Preparation:	3010A	Prep Batch: 220-20275		Lab File ID:	W092508
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	09/25/2008 1522			Final Weight/Volume:	50 mL
Date Prepared:	09/24/2008 1051				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6500		100	500

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Lab Section	Qualifier	Description
Metals		
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-20161					
LCS 220-20161/2-A	Lab Control Spike	T	Water	3010A	
MB 220-20161/1-A	Method Blank	T	Water	3010A	
220-6576-1	AP-DUP-01	T	Water	3010A	
220-6576-2	AP-MW-1B	T	Water	3010A	
220-6576-3	AP-MW-2B	T	Water	3010A	
220-6576-4	AP-MW-3B	T	Water	3010A	
220-6576-5	AP-MW-5B	T	Water	3010A	
220-6576-6	AP-MW-6B	T	Water	3010A	
220-6576-7	AP-MW-7B	T	Water	3010A	
220-6576-8	AP-MW-8B	T	Water	3010A	
220-6576-9	AP-RB-01	T	Water	3010A	
220-6576-10	AP-SS-01	T	Water	3010A	
220-6576-11	AP-SS-02	T	Water	3010A	
Analysis Batch:220-20256					
LCS 220-20161/2-A	Lab Control Spike	T	Water	6010B	220-20161
MB 220-20161/1-A	Method Blank	T	Water	6010B	220-20161
220-6576-1	AP-DUP-01	T	Water	6010B	220-20161
220-6576-2	AP-MW-1B	T	Water	6010B	220-20161
220-6576-3	AP-MW-2B	T	Water	6010B	220-20161
220-6576-4	AP-MW-3B	T	Water	6010B	220-20161
220-6576-5	AP-MW-5B	T	Water	6010B	220-20161
220-6576-6	AP-MW-6B	T	Water	6010B	220-20161
220-6576-7	AP-MW-7B	T	Water	6010B	220-20161
220-6576-8	AP-MW-8B	T	Water	6010B	220-20161
220-6576-9	AP-RB-01	T	Water	6010B	220-20161
220-6576-10	AP-SS-01	T	Water	6010B	220-20161
220-6576-11	AP-SS-02	T	Water	6010B	220-20161
Prep Batch: 220-20275					
LCS 220-20275/2-A	Lab Control Spike	T	Water	3010A	
MB 220-20275/1-A	Method Blank	T	Water	3010A	
220-6576-12	AP-SWB-01	T	Water	3010A	
Analysis Batch:220-20335					
LCS 220-20275/2-A	Lab Control Spike	T	Water	6010B	220-20275
MB 220-20275/1-A	Method Blank	T	Water	6010B	220-20275
220-6576-12	AP-SWB-01	T	Water	6010B	220-20275

Report Basis
T = Total

Quality Control Results

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Method Blank - Batch: 220-20161

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-20161/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/23/2008 1402
Date Prepared: 09/19/2008 1514

Analysis Batch: 220-20256
Prep Batch: 220-20161
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W092308
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Si	500	U	100	500

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
Sdg Number: 220-6576

Method Blank - Batch: 220-20275

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-20275/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/25/2008 1348
Date Prepared: 09/24/2008 1051

Analysis Batch: 220-20335
Prep Batch: 220-20275
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W092508
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Si	500	U	100	500

Calculations are performed before rounding to avoid round-off errors in calculated results.

Date: 09/17/2008
Time: 08:38:36

TestAmerica Laboratories Inc.
Internal Chain of Custody

6576

Client: Greenstar Environmental Solutions, LLC
Project: NY5A9582
Quote: NY05-605
SM #: 621

PM: Jason R. Kacalski
Due Date: 09/27/2008
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
AP-DUP-01 (1)	A8B30201	WATER	T SI	1-8ozP	09/16/2008 00:00
AP-MW-1B (2)	A8B30202	WATER	T SI	1-8ozP	09/16/2008 08:55
AP-MW-2B (3)	A8B30203	WATER	T SI	1-8ozP	09/16/2008 09:12
AP-MW-3B (4)	A8B30204	WATER	T SI	1-8ozP	09/16/2008 10:44
AP-MW-5B (5)	A8B30205	WATER	T SI	1-8ozP	09/16/2008 11:20
AP-MW-6B (6)	A8B30206	WATER	T SI	1-8ozP	09/16/2008 12:40
AP-MW-7B (7)	A8B30207	WATER	T SI	1-8ozP	09/16/2008 14:15
AP-MW-8B (8)	A8B30208	WATER	T SI	1-8ozP	09/16/2008 14:45
AP-RB-01 (9)	A8B30209	WATER	T SI	1-8ozP	09/16/2008 14:55
AP-SS-01 (10)	A8B30210	WATER	T SI	1-8ozP	09/16/2008 14:10
AP-SS-02 (11)	A8B30211	WATER	T SI	1-8ozP	09/16/2008 14:20
AP-SWB-01 (12)	A8B30212	WATER	T SI	1-8ozP	09/16/2008 14:50

Relinquished by TestAmerica Laboratories Inc.: Signature(s)	Date	Time	Received By TestAmerica - CT (Shelton): Signature(s)	Date	Time
(1)	9/17/2008	1700	(3)	9/18/2008	938
(2)	/ /20		(4)	/ /20	

PASSED RAD SCREEN 3.4uC

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number:

Client:

Client Project:

Lab Number	Preservative	pH	Adjustment (mLs)	pH after Adjustment	Preservative Lot Number	Chlorine Residual	Initials	Date
65576 - 01	HNO3	<2	N/A	N/A	N/A	N/A	KB	9/18/08
02		<2						
03		<2						
04		<2						
05		<2						
06		<2						
07		<2						
08		<2						
09		<2						
10		<2						
11		<2						
65576 - 12		<2						

Page 25 of 27

KB 9/18/08

09/29/2008

TestAmerica Form# SMF00206.CT

TestAmerica - Connecticut
Internal Chain-of-Custody

220-6576
TA Buffalo - workshare

Trip Blank: —

QC: — Air: —

FB: —

Soil: — Water: 1-12

Date Received: 9/18/08

Sample #s: 1-12

Locations: 91B

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
12	KB	BC	9-24	930	Mtl	BC	KB	9/24	1400
1-11	fmd	BC	9/19	1000	Mtl	BC	fmd	9/19	1400

TestAmerica Form# SMF00508.CT

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc.

Job Number: 220-6576-1
SDG Number: 220-6576

Login Number: 6576
Creator: Blocker, Kristina
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
There are no discrepancies between the sample IDs on the containers 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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Attachment E

Landfill Cap Inspection Checklists
September and October 2008

LANDFILL CAP INSPECTION CHECKLIST
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Personnel:	Bruce Vinal - Greenstar Engineering, PC,
Date:	3rd Quarter Inspection (15 September 2008)
Weather:	Overcast, 65 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):**
   None noted.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:**
   No ponded water noted. Area adjacent to treatment system where excess soil was spread has been seeded and no erosion noted

3. **Identification of stressed vegetation:**
   Reconfigured drainage swale in southwest corner: Due to dry conditions, seed over the disturbed area has not done well. Recommend scarifying, adding topsoil, and reseeding in the spring of 2009

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
   Rooted vegetation noted in the drainage swales at the cap perimeter. These will be removed concurrent with the October mowing.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
   Monitoring wells were not sanded, primed and painted concurrent with the October 2008 GCTS upgrades due to schedule constraints. This will occur in the Spring-Summer of 2009.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
   The reconfigured swale in the southwest corner appears to be working as designed; it is currently free of any vegetation and shows no signs of erosion. All other drainage swales and structures are in good shape.

7. **Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:**
   None noted.

8. **Inspection of access roads:**
   Roads are almost impassible. Will mow and scarify the roads to try to limit the vegetation growth. This will be done in October 2008.

LANDFILL CAP INSPECTION CHECKLIST
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Personnel:	Bruce Vinal - Greenstar Engineering, PC
Date:	4th Quarter Inspection (21 October 2008)
Weather:	Rain/snow showers, 40 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):**
   None noted.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:**
   None noted.

3. **Identification of stressed vegetation:**
   None noted. Cap mowing completed during the October mowing event.
   South east corner: Excess soil from grading work on southwest corner has been spread and seeded. The seed has done well and no erosion has been noted.

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
   All rooted vegetation previously identified was removed during October 2008. The landfill cap and perimeter of the site was mowed.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
   Monitoring wells should be sanded, primed and painted. This will be done in the Spring of 2009.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
   No drainage issues noted.

7. **Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:**
   None noted.

8. **Inspection of access roads:**
   Access road were mowed, and scarified to remove vegetation.

Attachment F

Laboratory Analytical Results for GCTS Discharge Sampling September and December 2008

ANALYTICAL REPORT

Job#: A08-B299

Project#: NY5A9582
Site Name: Airco - Niagara Falls
Task: Airco Parcel, Niagara Falls

Charles E. McLeod, Jr.
Greenstar Engineering, PC
6 Gellatly Drive
Wappinger Falls, NY 12590

TestAmerica Laboratories Inc.

Jason R. Kacalski
Project Manager

09/26/2008

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TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8B29901	AP-EWE-01	WATER	09/16/2008	14:10	09/16/2008	16:55
A8B29902	TRIP BLANK	WATER	09/16/2008	00:00	09/16/2008	16:55

METHODS SUMMARY

Job#: A08-B299

Project#: NY5A9582
Site Name: Airco - Niagara Falls

PARAMETER	ANALYTICAL METHOD		
METHOD 624 - PRIORITY POLLUTANT VOLATILES	CFR136	624	
Barium - Total	MCAWW	200.7	
Chromium - Total	MCAWW	200.7	
Copper - Total	MCAWW	200.7	
Iron - Total	MCAWW	200.7	
Nickel - Total	MCAWW	200.7	
Selenium - Total	MCAWW	200.8	
Thallium - Total	MCAWW	200.8	
Zinc - Total	MCAWW	200.7	
Ammonia	MCAWW	350.1	*
Biochemical Oxygen Demand	SM20	5210B	
Chemical Oxygen Demand	MCAWW	410.4	
Dissolved Oxygen	SM20	4500-O G	
Hexavalent Chromium - Total	SW8463	7196A	
Nitrite	MCAWW	353.2	
Nitrogen, Nitrate	MCAWW	353.2	
pH	SW8463	9040	
Total Dissolved Solids	SM20	2540C	
Total Kjeldahl Nitrogen	MCAWW	351.2	
Total Recoverable Phenolics	MCAWW	420.4	
Total Suspended Solids	SM20	2540D	

References:

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

* Ammonia and/or Fluoride were not distilled prior to analysis.

SDG NARRATIVE

Job#: A08-B299

Project#: NY5A9582
Site Name: Airco - Niagara Falls

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-B299
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

For method 8260, sample TRIP BLANK was analyzed with headspace. The volatile organic results may be biased low.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

The opening continuing calibration cerification for Biochemical Oxygen Demand failed low for sample AP-EWE-01. All other quality controls were within acceptance limits.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Parameter	Unit	Client RL	Lab PQL
Wet Chemistry				
2540C	Total Dissolved Solids	MG/L	1.0	10
420.4	Total Recoverable Phenolics	UG/L	8.0	10

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Airco - Niagara Falls
Airco Parcel, Niagara Falls (Discharge)

Sample ID: AP-EWE-01
Lab Sample ID: A8B29901
Date Collected: 09/16/2008
Time Collected: 14:10

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
AQUEOUS-CFR136 624 - SELECT COMPOUNDS							
1,1-Dichloroethane	ND		5.0	UG/L	624	09/17/2008 02:30	MF
Trichloroethene	ND		5.0	UG/L	624	09/17/2008 02:30	MF
Metals Analysis							
Barium - Total	ND		2000	UG/L	200.7	09/18/2008 21:32	SW
Chromium - Total	ND		100	UG/L	200.7	09/18/2008 21:32	SW
Copper - Total	ND		14.7	UG/L	200.7	09/18/2008 21:32	SW
Iron - Total	ND		300	UG/L	200.7	09/18/2008 21:32	SW
Nickel - Total	ND		70.0	UG/L	200.7	09/18/2008 21:32	SW
Selenium - Total	ND		4.6	UG/L	200.8	09/18/2008 13:29	SW
Thallium - Total	ND		4.0	UG/L	200.8	09/18/2008 13:29	SW
Zinc - Total	ND		115	UG/L	200.7	09/18/2008 21:32	SW
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	09/17/2008 11:07	ERK
Biochemical Oxygen Demand	ND		5.0	MG/L	5210B	09/17/2008 17:00	TL
Chemical Oxygen Demand	ND		40.0	MG/L	410.4	09/18/2008 17:15	TL
Dissolved Oxygen	7.0		7.0	MG/L	4500-O G	09/16/2008 22:15	RK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	09/16/2008 21:30	RJP
Nitrite	ND		0.050	MG/L-N	353.2	09/17/2008 11:05	JM
Nitrogen, Nitrate	3.0		0.050	MG/L-N	353.2	09/17/2008 11:05	JM
pH	7.80		0.100	S.U.	9040	09/16/2008 17:38	TL
Total Dissolved Solids	590		4.0	MG/L	2540C	09/17/2008 13:30	KD
Total Kjeldahl Nitrogen	ND		1.0	MG/L-N	351.2	09/25/2008 11:44	ERK
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	09/23/2008 00:10	KD
Total Suspended Solids	ND		10	MG/L	2540D	09/17/2008 11:45	KD

Airco - Niagara Falls
Airco Parcel, Niagara Falls (Discharge)

Sample ID: TRIP BLANK
Lab Sample ID: A8B29902
Date Collected: 09/16/2008
Time Collected: 00:00

Date Received: 09/16/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
AQUEOUS-CFR136 624 - SELECT COMPOUNDS							
1,1-Dichloroethane	ND		5.0	UG/L	624	09/19/2008 13:21	TRB
Trichloroethene	ND		5.0	UG/L	624	09/19/2008 13:21	TRB

Batch Quality Control Data

Lab Sample ID: A8B03808 A8B03808MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0	0.114	0.100	114	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B25401 A8B25401MS A8B25401SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS ALLIED - METHOD 350.1 - AMMONIA - W	MG/L-N	37.90	47.83	48.76	10.0	10.0	99	109	104	10	20.0	54-150

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B25412 A8B25412MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS ALLIED - METHOD 410.1 CHEMICAL OXYGEN	MG/L	138.2	202.1	50.00	128 *	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B29302 A8B29302MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
WET CHEMISTRY ANALYSIS METHOD 420.4-TOTAL RECOVERABLE PHENOLI	MG/L	0.0370	0.175	0.100	138	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B29308 A8B29308MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM	MG/L	0	0.0250	0.0500	50 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B29901 A8B29901MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
351.2 - TOTAL KJELDAHL NITROGEN - 1.0	MG/L-N	0.395	1.21	1.00	82	72-127

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30006 A8B30006MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.0701	0.249	0.200	90	54-150

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30007 A8B30007MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	29.00	50.00	58 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B30012 A8B30012MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	53.00	50.00	106	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B32305 A8B32305MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 410.4 - CHEMICAL OXYGEN DEMAND	MG/L	0	50.30	50.00	101	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B33003 A8B33003MS A8B33003SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS												
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0.00950	0.108	0.0996	0.100	0.100	98	90	94	8	20.0	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B37709 A8B37709MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
WET CHEMISTRY ANALYSIS METHOD 405.1 - BIOCHEMICAL OXYGEN DEMA	MG/L	0	160.2	198.0	81	22-178

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B38502 A8B38502MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 410.4 - CHEMICAL OXYGEN DEMAND	MG/L	0	45.20	50.00	90	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B39003 A8B39003MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
WET CHEMISTRY ANALYSIS						
410.4 - CHEMICAL OXYGEN DEMAND - 5.0MG	MG/L	0	51.00	50.00	102	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8B45002 A8B45002MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 420.4-TOTAL RECOVERABLE PHENOLI	MG/L	0	0.105	0.100	105	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK79		VBLK81					
Job No	Lab ID	A08-B299	A8B2245602	A08-B299	A8B2276302				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1-Dichloroethane	UG/L	ND	5.0	ND	5.0	NA		NA	
Trichloroethene	UG/L	ND	5.0	ND	5.0	NA		NA	
==========SURROGATE(S)==========									
Toluene-D8	%	101	87-110	99	87-110	NA		NA	
p-Bromofluorobenzene	%	98	78-122	100	78-122	NA		NA	
1,2-Dichloroethane-D4	%	100	88-132	102	88-132	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-B299	A8B2248202						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Barium - Total	UG/L	ND	2000	NA		NA		NA	
Chromium - Total	UG/L	ND	100	NA		NA		NA	
Copper - Total	UG/L	ND	14.7	NA		NA		NA	
Iron - Total	UG/L	ND	300	NA		NA		NA	
Nickel - Total	UG/L	ND	70.0	NA		NA		NA	
Zinc - Total	UG/L	ND	115	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-B299	A8B2248402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Thallium - Total	UG/L	ND	4.0	NA		NA		NA	
Selenium - Total	UG/L	ND	4.6	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MBLK		MBLK		MBLK		MBLK	
Job No / Lab ID		A08-B299	A8B2257102	A08-B299	A8B2257302	A08-B299	A8B2259502	A08-B299	A8B2279302
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Dissolved Solids	MG/L	9.0	4.0	NA		NA		NA	
Total Recoverable Phenolics	UG/L	NA		ND	8.0	NA		ND	8.0
Chemical Oxygen Demand	MG/L	NA		NA		ND	40.0	NA	

Client ID		MBLK		Method Blank		Method Blank		Method Blank	
Job No / Lab ID		A08-B299	A8B2298802	A08-B299	A8B2244102	A08-B299	A8B2246802	A08-B299	A8B2247802
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Kjeldahl Nitrogen	MG/L-N	ND	1.0	NA		NA		NA	
Hexavalent Chromium - Total	UG/L	NA		ND	11.0	NA		NA	
Nitrite	MG/L-N	NA		NA		ND	0.050	NA	
Total Suspended Solids	MG/L	NA		NA		NA		ND	10
Nitrogen, Nitrate	MG/L-N	NA		NA		ND	0.050	NA	

Client ID		Method Blank		Method Blank					
Job No / Lab ID		A08-B299	A8B2248802	A08-B299	A8B2252202				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ammonia	MG/L-N	ND	9.2	NA		NA		NA	
Biochemical Oxygen Demand	MG/L	NA		ND	5.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK79 LCS79
Lab Sample ID: A8B2245602 A8B2245601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 624 - PRIORITY POLLUTANT VOLATILE					
1,1-Dichloroethane	UG/L	18.3	20.0	92	73-128
Trichloroethene	UG/L	17.4	20.0	87	67-134

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK81 LCS81
Lab Sample ID: A8B2276302 A8B2276301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 624 - PRIORITY POLLUTANT VOLATILE					
1,1-Dichloroethane	UG/L	21.4	20.0	107	73-128
Trichloroethene	UG/L	20.2	20.0	101	67-134

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A8B2248202 A8B2248201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
8 DISCHARGE METALS					
TOTAL BARIUM	UG/L	191.8	200.0	96	85-115
TOTAL CHROMIUM	UG/L	189.4	200.0	94	85-115
TOTAL COPPER	UG/L	185.2	200.0	93	85-115
TOTAL IRON	UG/L	10020	10000	100	85-115
TOTAL NICKEL	UG/L	190.5	200.0	95	85-115
TOTAL ZINC	UG/L	199.4	200.0	99	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A8B2248402 A8B2248401

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
200.8 DISCHARGE METALS					
200.8 TOTAL SELENIUM	UG/L	19.63	20.00	96	85-115
TOTAL THALLIUM	UG/L	20.56	20.00	103	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: AP-EWE-01 AP-EWE-01
Lab Sample ID: A8B29901 A8B29901MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
351.2 - TOTAL KJELDAHL NITROGEN - 1.0	MG/L-N	0.395	1.21	1.00	82	72-127

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK LCS
Lab Sample ID: A8B2257302 A8B2257301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 420.4 - TOTAL RECOVERABLE PHENO	UG/L	1930	1720	112	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK
Lab Sample ID: A8B2259502

LCS
A8B2259501

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 410.4 - CHEMICAL OXYGEN DEMAND	MG/L	24.50	25.00	98	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK
Lab Sample ID: A8B2279302

LCS
A8B2279301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 420.4 - TOTAL RECOVERABLE PHENO	UG/L	1362	1720	79	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK LCS
Lab Sample ID: A8B2298802 A8B2298801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
351.2 - TOTAL KJELDAHL NITROGEN - 1.0	MG/L-N	2.29	2.50	92	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2244102 A8B2244101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	48.00	50.00	96	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2246802 A8B2246801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 353.2 - NITRITE	MG/L-N	1.58	1.50	106	90-110
METHOD 353.2 - NITROGEN, NITRATE -W- R	MG/L-N	1.49	1.50	99	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2247802 A8B2247801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 2540D - TOTAL SUSPENDED SOLIDS	MG/L	669.0	678.0	99	88-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2248802 A8B2248801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.763	0.750	102	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2252202 A8B2252201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 5210 B - BIOCHEMICAL OXYGEN DEM	MG/L	180.5	198.0	91	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID	AP-EWE-01				
Job No & Lab Sample ID	A08-B299 A8B29901				
Sample Date	09/16/2008 14:10				
Received Date	09/16/2008 16:55				
Extraction Date					
Analysis Date	09/17/2008 02:30				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A08-B299 A8B29902				
Sample Date	09/16/2008 00:00				
Received Date	09/16/2008 16:55				
Extraction Date					
Analysis Date	09/19/2008 13:21				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID Job No & Lab Sample ID	VBLK79 A08-B299 A8B2245602	VBLK81 A08-B299 A8B2276302			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	09/16/2008 14:03	09/19/2008 12:55			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.005 LITERS	0.005 LITERS			
% Dry					

NA = Not Applicable

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B29901	AP-EWE-01	RECNY	Barium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Copper - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Nickel - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 21:32	SW	Y	WATER
		RECNY	Selenium - Total	200.8	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 13:29	SW	Y	WATER
		RECNY	Thallium - Total	200.8	1.0	0.05	L	09/16/08 14:10	09/16 16:55	NA		09/18 13:29	SW	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B224820Z	Method Blank	RECNY	Barium - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
		RECNY	Copper - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
		RECNY	Nickel - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	-	-	NA		09/18 19:07	SW	Y	WATER
A8B224840Z	Method Blank	RECNY	Selenium - Total	200.8	1.0	0.05	L	-	-	NA		09/18 12:42	SW	Y	WATER
		RECNY	Thallium - Total	200.8	1.0	0.05	L	-	-	NA		09/18 12:42	SW	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B29901	AP-EWE-01	RECNY	pH	9040	1.0		09/16/08 14:10	09/16 16:55	NA		09/16 17:38	TL	Y	WATER
		RECNY	Total Kjeldahl Nitrogen	351.2	1.0		09/16/08 14:10	09/16 16:55	NA		09/25 11:44	ERK	Y	WATER
		RECNY	Nitrogen, Nitrate	353.2	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 11:05	JM	Y	WATER
		RECNY	Nitrite	353.2	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 11:05	JM	Y	WATER
		RECNY	Biochemical Oxygen Demand	5210B	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 17:00	TL	Y	WATER
		RECNY	Total Dissolved Solids	2540C	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 13:30	KD	Y	WATER
		RECNY	Ammonia	350.1	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 11:07	ERK	Y	WATER
		RECNY	Chemical Oxygen Demand	410.4	1.0		09/16/08 14:10	09/16 16:55	NA		09/18 17:15	TL	Y	WATER
		RECNY	Total Suspended Solids	2540D	1.0		09/16/08 14:10	09/16 16:55	NA		09/17 11:45	KD	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0		09/16/08 14:10	09/16 16:55	NA		09/23 00:10	KD	Y	WATER
		RECNY	Dissolved Oxygen	4500-O	1.0		09/16/08 14:10	09/16 16:55	NA		09/16 22:15	RK	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1 L	09/16/08 14:10	09/16 16:55	NA		09/16 21:30	RJP	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B2257102	MBLK	RECNY	Total Dissolved Solids	2540C	1.0		-	-	NA		09/17 13:30	KD	Y	WATER
A8B2257302	MBLK	RECNY	Total Recoverable Phenolics	420.4	1.0		-	-	NA		09/18 14:01	KD	Y	WATER
A8B2259502	MBLK	RECNY	Chemical Oxygen Demand	410.4	1.0		-	-	NA		09/18 17:15	TL	Y	WATER
A8B2279302	MBLK	RECNY	Total Recoverable Phenolics	420.4	1.0		-	-	NA		09/23 00:10	KD	Y	WATER
A8B2298802	MBLK	RECNY	Total Kjeldahl Nitrogen	351.2	1.0		-	-	NA		09/25 09:55	ERK	Y	WATER
A8B2244102	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1 L	-	-	NA		09/16 21:30	RJP	Y	WATER
A8B2246802	Method Blank	RECNY	Nitrogen, Nitrate	353.2	1.0		-	-	NA		09/17 11:05	JM	Y	WATER
		RECNY	Nitrite	353.2	1.0		-	-	NA		09/17 11:05	JM	Y	WATER
A8B2247802	Method Blank	RECNY	Total Suspended Solids	2540D	1.0		-	-	NA		09/17 11:45	KD	Y	WATER
A8B2248802	Method Blank	RECNY	Ammonia	350.1	1.0		-	-	NA		09/17 11:07	ERK	Y	WATER
A8B2252202	Method Blank	RECNY	Biochemical Oxygen Demand	5210B	1.0		-	-	NA		09/17 17:00	TL	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

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TAL-4124 (1007)

Client: GreenStar ENG. - Chip McLeod	Project Manager: JRK	Date: 09/16/08	Chain of Custody Number: 110925
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number:	Page 1 of 1
City: Wappingers Falls; State: NY; Zip Code: 12590	Site Contact:	Lab Contact:	
Project Name and Location (State): AIRCO - QUARTERLY DISCHARGE - SEP (NY)	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: dme	200.8	PPVOAS	TKN	Ammonia	COD	Nitrate	Nitrite	BOD	TSS	D.O./pH	CR+6 WQS	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-EWE-01	09/16/08	1410		X			4	2	1	2			X	X	X	X	X	X	X	XX	X	XX	XX	X	X	
TRIP BLANK	09/03/08	N/A		X						1					X											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: S. Brown	09/16/08	1655	1. Received By:	9/16/08	1655
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ CR+6 Analysis - Short Hold Time ★

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3020

54/54

ANALYTICAL REPORT

Job#: A08-F247

Project#: NY5A9582
Site Name: Airco - Niagara Falls
Task: Airco Parcel, Niagara Falls

Charles E. McLeod, Jr.
Greenstar Engineering, PC
6 Gellatly Drive
Wappinger Falls, NY 12590

TestAmerica Laboratories Inc.

Jason R. Kacalski
Project Manager

12/15/2008

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TestAmerica Buffalo
Current Certifications

As of 11/3/2008

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8F24701	AP-EWE-01	WATER	12/02/2008	08:00	12/02/2008	11:20
A8F24702	TB-01	WATER	12/02/2008	00:00	12/02/2008	11:20

METHODS SUMMARY

Job#: A08-F247

Project#: NY5A9582
Site Name: Airco - Niagara Falls

PARAMETER	ANALYTICAL METHOD		
METHOD 624 - PRIORITY POLLUTANT VOLATILES	CFR136	624	
Barium - Total	MCAWW	200.7	
Chromium - Total	MCAWW	200.7	
Copper - Total	MCAWW	200.7	
Iron - Total	MCAWW	200.7	
Nickel - Total	MCAWW	200.7	
Selenium - Total	MCAWW	200.8	
Thallium - Total	MCAWW	200.8	
Zinc - Total	MCAWW	200.7	
Ammonia	MCAWW	350.1	*
Biochemical Oxygen Demand	SM20	5210B	
Chemical Oxygen Demand	MCAWW	410.4	
Dissolved Oxygen	SM20	4500-O G	
Hexavalent Chromium - Total	SW8463	7196A	
Nitrite	MCAWW	353.2	
Nitrogen, Nitrate	MCAWW	353.2	
pH	SW8463	9040	
Total Dissolved Solids	SM20	2540C	
Total Kjeldahl Nitrogen	MCAWW	351.2	
Total Recoverable Phenolics	MCAWW	420.4	
Total Suspended Solids	SM20	2540D	

References:

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

* Ammonia and/or Fluoride were not distilled prior to analysis.

SDG NARRATIVE

Job#: A08-F247

Project#: NY5A9582
Site Name: Airco - Niagara Falls

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-F247
Sample Cooler(s) were received at the following temperature(s); 3.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

The recovery of sample AP-EWE-01 Matrix Spike exhibited results above the quality control limits for Hexavalent Chromium. However, the LCS was acceptable.

For sample AP-EWE-01, one of the continuing calibration verifications failed bias low for Biochemical Oxygen Demand. All other quality control check standards were within acceptance limits.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Parameter	Unit	Client RL	Lab PQL
Wet Chemistry				
2540C	Total Dissolved Solids	MG/L	1.0	10
420.4	Total Recoverable Phenolics	UG/L	8.0	10

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Airco - Niagara Falls
Airco Parcel, Niagara Falls (Discharge)

Sample ID: AP-EWE-01
Lab Sample ID: A8F24701
Date Collected: 12/02/2008
Time Collected: 08:00

Date Received: 12/02/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
AQUEOUS-CFR136 624 - SELECT COMPOUNDS							
1,1-Dichloroethane	ND		5.0	UG/L	624	12/04/2008 02:22	TRB
Trichloroethene	ND		5.0	UG/L	624	12/04/2008 02:22	TRB
Metals Analysis							
Barium - Total	ND		2000	UG/L	200.7	12/05/2008 12:49	TWS
Chromium - Total	ND		100	UG/L	200.7	12/05/2008 12:49	TWS
Copper - Total	ND		14.7	UG/L	200.7	12/05/2008 12:49	TWS
Iron - Total	ND		300	UG/L	200.7	12/05/2008 12:49	TWS
Nickel - Total	ND		70.0	UG/L	200.7	12/05/2008 12:49	TWS
Selenium - Total	ND		4.6	UG/L	200.8	12/05/2008 12:43	SW
Thallium - Total	ND		4.0	UG/L	200.8	12/05/2008 12:43	SW
Zinc - Total	ND		115	UG/L	200.7	12/05/2008 12:49	TWS
Wet Chemistry Analysis							
Ammonia	ND		9.2	MG/L-N	350.1	12/02/2008 21:38	JFR
Biochemical Oxygen Demand	ND		5.0	MG/L	5210B	12/02/2008 15:00	RK
Chemical Oxygen Demand	ND		40.0	MG/L	410.4	12/03/2008 12:05	MM
Dissolved Oxygen	10.2		7.0	MG/L	4500-O G	12/02/2008 16:00	RK
Hexavalent Chromium - Total	ND		11.0	UG/L	7196A	12/02/2008 13:30	RMM
Nitrite	ND		0.050	MG/L-N	353.2	12/02/2008 16:10	RJP
Nitrogen, Nitrate	1.3		0.050	MG/L-N	353.2	12/02/2008 16:10	RJP
pH	7.91		0.100	S.U.	9040	12/02/2008 20:46	RLG
Total Dissolved Solids	566		4.0	MG/L	2540C	12/05/2008 18:52	MM
Total Kjeldahl Nitrogen	ND		1.0	MG/L-N	351.2	12/10/2008 13:41	LRM
Total Recoverable Phenolics	ND		8.0	UG/L	420.4	12/11/2008 11:21	KD
Total Suspended Solids	ND		10	MG/L	2540D	12/03/2008 12:00	JM

Airco - Niagara Falls
Airco Parcel, Niagara Falls (Discharge)

Sample ID: TB-01
Lab Sample ID: A8F24702
Date Collected: 12/02/2008
Time Collected: 00:00

Date Received: 12/02/2008
Project No: NY5A9582
Client No: 137175
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
AQUEOUS-CFR136 624 - SELECT COMPOUNDS							
1,1-Dichloroethane	ND		5.0	UG/L	624	12/04/2008 02:49	TRB
Trichloroethene	ND		5.0	UG/L	624	12/04/2008 02:49	TRB

Batch Quality Control Data

Lab Sample ID: A8E96803 A8E96803MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.748	0.893	0.200	72	54-150

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F22702 A8F22702MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0	0.105	0.200	53 *	54-150

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F22703 A8F22703MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 353.2 - NITROGEN, NITRATE	MG/L-N	0	1.09	1.00	109	77-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F22710 A8F22710MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0	0.0706	0.100	71	60-143
METHOD 5210 B - BIOCHEMICAL OXYGEN DEM	MG/L	0	199.6	198.0	101	22-178

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F23301 A8F23301MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS ALLIED, PA - METHOD 353.2 - NITRATE/NI	MG/L-N	0	0.530	1.00	53 *	77-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F23305 A8F23305MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS ALLIED, PA -METH 410.4 CHEMICAL OXYGEN	MG/L	0	65.90	50.00	132 *	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F24405 A8F24405MS

Analyte	Units of Measure	Concentration		Spike Amount	% Recovery MS	QC LIMITS
		Sample	Matrix Spike			
WET CHEMISTRY ANALYSIS						
410.4 - CHEMICAL OXYGEN DEMAND - 5.0MG	MG/L	0	61.90	50.00	124	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F24701 A8F24701MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	63.00	50.00	126 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F28603 A8F28603MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
9066 - TOTAL RECOVERABLE PHENOLICS - R	MG/L	0	0.0782	0.100	78	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F28611 A8F28611MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 5210 B - BIOCHEMICAL OXYGEN DEM	MG/L	0	173.7	198.0	88	22-178

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8F29401 A8F29401MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 420.4 - TOTAL RECOVERABLE PHENO	MG/L	0.158	0.232	0.100	75	60-143

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK29							
Job No	Lab ID	A08-F247	A8B2708802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	98	87-110	NA		NA		NA	
p-Bromofluorobenzene	%	96	78-122	NA		NA		NA	
1,2-Dichloroethane-D4	%	102	88-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-F247	A8B2703302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chromium - Total	UG/L	ND	100	NA		NA		NA	
Iron - Total	UG/L	ND	300	NA		NA		NA	
Barium - Total	UG/L	ND	2000	NA		NA		NA	
Nickel - Total	UG/L	ND	70.0	NA		NA		NA	
Zinc - Total	UG/L	ND	115	NA		NA		NA	
Copper - Total	UG/L	ND	14.7	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-F247	A8B2703402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Thallium - Total	UG/L	ND	4.0	NA		NA		NA	
Selenium - Total	UG/L	ND	4.6	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MBLK		MBLK		MBLK		Method Blank	
Job No	Lab ID	A08-F247	A8B2708002	A08-F247	A8B2721502	A08-F247	A8B2751602	A08-F247	A8B2696002
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chemical Oxygen Demand	MG/L	ND	40.0	NA		NA		NA	
Total Dissolved Solids	MG/L	NA		ND	4.0	NA		NA	
Total Recoverable Phenolics	UG/L	NA		NA		ND	8.0	NA	
Hexavalent Chromium - Total	UG/L	NA		NA		NA		ND	11.0

Client ID		Method Blank		Method Blank		Method Blank		Method Blank	
Job No	Lab ID	A08-F247	A8B2697404	A08-F247	A8B2699302	A08-F247	A8B2703602	A08-F247	A8B2703902
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrite	MG/L-N	ND	0.050	NA		NA		NA	
Biochemical Oxygen Demand	MG/L	NA		ND	5.0	NA		NA	
Ammonia	MG/L-N	NA		NA		ND	9.2	NA	
Total Suspended Solids	MG/L	NA		NA		NA		ND	10
Nitrogen, Nitrate	MG/L-N	ND	0.050	NA		NA		NA	

Client ID		Method Blank							
Job No	Lab ID	A08-F247	A8B2743302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Kjeldahl Nitrogen	MG/L-N	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK29 LCS29
Lab Sample ID: A8B2708802 A8B2708801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 624 - PRIORITY POLLUTANT VOLATILE					
1,1-Dichloroethane	UG/L	18.2	20.0	91	73-128
Trichloroethene	UG/L	17.7	20.0	89	67-134

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A8B2703302 A8B2703301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
8 DISCHARGE METALS					
TOTAL BARIUM	UG/L	202.4	200.0	101	85-115
TOTAL CHROMIUM	UG/L	201.0	200.0	100	85-115
TOTAL COPPER	UG/L	198.6	200.0	99	85-115
TOTAL IRON	UG/L	10352	10000	104	85-115
TOTAL NICKEL	UG/L	197.8	200.0	99	85-115
TOTAL ZINC	UG/L	200.4	200.0	100	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A8B2703402 A8B2703401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
200.8 DISCHARGE METALS					
200.8 TOTAL SELENIUM	UG/L	18.88	20.00	94	85-115
TOTAL THALLIUM	UG/L	21.51	20.00	108	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: AP-EWE-01 AP-EWE-01
Lab Sample ID: A8F24701 A8F24701MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	0	63.00	50.00	126 *	75-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK LCS
Lab Sample ID: A8B2708002 A8B2708001

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 410.4 - CHEMICAL OXYGEN DEMAND	MG/L	26.90	25.00	108	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: MBLK LCS
Lab Sample ID: A8B2751602 A8B2751601

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 420.4 - TOTAL RECOVERABLE PHENO	UG/L	490.1	517.0	95	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2696002 A8B2696001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM - COLORIMETRIC (WE	UG/L	52.00	50.00	104	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2697404 A8B2697402

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 353.2 - NITRITE	MG/L-N	1.46	1.50	97	90-110
METHOD 353.2 - NITROGEN, NITRATE -W- R	MG/L-N	1.57	1.50	105	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2699302 A8B2699301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
METHOD 5210 B - BIOCHEMICAL OXYGEN DEM	MG/L	193.4	198.0	98	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2703602 A8B2703601

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 350.1 - AMMONIA	MG/L-N	0.756	0.750	101	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2703902 A8B2703901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 2540D - TOTAL SUSPENDED SOLIDS	MG/L	550.0	580.0	95	88-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B2743302 A8B2743301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
351.2 - TOTAL KJELDAHL NITROGEN - 1.0	MG/L-N	2.30	2.50	92	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID	AP-EWE-01				
Job No & Lab Sample ID	A08-F247 A8F24701				
Sample Date	12/02/2008 08:00				
Received Date	12/02/2008 11:20				
Extraction Date					
Analysis Date	12/04/2008 02:22				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID Job No & Lab Sample ID	TB-01 A08-F247 A8F24702				
Sample Date	12/02/2008 00:00				
Received Date	12/02/2008 11:20				
Extraction Date					
Analysis Date	12/04/2008 02:49				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - PRIORITY POLLUTANT VOLATILES

Client Sample ID Job No & Lab Sample ID	VBLK29 A08-F247 A8B2708802				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	12/03/2008 16:11				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8F24701	AP-EWE-01	RECNY	Barium - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Copper - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Nickel - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:49	TWS	Y	WATER
		RECNY	Selenium - Total	200.8	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:43	SW	Y	WATER
		RECNY	Thallium - Total	200.8	1.0	0.05	L	12/02/08 08:00	12/02 11:20	NA		12/05 12:43	SW	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B2703302	Method Blank	RECNY	Barium - Total	200.7	1.0	0.05	L	-	-	NA		12/05 12:39	TWS	Y	WATER
		RECNY	Chromium - Total	200.7	1.0	0.05	L	-	-	NA		12/05 12:39	TWS	Y	WATER
		RECNY	Copper - Total	200.7	1.0	0.05	L	-	-	NA		12/05 12:39	TWS	Y	WATER
		RECNY	Iron - Total	200.7	1.0	0.05	L	-	-	NA		12/05 01:36	TWS	Y	WATER
		RECNY	Nickel - Total	200.7	1.0	0.05	L	-	-	NA		12/05 12:39	TWS	Y	WATER
		RECNY	Zinc - Total	200.7	1.0	0.05	L	-	-	NA		12/05 12:39	TWS	Y	WATER
A8B2703402	Method Blank	RECNY	Selenium - Total	200.8	1.0	0.05	L	-	-	NA		12/05 12:35	SW	Y	WATER
		RECNY	Thallium - Total	200.8	1.0	0.05	L	-	-	NA		12/05 12:35	SW	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8F24701	AP-EWE-01	RECNY	pH	9040	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 20:46	RLG	Y	WATER
		RECNY	Total Kjeldahl Nitrogen	351.2	1.0		12/02/08 08:00	12/02 11:20	NA		12/10 13:41	LRM	Y	WATER
		RECNY	Nitrogen, Nitrate	353.2	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 16:10	RJP	Y	WATER
		RECNY	Nitrite	353.2	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 16:10	RJP	Y	WATER
		RECNY	Biochemical Oxygen Demand	5210B	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 15:00	RK	Y	WATER
		RECNY	Total Dissolved Solids	2540C	1.0		12/02/08 08:00	12/02 11:20	NA		12/05 18:52	MM	Y	WATER
		RECNY	Ammonia	350.1	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 21:38	JFR	Y	WATER
		RECNY	Chemical Oxygen Demand	410.4	1.0		12/02/08 08:00	12/02 11:20	NA		12/03 12:05	MM	Y	WATER
		RECNY	Total Suspended Solids	2540D	1.0		12/02/08 08:00	12/02 11:20	NA		12/03 12:00	JM	Y	WATER
		RECNY	Total Recoverable Phenolics	420.4	1.0		12/02/08 08:00	12/02 11:20	NA		12/11 11:21	KD	Y	WATER
		RECNY	Dissolved Oxygen	4500-O	1.0		12/02/08 08:00	12/02 11:20	NA		12/02 16:00	RK	Y	WATER
		RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1 L	12/02/08 08:00	12/02 11:20	NA		12/02 13:30	RMM	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

AIRCO - NIAGARA FALLS
AIRCO PARCEL, NIAGARA FALLS (DISCHARGE)
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A8B2708002	MBLK	RECNY	Chemical Oxygen Demand	410.4	1.0		-	-	NA		12/03 12:05	MM	Y	WATER
A8B2721502	MBLK	RECNY	Total Dissolved Solids	2540C	1.0		-	-	NA		12/05 18:52	MM	Y	WATER
A8B2751602	MBLK	RECNY	Total Recoverable Phenolics	420.4	1.0		-	-	NA		12/11 10:15	KD	Y	WATER
A8B2696002	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	0.1 L	-	-	NA		12/02 13:30	RMM	Y	WATER
A8B2697404	Method Blank	RECNY	Nitrogen, Nitrate	353.2	1.0		-	-	NA		12/02 16:10	RJP	Y	WATER
		RECNY	Nitrite	353.2	1.0		-	-	NA		12/02 16:10	RJP	Y	WATER
A8B2699302	Method Blank	RECNY	Biochemical Oxygen Demand	5210B	1.0		-	-	NA		12/02 15:00	RK	Y	WATER
A8B2703602	Method Blank	RECNY	Ammonia	350.1	1.0		-	-	NA		12/02 21:38	JFR	Y	WATER
A8B2703902	Method Blank	RECNY	Total Suspended Solids	2540D	1.0		-	-	NA		12/03 12:00	JM	Y	WATER
A8B2743302	Method Blank	RECNY	Total Kjeldahl Nitrogen	351.2	1.0		-	-	NA		12/10 13:41	LRM	Y	WATER

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature	Site Name	Spec Request: AC	Site Location	Event Name
Charles McLeod		AIRCO Parcel	89242	Niagara Falls, NY	Quarterly Discharge Monitoring

TA Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	BOD, D.O., C, 16 WQ	Nitrate, Nitrite	PP VOAs, TKN	Total Metals	dme 200.8	Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)															
				INDICATE CONTAINER BY USING KEY BELOW															
	AP-EWE-01	12-2-08	0800	W	G				X			X		X	X	X	X	X	
																X			PP VOAs only
	TB-01	12-2-08	0800	X	X														

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Greenstar	12-2-08	1120		BUFFALO	12/02/08	1120
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key	Container Key	Preservstion Key
WW = Wastewater	1. Plastic	1. HCl, Cool to 4°
W = Water/Groundwater	2. VOA Vial	2. H_2SO_4, Cool to 4°
S = Solid	3. Sterile Plastic	3. HNO_3, Cool to 4°
Sl = Sludge	4. Amber Glass	4. NaOH, Cool to 4°
MS = Miscellaneous Solids	5. Widemouth Glass	5. NaOH/Zn Acetate, Cool to 4°
Ol = Oil	6. Other	6. Cool to 4°
A = Air		7. None
O = _____		

COMMENTS	Courier:
3.0°	Bill of Lading:

TAL-8219 (1207)

Attachment G

Monthly Operation and Maintenance Details
July – December 2008

1. INTRODUCTION

This report presents a summary of the ongoing operation and maintenance activities for the Airco Parcel site from 1 July to 31 December 2008. It includes a summary of ongoing operations, system repairs, corrective actions, improvements, and an evaluation of the groundwater collection treatment system (GCTS) performance.

2. ROUTINE OPERATION AND MAINTENANCE

The 21,600 gallons per day (gpd) discharge limit was exceeded during the reporting period. The number of days per month the limit was exceeded was as follows: July (25), August (12), September (1), November (1), and December (13). The majority of the days which exceeded the criteria were due to pumping water from the T8 emergency overflow pond into the treatment system. Influent flow rate at T1 is routinely adjusted to prevent excess flow into the treatment system. It may be necessary to augment the discharge guidance values in the future to allow for a higher flow rate, if the discharge flow rate routinely exceeds 21,600 gpd. Table 2 of the Bi-Annual 2008 Monitoring Event Letter Report provides a summary of the analytical results from the quarterly effluent sampling events from September and December 2008. Routine operation and maintenance was completed throughout the monitoring period. Field tasks included system checks, data collection, and field analysis of treatment water at various stages of the treatment process, transducer cleanings, and general site maintenance.

3. SYSTEM OPERATIONS AND EFFICIENCY

During this monitoring period, 3,335,092 gal of groundwater were treated and discharged to the stormwater swale adjacent to the engineered wetlands. The system flow rate averaged 12.6 gpm, during the reporting period, with no influence observed due to heavy rain events. The treatment system was operational for 100 percent of the reporting period. The emergency overflow pond, T8, was utilized at various points during the reporting period during routine system maintenance and cleaning activities.

The completed System Monitoring Checklists are provided in Attachment G.1. Monthly GCTS flow calculations are provided in Attachment G.2. During the reporting period, an estimated 2.8 lb of total chromium was removed by the system. The calculated removal efficiency for Total Chromium is 99.3 percent. An estimated 1.1 lb of the Total Chromium removed by the GCTS was hexavalent chromium. The estimated removal efficiency for Hexavalent Chromium was 95.6 percent. These values are based on the total gallons treated and the average influent and effluent concentrations observed from the bi-weekly field sampling.

3.1 SYNOPSIS OF THE BI-ANNUAL ACTIVITIES

July 2008

The system was operational for all 31 days in July. Alarm conditions were reported, but no unscheduled shut downs occurred. The following details the activities which were performed during July:

- 14 July 2008 – Routine site visit. Performed calibration of pH probes and commenced dewatering of northern tank field to initiate cleaning and removal of hardness precipitate.
- 15 July 2008 – While onsite for routine operation and maintenance activities Greenstar personnel responded to a P1B fail to start. The VFD was reset multiple times before pump operation returned to normal.
- 18 July 2008 – Responded remotely to high pH alarm in T3B. Increased CO_2 flow into T3A and reset alarm conditions.
- 22 July 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal.
- 28 July 2008 – Routine site visit. Tightened covers on the T3A and T6A tank fields. Performed mowing and vegetation removal from around the solar panel and control panel and various other locations to maintain access to equipment.

August 2008

The system was operational for all 31 days in August. Alarm conditions were reported but no unscheduled shut downs occurred. The following details the activities which were performed during August:

- 2 August 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal. Further diagnosis of this pump will be performed this month.
- 13 August 2008 – Routine site visit. Prior to this site visit, remote monitoring of the system revealed that pump P6 in tank T6B was showing evidence of significant pump deterioration. The condition was observed in July into August. This routine visit was scheduled to include the replacement of pump P6. Investigation into P1B fail to start will be delayed until the next routine visit since replacement of P6 took precedence.
- 18 August 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal. A site visit was scheduled for 27 August 2008 to assess the P1B pump.
- 18 August 2008 – Responded remotely to low level and low pressure alarms in T2, the CO_2 storage tank. Linde service personnel were contacted.
- 23 August 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal. A site visit was scheduled for 27 August 2008 to assess the P1B pump.
- 27 August 2008 – Routine site visit. Prior remote monitoring revealed that pump P1B was not operating properly. Diagnosis of the pump indicated that the motor was damaged and needed to be replaced. A new pump was ordered. The pH probes in T3B, T6B and T7 were calibrated. Vegetation was removed as needed to access equipment.

September 2008

The system was operational for all 30 days in September. Alarm conditions were reported but no unscheduled shut downs occurred. The following details the activities which were performed during September:

- 5 September 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal.
- 7 September 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely multiple times before pump operation returned to normal.
- 9 September 2008 – Responded remotely to T3B high level alarm. Alarm condition a result of pumping water from T8 in advance of routine shut down for cleaning of T6A.
- 15 – 19 September 2008 – Routine site visit performed in conjunction with the bi-annual groundwater monitoring event and sediment removal from the southern T6A tanks. Vegetation removal from around T7 to provide routine access to monitoring equipment. P1B was replaced with the new pump and the existing P1B was rebuilt with a new motor and placed into inventory as a spare.
- 25 – 26 September 2008 – Routine site visit performed in response to ongoing alarm conditions being reported from 20 – 25 September 2008. Initial diagnosis of Panel A indicated that the 24 VDC power supply was faulty and required replacement. Two 24 VDC transformers were ordered. Continued issues after installation of the new transformer occurred. The system was operated to T8 manually over the weekend until a electrical controls specialist could be mobilized. During the site visit, P3B exhibited a pump fail to start. The pump failed and was replaced with a pump from inventory. A new inventory pump was ordered.
- 29 September 2008 – Controls specialist mobilized to the site. A wire was determined to be grounding out causing failure of the power supply. The system returned to normal operations. While onsite, the controls specialist responded to a P1B fail to start. The controls specialist tested the VFD and determined that the ongoing fail to start alarms are attributed to the VFD. A VFD replacement was ordered.

October 2008

The system was operational for 31 days in October. Alarm conditions were reported but no unscheduled shut downs occurred. The following details the activities which were performed during October:

- 1 – 3 October 2008 – Remote monitoring of pump cycles revealed that P5 was pumping too frequently. During the site visit it was determined that the ball check valve in T5 required replacement to prevent the backflow of water form T6A which was occurring. Activated all shed heaters and heat trace operational for winter. Bloom's Landscaping mowed the cap and removed deciduous growth from roadways and swales.
- 5 October 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.

- 16 October 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.
- 21 October 2008 – Routine site visit. Mowed vegetation around T7 to maintain access to equipment. VFD issues continue. New VFD is expected to be installed in November.
- 23 October 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.
- 24 October 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.
- 26 October 2008 – Responded remotely to multiple pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.
- 31 October 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.

November 2008

The system was operational for 30 days in November. Alarm conditions were reported but no unscheduled shut downs occurred. The following details the activities which were performed during November:

- 1 November 2008 – Responded remotely to pump fail to start alarm associated with P1B. The VFD was reset remotely to reset pump to normal operation.
- 3 November 2008 – Extended site visit to perform routine operations and maintenance activities, rebuild the old P1B and place into inventory, and install a program the new VFD.
- 24 November 2008 – Routine site visit. Calibrated pH probes in T3B and T6B. Could not perform calibration to T7 pH probe due to ice.

December 2008

The system was operational for 31 days in December. Alarm conditions were reported but no unscheduled shut downs occurred. The following details the activities which were performed during December:

- 2 December 2008 – Routine site visit. Calibrated pH probes. No alarm conditions have been logged since 3 November 2008. Calibrated and cleaned pH probes. Collected the 4th quarter compliance samples for the effluent discharge. Samples transported to TestAmerica in Amherst, NY.
- 8 December 2008 – Responded remotely to multiple alarm conditions. Mobilized local contractor to check system. Heater in Panel A was not functioning causing the PLC not to operate within allowable temperatures. A heater was pulled from inventory and installed.

- 13 December 2008 – Responded remotely to multiple alarm conditions. Mobilized local contractor to check system. Heater in Panel A was functioning, but high winds and cold temperatures were resulting in cold air blowing through the vents on the panel. Vents were blocked to prevent heat loss.
- 16 December 2008 – Routine site visit. Aeration blower in T6B was off upon arrival. Blower was restarted and thermal overload was adjusted. Calibrated and cleaned pH probes in T3B and T6B.
- 21 December 2008 – Responded remotely to low level and low pressure alarms in T2, the CO_2 storage tank. Linde service personnel were contacted. A relief valve on the tank was determined to be faulty. The relief valve was replaced. Additionally, the automated control valve which operates to maintain system pressure was becoming jammed with ice and snow. Linde personnel thawed the valve and insulated it to protect it from freezing and failure.

4. MODIFICATIONS/IMPROVEMENTS AND RECOMMENDATIONS

4.1 SYSTEM MODIFICATION/IMPROVEMENTS

No major modifications to the GCTS were performed during the report period. Only Routine operations and maintenance activities, including repairs to pumps, VFDs, pH probes, etc were performed.

4.2 RECOMMENDATIONS

No recommendations for system modifications or changes are suggested at this time. The monitoring and maintenance program is continually evaluated to streamline the process to the extent practical. Any recommendations to the program will be suggested when identified.

5. PROJECTED OPERATION AND MAINTENACE

5.1 JANUARY – JUNE 2009

During the first bi-annual reporting period of 2009, Greenstar anticipates performing routine operation and maintenance activities.

6. SYSTEM MONITORING

6.1 ENVIRONMENTAL SAMPLING

Routine system sampling with field analysis will continue on a bi-monthly basis to ensure chromium removal efficiency is maintained and no short circuiting is occurring in the zero valence iron beds. Quarterly discharge samples are anticipated to be collected in March and May 2009 from the GCTS to monitor the New York State Department of Environmental Conservation discharge permit guidelines. The first bi-annual groundwater monitoring event for 2009 is anticipated to occur in April 2009.

Attachment G.1

Airco Parcel Bi-Weekly System Monitoring Checklists July – December 2008

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 7/14/08	**Project No.: 1005**	**Greenstar Personnel Chip Mcleod / Bruce Vinal**
Weather: Sunny 80 degrees		
READING		*ITEM*
227.5		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6900		Carbon Dioxide Tank Liquid Level
2.5		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.4		T3B pH Reading
614.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
615.9		T6A Water Elevation
6.4		T6B pH
612.6		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.3		T7 pH
1.3		T8 Water Elevation
10,747,717		Flow Meter Reading
15		Average System Flow
9.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.095	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.109	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
-0.002	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.000	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.37		Calcium Settling Pond Effluent (T3)
6.13		Iron Settling Pond Effluent (T6)
6.44		Engineered Wetland Effluent (T7)
7.23		Southwest Corner Effluent (SS-1)
Notes: Clean and calibrate pH probes in T3B and T6B/ Pump dry and remove calcium precipitate from first two rows of tanks in T3A		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 7/28/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sunny 80 degrees		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7820		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.2		T3B pH Reading
613.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
615.9		T6A Water Elevation
6.4		T6B pH
613.1		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.0		T7 pH
1.3		T8 Water Elevation
11,071,142		Flow Meter Reading
16 gpm		Average System Flow
10.2		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.088	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.088	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
-0.010	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
-0.004	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
-0.003	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.45		Calcium Settling Pond Effluent (T3)
6.28		Iron Settling Pond Effluent (T6)
6.49		Engineered Wetland Effluent (T7)
7.14		Southwest Corner Effluent (SS-1)
Notes: Tightened covers on T3A and T6A. Cleared tall grass at solar panel and various other maintenance locations.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 8/13/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Scattered showers 80 degrees		
READING		*ITEM*
235		Carbon Dioxide Storage Tank Pressure (220-235 psi)
11,493		Carbon Dioxide Tank Liquid Level
3.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.2		T3B pH Reading
614.3		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
615.9		T6A Water Elevation
6.4		T6B pH
612.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.0		T7 pH
1.2		T8 Water Elevation
11,449,119		Flow Meter Reading
15		Average System Flow
10.5		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.019	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.157	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.009	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.011	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.028	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.31		Calcium Settling Pond Effluent (T3)
6.12		Iron Settling Pond Effluent (T6)
6.44		Engineered Wetland Effluent (T7)
7.09		Southwest Corner Effluent (SS-1)
Notes: Replaced pump P6.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 8/27/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sunny 75 Degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9339		Carbon Dioxide Tank Liquid Level
3.1		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.2		T3B pH Reading
613.5		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
615.9		T6A Water Elevation
6.4		T6B pH
613.3		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
5.9		T7 pH
1.3		T8 Water Elevation
11,673,570		Flow Meter Reading
11.0		Average System Flow
10.9		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.005	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.076	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.016	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.011	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.033	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.43		Calcium Settling Pond Effluent (T3)
6.30		Iron Settling Pond Effluent (T6)
6.5		Engineered Wetland Effluent (T7)
7.14		Southwest Corner Effluent (SS-1)
Notes: Diagnose and repair sporadic pump shutdown of P1B. Calibrate pH probes in T3, T6, and T7. Pull weeds. Coil 2" lay flat hose and store in shed		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 9/15/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 65 degrees		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5828		Carbon Dioxide Tank Liquid Level
2.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.2		T3B pH Reading
613.7		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
615.9		T6A Water Elevation
6.3		T6B pH
613.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.2		T7 pH
1.3		T8 Water Elevation
12,000,558		Flow Meter Reading
11		Average System Flow
11.4		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.023	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.049	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.018	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
-0.008	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.001	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.005	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.002	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.013	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.62		Calcium Settling Pond Effluent (T3)
6.63		Iron Settling Pond Effluent (T6)
6.81		Engineered Wetland Effluent (T7)
7.44		Southwest Corner Effluent (SS-1)
Notes: Replace P-1B. Weed whack around T-7. Bi-annual monitoring sampling event. Vacuum first row of tanks in T-6A		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 9/25/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sunny 70 degrees		
READING		*ITEM*
NA		Carbon Dioxide Storage Tank Pressure (220-235 psi)
NA		Carbon Dioxide Tank Liquid Level
NA		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
NA		T3A Water Elevation
NA		T3B pH Reading
NA		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
NA		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
NA		T6A Water Elevation
NA		T6B pH
NA		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
NA		T7 Water Level Reading
NA		T7 pH
NA		T8 Water Elevation
NA		Flow Meter Reading
NA		Average System Flow
NA		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.003	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.059	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.004	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
-0.000	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.007	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.007	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.56		Calcium Settling Pond Effluent (T3)
6.38		Iron Settling Pond Effluent (T6)
6.71		Engineered Wetland Effluent (T7)
7.48		Southwest Corner Effluent (SS-1)
Notes: Replaced P3. Diagnose electrical problem in Panel “A” PLC. Due to these electrical problems much of the information needed for this report was unavailable		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 10/1/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: 62 degrees partly cloudy		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
11,125		Carbon Dioxide Tank Liquid Level
2.8		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.3		T3B pH Reading
613.8		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.4		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.3		T6B pH
613.2		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.2		T7 pH
2.3		T8 Water Elevation
12,161,876		Flow Meter Reading
13		Average System Flow
11.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.001	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.014	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.010	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
-0.017	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.007	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.004	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.41		Calcium Settling Pond Effluent (T3)
6.50		Iron Settling Pond Effluent (T6)
6.58		Engineered Wetland Effluent (T7)
7.35		Southwest Corner Effluent (SS-1)
Notes: Replaced ball check in T5. Got shed heaters up and running for winter. Bloom's Landscaping mowed the cap and removed deciduous growth from roadways and swales.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 10/21/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Rain/snow showers 40 degrees		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6167		Carbon Dioxide Tank Liquid Level
2.8		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616		T3A Water Elevation
6.3		T3B pH Reading
613.9		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616		T6A Water Elevation
6.3		T6B pH
612.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.2		T7 pH
2.3		T8 Water Elevation
12458301		Flow Meter Reading
11.0		Average System Flow
12.3		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.054	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.096	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.002	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.007	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.011	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.012	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.41		Calcium Settling Pond Effluent (T3)
6.51		Iron Settling Pond Effluent (T6)
6.78		Engineered Wetland Effluent (T7)
7.40		Southwest Corner Effluent (SS-1)
Notes: Mow lawn around T-7		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 11/3/08	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 50 degrees		
READING		*ITEM*
229		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7141 lbs.		Carbon Dioxide Tank Liquid Level
3.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.4		T3B pH Reading
613.5		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.3		T6B pH
612.8		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.2		T7 pH
2.4		T8 Water Elevation
12,662,914		Flow Meter Reading
44		Average System Flow
12.6		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.002	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.115	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.008	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.020	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.008	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.017	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.39		Calcium Settling Pond Effluent (T3)
6.46		Iron Settling Pond Effluent (T6)
6.68		Engineered Wetland Effluent (T7)
7.08		Southwest Corner Effluent (SS-1)
Notes: Rebuild spare T-1 pump, replace and program VFD to P1B		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 11/24/08	**Project No.: 1005**	**Greenstar Personnel:** Chip McLeod
Weather: 30 Degrees, Mostly Sunny		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6,344		Carbon Dioxide Tank Liquid Level
3.1		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.3		T3B pH Reading
613.3		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.2		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.3		T6B pH
612.1		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.1		T7 pH
2.4		T8 Water Elevation
13,021,789		Flow Meter Reading
12 GPM (Reset at 715 am)		Average System Flow
13.2		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.021	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.145	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
ND	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
ND	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.46		Calcium Settling Pond Effluent (T3)
6.45		Iron Settling Pond Effluent (T6)
6.67		Engineered Wetland Effluent (T7)
6.93		Southwest Corner Effluent (SS-1)
Notes: Had to break through the ice in SW corner to obtain a sample. Calibrated pH probes in T3B and T6B. Probe cable in T7 was frozen into ice. No calibration could be performed.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 12/2/08	**Project No.: 1005**	**Greenstar Personnel:** Chip McLeod
Weather: 32 Degrees, Freezing Rain, Snow, Windy		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6,934		Carbon Dioxide Tank Liquid Level
3.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.4		T3B pH Reading
614.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.3		T6B pH
613.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.3		T7 Water Level Reading
6.0		T7 pH
2.6		T8 Water Elevation
13,189,313		Flow Meter Reading
15 GPM (Reset at 7 AM)		Average System Flow
13.4		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.142	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.172	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.024	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.015	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.008	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.018	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.37		Calcium Settling Pond Effluent (T3)
6.36		Iron Settling Pond Effluent (T6)
6.63		Engineered Wetland Effluent (T7)
7.35		Southwest Corner Effluent (SS-1)
Notes: No alarm conditions have been logged since 11/6. Calibrated and cleaned pH probes. Collected the 4th quarter compliance samples for the effluent discharge. Samples transported to TestAmerica in Amherst, NY.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 12/16/08	**Project No.: 1005**	**Greenstar Personnel:** Chip McLeod
Weather: Snow, 26 Degrees		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
3,334		Carbon Dioxide Tank Liquid Level
2.5		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.4		T3B pH Reading
613.7		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.0		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.3		T6B pH
613.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.0		T7 pH
2.7		T8 Water Elevation
13,491,888		Flow Meter Reading
14 GPM (Reset at 848 AM)		Average System Flow
13.7		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.062	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.163	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.017	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.007	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
NS- Ice	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
NS – Ice	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.34		Calcium Settling Pond Effluent (T3)
6.31		Iron Settling Pond Effluent (T6)
6.48		Engineered Wetland Effluent (T7)
NS – Ice too thick to break through		Southwest Corner Effluent (SS-1)
Notes: Ice in SW corner was too thick to break through. Aeration blower in T6B was off upon arrival. Blower was restarted and thermal overload was adjusted. Calibrated and cleaned pH probes in T3B and T6B.		

Attachment G.2

Airco Parcel GCTS
Monthly Flow Calculations
July – December 2008

Monthly Airco Parcel GCTS
Flow Calculations
July 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
7/1/2008	41	15	21,842	10,473,250	24	0
7/2/2008	41	15	22,940	10,496,190	24	0
7/3/2008	41	15	22,962	10,519,152	24	0
7/4/2008	41	15	22,827	10,541,979	24	0
7/5/2008	41	15	22,647	10,564,626	24	0
7/6/2008	40	15	22,669	10,587,295	24	0
7/7/2008	40	15	22,118	10,609,413	24	0
7/8/2008	40	15	22,099	10,631,512	24	0
7/9/2008	40	15	21,762	10,653,274	24	0
7/10/2008	40	15	21,837	10,675,111	24	0
7/11/2008	40	14	21,575	10,696,686	24	0
7/12/2008	40	14	21,204	10,717,890	24	0
7/13/2008	40	14	21,133	10,739,023	24	0
7/14/2008	40	19	28,767	10,767,790	24	0
7/15/2008	40	3	4,670	10,772,460	24	0
7/16/2008	66	5	7,295	10,779,755	24	0
7/17/2008	40	16	24,347	10,804,102	24	0
7/18/2008	40	21	30,020	10,834,122	24	0
7/19/2008	40	14	20,771	10,854,893	24	0
7/20/2008	41	18	26,980	10,881,873	24	0
7/21/2008	41	18	27,305	10,909,178	24	0
7/22/2008	40	18	26,358	10,935,536	24	0
7/23/2008	39	16	23,633	10,959,169	24	0
7/24/2008	39	18	26,065	10,985,234	24	0
7/25/2008	38	17	24,898	11,010,132	24	0
7/26/2008	37	17	24,543	11,034,675	24	0
7/27/2008	36	16	24,434	11,059,109	24	0
7/28/2008	36	16	24,185	11,083,294	24	0
7/29/2008	36	16	24,048	11,107,342	24	0
7/30/2008	36	16	24,096	11,131,438	24	0
7/31/2008	36	18	27,198	11,158,636	24	0
Sample Measurement	**66**	**15.3**	**707,228**	**11,158,636**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
August 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
8/1/2008	35	16	24,340	11,182,976	24	0
8/2/2008	35	17	24,475	11,207,451	24	0
8/3/2008	34	16	23,465	11,230,916	24	0
8/4/2008	34	16	23,206	11,254,122	24	0
8/5/2008	34	16	23,975	11,278,097	24	0
8/6/2008	33	15	22,737	11,300,834	24	0
8/7/2008	33	15	22,832	11,323,666	24	0
8/8/2008	32	15	22,469	11,346,135	24	0
8/9/2008	31	15	22,266	11,368,401	24	0
8/10/2008	32	17	25,184	11,393,585	24	0
8/11/2008	31	15	22,186	11,415,771	24	0
8/12/2008	31	15	21,742	11,437,513	24	0
8/13/2008	43	14	20,181	11,457,694	24	0
8/14/2008	44	11	16,016	11,473,710	24	0
8/15/2008	44	11	16,255	11,489,965	24	0
8/16/2008	44	10	15,819	11,505,784	24	0
8/17/2008	44	11	15,856	11,521,640	24	0
8/18/2008	44	11	16,936	11,538,576	24	0
8/19/2008	44	12	17,655	11,556,231	24	0
8/20/2008	44	11	17,006	11,573,237	24	0
8/21/2008	44	11	16,891	11,590,128	24	0
8/22/2008	44	11	16,902	11,607,030	24	0
8/23/2008	45	11	16,546	11,623,576	24	0
8/24/2008	44	11	16,647	11,640,223	24	0
8/25/2008	45	11	17,056	11,657,279	24	0
8/26/2008	45	11	16,291	11,673,570	24	0
8/27/2008	45	11	16,314	11,689,884	24	0
8/28/2008	45	11	16,614	11,706,498	24	0
8/29/2008	45	10	15,725	11,722,223	24	0
8/30/2008	45	10	15,662	11,737,885	24	0
8/31/2008	45	10	15,125	11,753,010	24	0
Sample Measurement	**45**	**12.8**	**594,374**	**11,753,010**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
September 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
9/1/2008	45	10	15,173	11,768,183	24	0
9/2/2008	45	10	15,199	11,783,382	24	0
9/3/2008	45	10	14,560	11,797,942	24	0
9/4/2008	45	10	15,439	11,813,381	24	0
9/5/2008	46	11	16,753	11,830,134	24	0
9/6/2008	46	12	17,296	11,847,430	24	0
9/7/2008	45	11	16,913	11,864,343	24	0
9/8/2008	45	12	18,628	11,882,971	24	0
9/9/2008	45	14	21,079	11,904,050	24	0
9/10/2008	45	11	17,144	11,921,194	24	0
9/11/2008	45	11	16,508	11,937,702	24	0
9/12/2008	45	12	17,661	11,955,363	24	0
9/13/2008	45	13	19,155	11,974,518	24	0
9/14/2008	45	12	17,493	11,992,011	24	0
9/15/2008	45	18	26,049	12,018,060	24	0
9/16/2008	45	12	18,500	12,036,560	24	0
9/17/2008	45	4	6,461	12,043,021	24	0
9/18/2008	44	6	9,071	12,052,092	24	0
9/19/2008	44	10	14,876	12,066,968	24	0
9/20/2008	44	10	14,912	12,081,880	24	0
9/21/2008	44	10	15,283	12,097,163	24	0
9/22/2008	44	10	15,089	12,112,252	24	0
9/23/2008	44	10	14,440	12,126,692	24	0
9/24/2008	44	3	3,888	12,130,580	24	0
9/25/2008	44	1	2,649	12,133,229	24	0
9/26/2008	0	0	0	12,133,229	24	0
9/27/2008	0	0	0	12,133,229	24	0
9/28/2008	0	0	0	12,133,229	24	0
9/29/2008	44	6	9,332	12,142,561	24	0
9/30/2008	44	13	19,315	12,161,876	24	0
Sample Measurement	**46**	**9.06**	**408,866**	**12,161,876**	**30**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
October 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
10/1/2008	44	12	17,892	12,179,768	24	0
10/2/2008	47	11	17,055	12,196,823	24	0
10/3/2008	44	11	16,082	12,212,905	24	0
10/4/2008	44	11	15,882	12,228,787	24	0
10/5/2008	48	3	4,677	12,233,464	24	0
10/6/2008	0	0	0	12,233,464	24	0
10/7/2008	44	8	11,879	12,245,343	24	0
10/8/2008	44	13	18,816	12,264,159	24	0
10/9/2008	44	11	16,284	12,280,443	24	0
10/10/2008	44	11	16,176	12,296,619	24	0
10/11/2008	44	10	15,821	12,312,440	24	0
10/12/2008	44	11	15,839	12,328,279	24	0
10/13/2008	46	10	15,343	12,343,622	24	0
10/14/2008	44	10	15,446	12,359,068	24	0
10/15/2008	44	10	15,253	12,374,321	24	0
10/16/2008	46	11	16,511	12,390,832	24	0
10/17/2008	44	10	14,801	12,405,633	24	0
10/18/2008	44	10	14,480	12,420,113	24	0
10/19/2008	47	10	14,537	12,434,650	24	0
10/20/2008	44	10	14,563	12,449,213	24	0
10/21/2008	44	11	16,245	12,465,458	24	0
10/22/2008	44	9	14,088	12,479,546	24	0
10/23/2008	44	9	14,163	12,493,709	24	0
10/24/2008	44	10	15,004	12,508,713	24	0
10/25/2008	45	11	16,880	12,525,593	24	0
10/26/2008	44	11	16,424	12,542,017	24	0
10/27/2008	44	10	15,469	12,557,486	24	0
10/28/2008	44	10	14,899	12,572,385	24	0
10/29/2008	44	10	14,543	12,586,928	24	0
10/30/2008	44	9	13,982	12,600,910	24	0
10/31/2008	44	10	14,743	12,615,653	24	0
Sample Measurement	**47**	**9.77**	**453,777**	**12,615653**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
November 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
11/1/2008	44	10	15,001	12,630,654	24	0
11/2/2008	44	13	19,208	12,649,862	24	0
11/3/2008	44	12	17,512	12,667,374	24	0
11/4/2008	44	11	17,022	12,684,396	24	0
11/5/2008	44	11	16,874	12,701,270	24	0
11/6/2008	44	11	17,128	12,718,398	24	0
11/7/2008	44	11	16,641	12,735,039	24	0
11/8/2008	44	12	18,248	12,753,287	24	0
11/9/2008	44	11	16,473	12,769,760	24	0
11/10/2008	44	11	16,266	12,786,026	24	0
11/11/2008	44	11	16,255	12,802,281	24	0
11/12/2008	44	11	16,617	12,818,898	24	0
11/13/2008	44	11	16,648	12,835,546	24	0
11/14/2008	44	11	16,030	12,851,576	24	0
11/15/2008	44	14	20,810	12,872,386	24	0
11/16/2008	44	13	19,854	12,892,240	24	0
11/17/2008	43	12	17,799	12,910,039	24	0
11/18/2008	43	12	17,488	12,927,527	24	0
11/19/2008	43	12	17,609	12,945,136	24	0
11/20/2008	44	12	17,521	12,962,657	24	0
11/21/2008	44	12	17,372	12,980,029	24	0
11/22/2008	44	12	17,720	12,997,749	24	0
11/23/2008	44	12	17,868	13,015,617	24	0
11/24/2008	44	13	19,368	13,034,985	24	0
11/25/2008	44	13	19,999	13,054,984	24	0
11/26/2008	44	15	21,715	13,076,699	24	0
11/27/2008	43	14	20,265	13,096,964	24	0
11/28/2008	43	14	20,282	13,117,246	24	0
11/29/2008	43	14	20,158	13,137,404	24	0
11/30/2008	44	15	22,341	13,159,745	24	0
Sample Measurement	**44**	**12.2**	**544,092**	**13,159,745**	**30**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
December 2008

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
12/1/2008	44	15	22,684	13,182,430	24	0
12/2/2008	43	14	20,700	13,203,130	24	0
12/3/2008	43	14	21,560	13,224,690	24	0
12/4/2008	43	14	20,761	13,245,451	24	0
12/5/2008	43	12	18,699	13,264,150	24	0
12/6/2008	43	13	19,176	13,283,326	24	0
12/7/2008	42	11	16,943	13,300,269	24	0
12/8/2008	42	7	10,464	13,310,733	24	0
12/9/2008	42	14	20,573	13,331,306	24	0
12/10/2008	43	17	25,668	13,356,974	24	0
12/11/2008	42	14	20,827	13,377,801	24	0
12/12/2008	42	14	20,593	13,398,394	24	0
12/13/2008	42	14	20,310	13,418,704	24	0
12/14/2008	42	14	21,132	13,439,836	24	0
12/15/2008	42	15	21,777	13,461,613	24	0
12/16/2008	42	14	21,279	13,482,892	24	0
12/17/2008	42	15	21,903	13,504,795	24	0
12/18/2008	42	15	21,821	13,526,616	24	0
12/19/2008	41	15	22,395	13,549,011	24	0
12/20/2008	41	15	21,826	13,570,837	24	0
12/21/2008	41	10	14,283	13,585,120	24	0
12/22/2008	41	13	18,900	13,604,020	24	0
12/23/2008	41	15	22,463	13,626,483	24	0
12/24/2008	41	18	26,451	13,652,934	24	0
12/25/2008	41	16	22,316	13,675,250	24	0
12/26/2008	41	14	20,820	13,696,070	24	0
12/27/2008	41	21	30,792	13,726,862	24	0
12/28/2008	40	11	17,190	13,744,052	24	0
12/29/2008	40	13	19,091	13,763,143	24	0
12/30/2008	40	15	22,287	13,785,430	24	0
12/31/2008	40	15	22,912	13,808,342	24	0
Sample Measurement	**44**	**14.1**	**648,596**	**13,808,342**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage