Bi-Annual 2009 Monitoring Event Letter Report for Site No. 932001 Airco Properties, Inc., Airco Parcel Niagara Falls, New York

Prepared for

Linde North America, Inc.
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Prepared by

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Revision: 0
Project No.: 150C265.1038

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappingers Falls, NY 12590

31 May 2010

Mr. Brian Thiesse
Head of US SHEQ Operations
Linde North America, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

RE: Bi-Annual 2009 Monitoring Event Letter Report, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York
Greenstar Project No.: 150C265.1038

Dear Mr. Thiesse:

Greenstar Environmental Solutions, LLC (Greenstar) is pleased to provide the second 2009 Bi-Annual Monitoring Event Letter Report summarizing the operation and maintenance activities at the Airco Parcel (Site) for the period 1 July 2009 to 31 December 2009. 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 Bi-Annual Monitoring Event Letter Report is to summarize the analytical results of the second bi-annual 2009 groundwater monitoring event that was conducted in August 2009, and to summarize operations and maintenance activities conducted at the Site from July through December 2009.

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.

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.

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

- 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 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 of the sediment ponds and the engineered wetlands are conducted 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 sample analytical results.

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 operations 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 the 70 acre parcel owned by Niagara Mohawk Power Corporation and New York Power Authority. 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 NYSDEC 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. 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).

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, groundwater discharge was seasonal, and elevated hexavalent chromium (Cr^{6+}) concentrations and pH in groundwater remained in excess of the ambient water quality criteria after mixing with surface water.

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

The Bi-Annual Monitoring Event was completed 24 - 25 August 2009. The sections below provide a summary of data collected as part of this sampling event.

Monitoring Well Gauging

The site monitoring wells, Figure 2, were gauged on 24 August 2009 prior to sampling. 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	10.86	617.77	606.91
MW-2B	11.87	615.88	604.01
MW-3B	8.65	611.22	602.57
MW-4B	7.95	606.68	598.73
MW-5B	6.47	605.48	599.01
MW-6B	4.01	603.47	599.46
MW-7B	10.42	609.48	599.06
MW-8B	5.30	611.62	606.32

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

Figure 3 shows the inferred groundwater flow direction at the site, based on the August 2009 gauging data.

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

LABORATORY ANALYSIS

All groundwater and surface water 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.

Regulatory Criteria

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.

Groundwater Sampling

Monitoring wells were sampled on 25 August 2009. Eight groundwater samples were collected from the site monitoring wells. Monitoring wells MW-3B, MW-4B, MW-5B, MW-6B and MW-8B were purged using dedicated bailers due to slow recharge and limited well volume. Consistent with previous sampling, these wells yield very little groundwater and were bailed dry and allowed to recharge prior to sample collection. Monitoring wells MW-1B, MW-2B, and MW-7B had adequate groundwater yield for low flow sampling utilizing a peristaltic pump. Water quality readings were allowed to stabilize prior to sample collection.

Surface Water Sampling

Surface water samples were collected from the drainage swales in the southwest corner. These samples were collected from the eastern swale approximately 80 feet east of the pump station (SS-02); the confluence of the two swales where they discharge from the property (SS-01); and upstream of the confluence (SS-03). The surface water sample locations are shown on Figures 2 and 4.

ANALYTICAL RESULTS

Analytical results 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. Copies of the laboratory analytical results data sheets for groundwater and surface water sampling are included in Attachment D.

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.

Metals

Unfiltered metals samples were collected from the 8 monitoring wells. Significant results included the following:

- Chromium, hexavalent chromium, iron, 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, MW-4B and MW-8B at concentrations ranging from 0.173 mg/L (MW-8B) to 0.777 mg/L (MW-2B).
- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-2B and MW-4B at concentrations of 0.233 mg/L and 0.212mg/L, respectively.
- Iron was detected in excess of the NYSDEC AWQS in MW-4B, MW-6B, and MW-8B at concentrations ranging from 0.311 mg/L (MW-8B) to 0.676 mg/L (MW-4B).
- Magnesium was detected in excess of the NYSDEC AWQS in MW-1B, MW-4B, MW-5B, MW-6B and MW-8B at concentrations ranging from 51.1 mg/L (MW-4B) to 85 mg/L (MW-5B).
- Manganese was detected in excess of the NYSDEC AWQS in MW-1B at a concentration of 0.808 mg/L.
- Selenium was detected in excess of the NYSDEC AWQS in MW-8B at a concentration of 0.0401 mg/L.
- Sodium was detected in excess of the NYSDEC AWQS in all 8 monitoring wells at concentrations ranging from 27.2 mg/L (MW-5B) to 113 mg/L (MW-1B).

Unfiltered metals samples were collected from 3 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 analyzed by the laboratory. Notable results included the following:

- Sulfate was detected in excess of the NYSDEC AWQS in MW-6B at a concentration of 350 mg/L.
- pH measurements were measured outside the NYSDEC AWQS of 6.5-8.5 standard pH units in monitoring wells MW-2B (12.67), MW-3B (9.55), MW-6B (8.75) and MW-7B (9.71)

LANDFILL INSPECTION

Quarterly landfill cap inspections during the report period were conducted on 25 August and 7 November 2009. The completed Landfill Cap Inspection Checklists are provided as Attachment E. No deterioration, damage, or erosion to the landfill cap was noted during the engineering inspections. The noted deficiencies identified during the 1st, 2nd and 3rd quarters were addressed during the report period. No action items remain at this time.

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 2009)

The GCTS was operated throughout the 6-month period of 1 July – 31 December 2009. System monitoring was conducted throughout the operation period. Attachment G provides details of the problems encountered, and the implemented solutions.

During the reporting period, the GCTS operated for 4,416 hours (100 percent) at an average flow rate of 15.7 gallons per minute (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 T3B after CO_2 aeration; T6B after treatment via the zero valence iron tank; after the engineered wetland (EWE); and at the point 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, and separate quarterly samples were also collected for off-site laboratory analysis at Test America Laboratories of Amherst, New York for a full list of discharge criteria. During the report period, two separate occasions noted elevated levels of hexavalent chromium in the surface water where it exits the site in the southwest corner. In both instances, additional grab samples were collected and sent to Test America in Amherst, NY to confirm the presence of hexavalent chromium. In both cases, the laboratory results were non-detect.

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 August or November 2009 discharge sampling. The full set of laboratory analytical data for the GCTS discharge sampling can be found in Attachment F.

Greenstar completed a full system cleaning off all process lines, tanks, the engineered wetland, and the drainage swale. The engineered wetland and drainage swale had become overgrown with vegetation and contained significant iron sediment deposits which was reducing retention time and impacting treatment system performance. In total, 365 tons of sediment, vegetation, and stone form the drainage swales was removed and disposed of. New stone was transported to the site to repair the drainage swales in areas where the stone was excavated in an effort to remove the iron deposits.

GCTS Modifications (July – December 2009)

No major modifications to the GCTS were performed during the report period. Site activities were limited to routine operations and maintenance, including repairs to pumps, VFDs, and pH probes, and the routine system cleaning, and repairs as noted in the engineering inspections. All of which were conducted in October 2009. Attachment G summarizes monthly operation and maintenance details for the period July through December 2009, as well as provides details of any 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 2009 Monitoring Event Letter Report, please do not hesitate to contact the undersigned at (845) 223-9944.

Sincerely,

GREENSTAR ENVIRONMENTAL SOLUTIONS

Charles E. McLeod, Jr., P.E.
Project Manager

Peter L. Nimmer, P.G.
Senior Geologist

Attachment

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

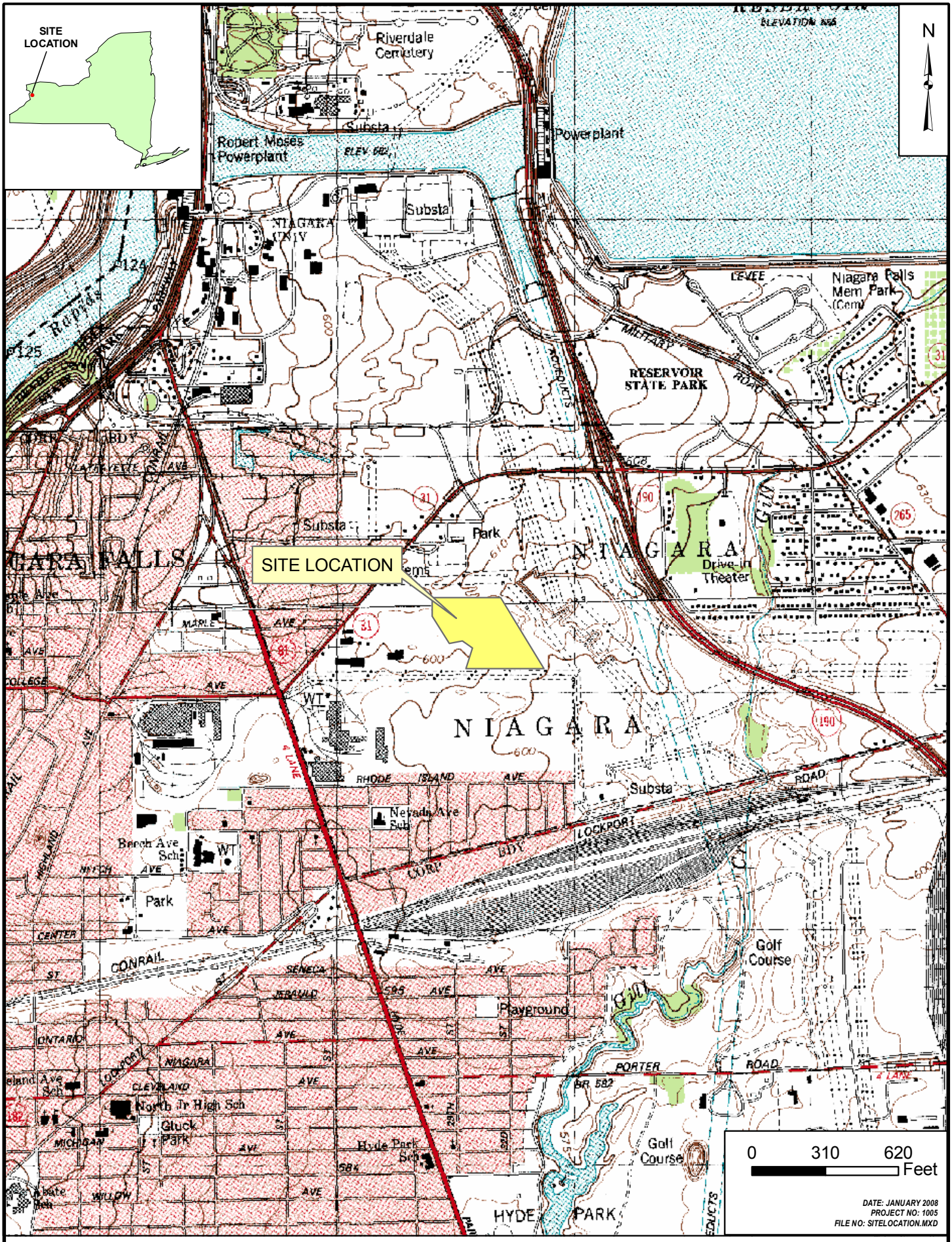
TABLE 1 SUMMARY OF GCTS FIELD SAMPLING RESULTS
1 JULY – 31 DECEMBER 2009, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

	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
7/9/09	115µg/L	100µg/L	27µg/L	1µg/L	<6Uµg/L	12µg/L	25µg/L	9µg/L
7/21/09	136µg/L	50µg/L	30µg/L	<3Uµg/L	4µg/L	3µg/L	18µg/L	**15µg/L***
8/10/09	95µg/L	93µg/L	29µg/L	<3Uµg/L	<6Uµg/L	<3Uµg/L	16µg/L	11µg/L
8/19/09	119µg/L	75µg/L	19µg/L	<3Uµg/L	<6Uµg/L	<3Uµg/L	14µg/L	6µg/L
9/1/09	108µg/L	106µg/L	2µg/L	<3Uµg/L	<6Uµg/L	<3Uµg/L	10µg/L	8µg/L
9/17/09	105µg/L	38µg/L	10µg/L	<3Uµg/L	<6Uµg/L	<3Uµg/L	12µg/L	5µg/L
10/3/09	108µg/L	41µg/L	13µg/L	<3Uµg/L	<6Uµg/L	<3Uµg/L	18µg/L	6µg/L
10/23/09	114µg/L	8µg/L	19µg/L	<3Uµg/L	6µg/L	<3Uµg/L	19µg/L	**14µg/L***
11/7/09	109µg/L	56µg/L	39µg/L	<3Uµg/L	23µg/L	5µg/L	18µg/L	**20µg/L****
11/17/09	131µg/L	59µg/L	23µg/L	<3Uµg/L	12µg/L	2µg/L	10µg/L	7µg/L
12/12/09	86µg/L	13µg/L	28µg/L	<3Uµg/L	26µg/L	6µg/L	19µg/L	9µg/L
12/28/09	75µg/L	144µg/L	50µg/L	3µg/L	30µg/L	<3Uµg/L	NS-Ice	NS-Ice

NOTE: NS = Not Sampled
NS – Ice = Not Sampled due to winter weather conditions.
BOLD field sample results were in excess of SPDES discharge guidance values.
*Confirmation sample collected and analyzed by Test America, Buffalo, NY. Both confirmation samples indicated compliance with SPDES discharge values.
**Unable to collect confirmation sample for laboratory analysis. System check completed on a Sunday and the laboratory was closed.
Field samples analyzed using a HACH DR4000® Spectrophotometer.
Hach Methods 8023 for Hexavalent Chromium and Hach Method 8084 for Total Chromium.

TABLE 2 SUMMARY OF QUARTERLY GCTS DISCHARGE SAMPLING 10 AUGUST AND 16 NOVEMBER 2009, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

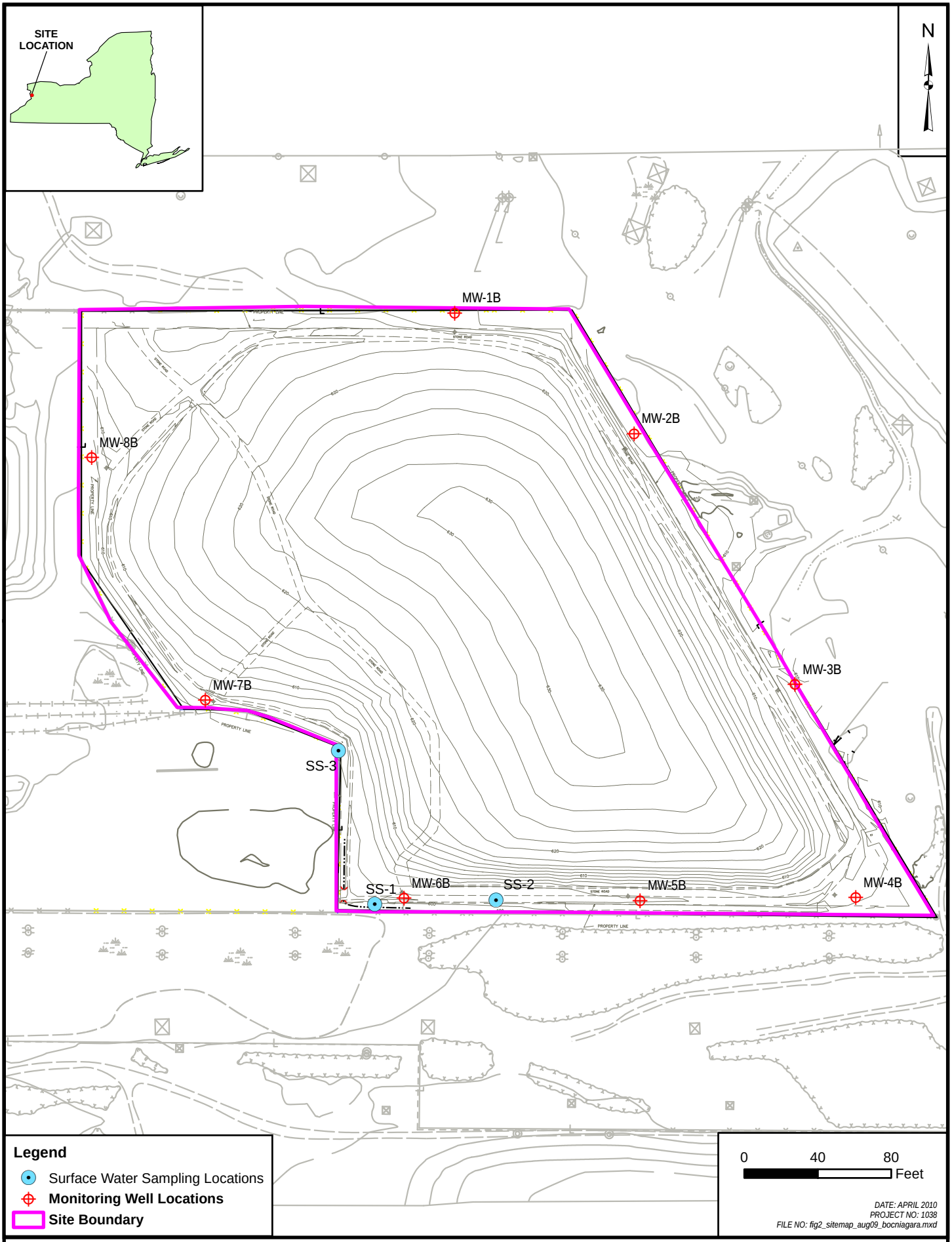
Parameter	10 August 2009	16 November 2009	New York State Department of Environmental Conservation Discharge Criteria
pH	7.80	7.88	6-8 s.u.
Total suspended solids	<10U	<10U	10 mg/L
Dissolved Oxygen	10.4	8.72	7 mg/L
Ammonia as N	<9.2U	<9.2U	9.2 mg/L
Total Kjeldahl nitrogen	<1.0U	<1.0U	Monitor (mg/L)
Total 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	1.17	<0.05U	Monitor (mg/L-N)
Nitrite as N	<0.05U	2.30	Monitor (mg/L-N)
Chemical oxygen demand	<40U	<40U	40 mg/L
Total dissolved solids	591	657	Monitor (mg/L)



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 1
SITE LOCATION



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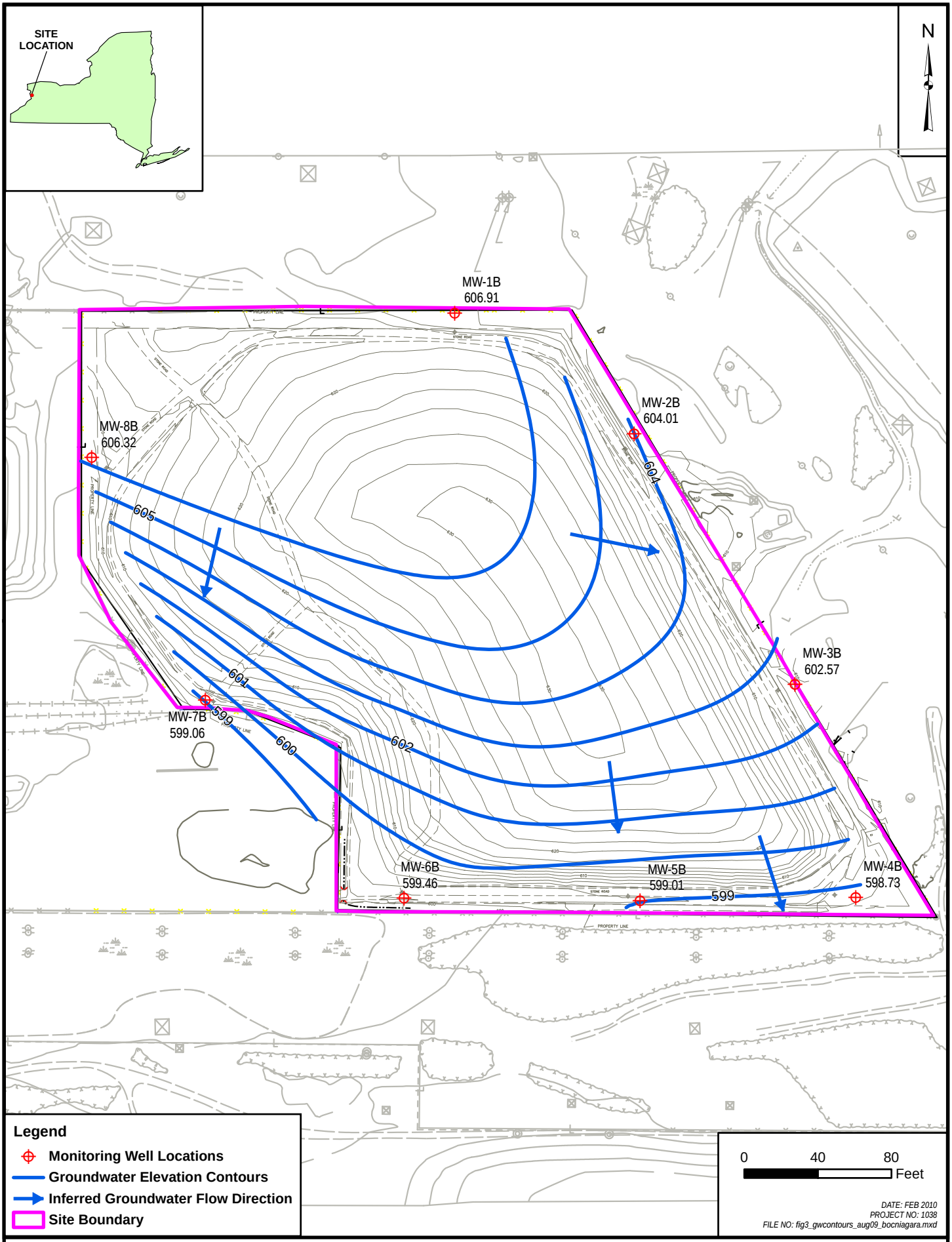
AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 2
SITE MAP



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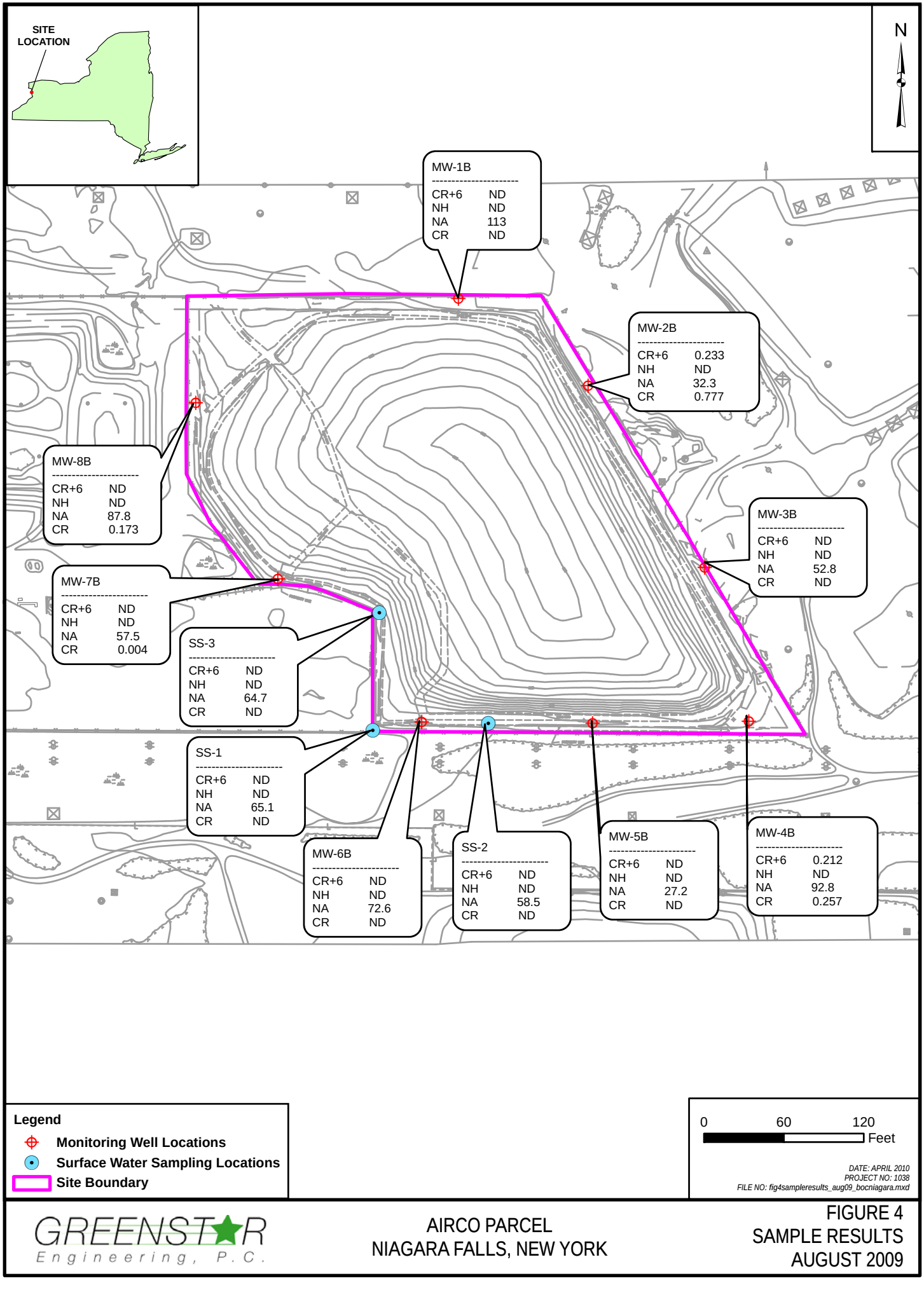
AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 3
GROUNDWATER ELEVATION MAP
AUGUST 2009



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AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 4
SAMPLE RESULTS
AUGUST 2009

Attachment A

Summary of Analytical Results
Groundwater and Surface Water Samples
August 2009

ATTACHMENT A
SUMMARY OF ANALYTICAL RESULTS OF SURFACE WATER AND GROUNDWATER SAMPLES COLLECTED IN AUGUST 2009,
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Groundwater

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		MW-1B	MW-1B (Dup)	MW-2B	MW-3B	MW-4B	MW-5B	MW-6B	MW-7B	MW-8B
Analyte	**AWQS**									
Cadmium	0.005	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)
Chromium	0.05	(<0.004U)	(<0.004U)	**0.777**	(<0.004U)	**0.257**	(<0.004U)	(<0.004U)	0.004	**0.173**
Chromium, Hexavalent	0.05	(<0.011U)	(<0.011U)	**0.233**	(<0.011U)	**0.212**	(<0.011U)	(<0.011U)	(<0.011U)	(<0.011U)
Iron	0.3	0.119	0.123	(<0.05U)	(<0.05U)	**0.676**	0.226	**0.415**	0.081	**0.311**
Lead	0.025	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)
Magnesium	35*	**65.5**	**64.4**	(<0.2U)	8.6	**51.1**	**85**	**75.7**	10	**71.1**
Manganese	0.3	**0.808**	**0.815**	(<0.003U)	0.0117	0.0108	0.0081	0.156	0.0309	0.134
Selenium	0.01	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	**0.0401**
Silica	---	6.99	6.6	0.395J	6.51	11.4	10.1	5.86	4.71	7.51
Sodium	20	**113**	**111**	**32.3**	**52.8**	**92.8**	**27.2**	**72.6**	**57.5**	**87.8**
Thallium	0.0005*	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	2*	0.627	0.627	(<0.01U)	(<0.01U)	0.0132	0.0347	(<0.01U)	(<0.01U)	0.0845

Water Quality Parameters (mg/L)

		MW-1B	MW-1B (Dup)	MW-2B	MW-3B	MW-4B	MW-5B	MW-6B	MW-7B	MW-8B
Analyte	**AWQS**									
Ammonia (expressed as N)	2	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)
Phenolics	0.001	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)
Sulfate	250	238	234	22J	67.2J	156	145	**350**	37.2J	237

Surface Water

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		SS-01	SS-02	SS-03
Analyte	**AWQS**			
Cadmium	---	(<0.001U)	(<0.001U)	(<0.001U)
Chromium	---	(<0.004U)	(<0.004U)	(<0.004U)
Chromium, Hexavalent	0.016	(<0.011U)	(<0.011U)	(<0.011U)
Iron	0.3	0.073	0.153	(<0.05U)
Lead	---	(<0.005U)	(<0.005U)	(<0.005U)
Magnesium	---	1.47	5.02	1.16
Manganese	---	0.0072	0.0658	(<0.003U)
Selenium	0.0046	(<0.015U)	(<0.015U)	(<0.015U)
Silica	---	1.1	2.6	1.11
Sodium	---	65.1	58.5	64.7
Thallium	0.02	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	---	(<0.01U)	(<0.01U)	(<0.01U)

Water Quality Parameters (mg/L)

		SS-01	SS-02	SS-03
Analyte	**AWQS**			
Ammonia (expressed as N)	---	(<9.2U)	(<9.2U)	(<9.2U)
Phenolics	---	(<0.008U)	(<0.008U)	(<0.008U)
Sulfate	---	(<10U)	12.5J	(<10U)

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	---	0.954	0.966
Manganese	---	0.0053	0.0056
Selenium	---	(<0.015U)	(<0.015U)
Silica	---	2.16	2.13
Sodium	---	(<1U)	(<1U)
Thallium	---	(<0.02U)	(<0.02U)
Zinc	---	0.0112	(<0.01U)

Water Quality Parameters (mg/L)

		RB-01	SWB-01
Analyte	**AWQS**		
Ammonia (expressed as N)	---	(<9.2U)	(<9.2U)
Phenolics	---	(<0.008U)	(<0.008U)
Sulfate	---	(<10U)	(<10U)

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
August 2009

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.:	Personnel:	Client:
AP-MW1B	S. Bazilus/B. Vinal	Linde North America, Inc.
Location:	**Well Condition:**	**Weather:**
Niagara Falls	Locked	Mostly Sunny, 80°
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
WLI	8/24/2009	TOC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
UP	14:10	2"

Purge Date:	Purge Time:
8/25/2009	8:12
Purge Method:	**Greenstar Personnel:**
Low-Flow	SB/BV

Well Volume

A. Well Depth (ft):	D. Well Volume (ft3):	Depth/Height of Top of PVC:
27.83	0.37	N/A
B. Depth to Water (ft):	**E. Well Volume (L)**	**Pump Type:**
10.86	10.48	Peristaltic
C. Liquid Depth (ft) (A-B):		**Pump Designation:**
16.97		N/A

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)
8:15	11.25	0.4	0.15	7.46	0.871	149	0.00	12.3	211
8:20	11.25	1	0.20	7.65	0.853	107	0.00	12.9	153
8:25	11.28	2	0.20	7.85	0.847	124	0.00	12.3	72
8:30	11.30	3	0.20	7.97	0.841	161	0.00	12.5	37
8:35	11.31	4	0.20	8.01	0.841	178	0.00	12.5	24
8:40	11.35	5	0.20	8.05	0.842	166	0.00	12.2	16
8:45	11.38	6	0.20	8.05	0.840	52	0.00	12.3	12
8:50	11.40	7	0.20	8.06	0.836	78	0.00	12.3	8
8:55	11.41	8	0.20	8.06	0.836	101	0.00	12.4	7
9:00	11.40	9	0.20	8.07	0.833	88	0.00	12.4	6
9:05	11.40	10	0.20	8.07	0.832	98	0.00	12.4	4

Total Quantity of Water Removed:	10 L	**Sampling Time:**	9:15
Samplers:	SB/BV	**Split Sample With:**	AP-DUP-01
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: AP-DUP-01 collected from AP-MW-1B.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW2B	**Personnel:** S. Bazilus/B. Vinal	**Client:** Linde North America, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Mostly Sunny, 80°
Sounding Method: WLI	**Gauge Date:** 8/24/2009	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 14:20	**Well Diameter (in):** 2"

Purge Date: 8/25/2009	**Purge Time:** 9:40
Purge Method: Low-Flow	**Greenstar Personnel:** SB/BV

Well Volume

A. Well Depth (ft): 27.31	**D. Well Volume (ft3):** 0.34	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 11.87	**E. Well Volume (L):** 9.53	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 15.44		**Pump Designation:** N/A

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)
9:52	12.08	2	0.30	12.38	6.44	157	7.90	13.2	-114
9:55	12.09	3	0.30	12.45	6.59	110	1.27	13.5	-134
9:59	12.09	4	0.30	12.44	5.68	88	1.09	13.8	-134
10:02	12.09	5	0.30	12.52	5.51	74	1.62	13.8	-133
10:05	12.09	6	0.30	12.57	5.47	65	1.98	13.7	-134
10:09	12.09	7	0.30	12.61	5.42	49	2.21	13.8	-135
10:13	12.10	8	0.25	12.65	5.37	54	2.33	13.8	-135
10:17	12.11	9	0.25	12.67	5.35	47	2.38	13.7	-135

Total Quantity of Water Removed:	9 L	**Sampling Time:**	10:20
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: Kink in well casing; consider repairing.
pH probe was acting up /malfunctioning at start of purging; re-callibration seems to have solved issue.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.:	Personnel:	Client:
AP-MW3B	S. Bazilus/B. Vinal	Linde North America, Inc.
Location:	**Well Condition:**	**Weather:**
Niagara Falls	Locked	Mostly Sunny, 80°
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
WLI	8/24/2009	TOC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
UP	14:25	2"

Purge Date:	Purge Time:
8/24/2009	14:28
Purge Method:	**Greenstar Personnel:**
Hand Bail	SB/BV

Well Volume

A. Well Depth (ft):	D. Well Volume (ft3):	Depth/Height of Top of PVC:
18.41	0.21	N/A
B. Depth to Water (ft):	**E. Well Volume (L):**	**Pump Type:**
8.65	6.03	Poly Bailer
C. Liquid Depth (ft) (A-B):		**Pump Designation:**
9.76		N/A

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)
14:28	8.65	1	N/A	8.61	0.334	96.0	10.92	15.30	105
14:40	Dry	10.5	N/A	9.55	0.326	132.0	11.71	12.90	-38
10:50	8.72	N/A	N/A	10.88	0.25	95.0	10.84	17.40	86

Total Quantity of Water Removed:	10.5 L	**Sampling Time:**	10:55
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

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

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.:	Personnel:	Client:
AP-MW4B	S. Bazilus/B. Vinal	Linde North America, Inc.
Location:	**Well Condition:**	**Weather:**
Niagara Falls	Locked	Mostly Sunny, 80°
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
WLI	8/24/2009	TOC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
UP	14:49	2"

Purge Date:	Purge Time:
8/24/2009	14:50
Purge Method:	**Greenstar Personnel:**
Hand Bail	SB/BV

Well Volume

A. Well Depth (ft):	D. Well Volume (ft3):	Depth/Height of Top of PVC:
15.08	0.16	N/A
B. Depth to Water (ft):	**E. Well Volume (L):**	**Pump Type:**
7.95	4.40	Poly Bailer
C. Liquid Depth (ft) (A-B):		**Pump Designation:**
7.13		N/A

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)
14:51	7.95	1	N/A	8.66	0.567	109	10.24	16.0	80
15:00	Dry	7	N/A	8.14	0.642	> 999	11.13	13.4	98
11:05	7.98	N/A	N/A	9.23	0.504	118	11.22	17.6	120

Total Quantity of Water Removed:	7 L	**Sampling Time:**	11:10
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

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

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW5B	**Personnel:** S. Bazilus/B. Vinal	**Client:** Linde North America, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Mostly Sunny, 80°
Sounding Method: WLI	**Gauge Date:** 8/24/2009	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:05	**Well Diameter (in):** 2"

Purge Date: 8/24/2009	**Purge Time:** 15:10
Purge Method: Hand Bail	**Greenstar Personnel:** SB/BV

Well Volume

A. Well Depth (ft): 14.22	**D. Well Volume (ft3):** 0.17	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 6.47	**E. Well Volume (L):** 4.78	**Pump Type:** Poly Bailer
C. Liquid Depth (ft) (A-B): 7.75		**Pump Designation:** N/A

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)
15:10	6.47	1	N/A	7.61	0.640	24.9	9.16	19.5	111
15:17	Dry	6.5	N/A	7.63	0.723	867.0	10.89	15.3	108
11:20	6.51	N/A	N/A	8.61	0.548	78.0	9.83	20.1	149

Total Quantity of Water Removed:	6.5 L	**Sampling Time:**	11:25
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

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

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW6B	**Personnel:** S. Bazilus/B. Vinal	**Client:** Linde North America, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Mostly Sunny, 80°
Sounding Method: WLI	**Gauge Date:** 8/24/2009	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:22	**Well Diameter (in):** 2"

Purge Date: 8/25/2009	**Purge Time:** 11:50
Purge Method: Low-Flow	**Greenstar Personnel:** SB/BV

Well Volume

A. Well Depth (ft): 23.02	**D. Well Volume (ft3):** 0.41	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 4.01	**E. Well Volume (L):** 11.74	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 19.01		**Pump Designation:** N/A

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)
11:54	6.06	1	0.20	8.75	1.38	100	0.00	16.2	-101
11:59	7.24	2	0.20	8.56	1.38	61	0.00	16.1	-110
12:04	8.45	3	0.20	8.61	1.38	31	0.00	16.3	-114
12:09	9.20	4	0.20	8.68	1.38	30	0.00	15.7	-116
12:14	10.22	5	0.20	8.71	1.38	12	0.00	15.7	-118
12:19	11.00	6	0.20	8.66	1.38	7	0.00	15.7	-120
12:24	11.75	7	0.20	8.75	1.38	10	0.00	15.4	-120

Total Quantity of Water Removed:	7 L	**Sampling Time:**	12:30
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS:

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.:	Personnel:	Client:
AP-MW7B	S. Bazilus/B. Vinal	Linde North America, Inc.
Location:	**Well Condition:**	**Weather:**
Niagara Falls	Locked	Mostly Sunny, 80°
Sounding Method:	**Gauge Date:**	**Measurement Ref:**
WLI	8/24/2009	TOC
Stick Up/Down (ft):	**Gauge Time:**	**Well Diameter (in):**
UP	15:28	2"

Purge Date:	Purge Time:
8/25/2009	13:20
Purge Method:	**Greenstar Personnel:**
Low-Flow	SB/BV

Well Volume

A. Well Depth (ft):	D. Well Volume (ft3):	Depth/Height of Top of PVC:
21.79	0.25	N/A
B. Depth to Water (ft):	**E. Well Volume (L):**	**Pump Type:**
10.42	7.02	Peristaltic
C. Liquid Depth (ft) (A-B):		**Pump Designation:**
11.37		N/A

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)
13:25	12.85	1	0.20	9.28	0.199	18.0	1.05	18.7	10
13:30	13.90	2	0.20	9.24	0.199	15.0	0.89	18.4	5
13:35	15.08	3	0.20	9.31	0.198	10.0	0.77	18.0	-17
13:40	15.98	4	0.20	9.32	0.192	5.0	0.78	19.0	-19
13:45	16.80	5	0.20	9.52	0.192	3.0	0.73	19.5	-28
13:50	17.40	6	0.20	9.66	0.193	4.0	0.62	19.4	-46
13:55	18.05	7	0.20	9.71	0.193	11.0	0.68	18.5	-62

Total Quantity of Water Removed:	7 L	**Sampling Time:**	14:00
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

COMMENTS AND OBSERVATIONS: All WQ parameters didn't fully stabilize before sample was collected (well was in danger of running dry).

FOR NEXT SAMPLING EVENT: Consider hand bailing dry and sampling following day.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW8B	**Personnel:** S. Bazilus/B. Vinal	**Client:** Linde North America, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Mostly Sunny, 80°
Sounding Method: WLI	**Gauge Date:** 8/24/2009	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:36	**Well Diameter (in):** 2"

Purge Date: 8/24/2009	**Purge Time:** 15:38
Purge Method: Hand Bail	**Greenstar Personnel:** SB/BV

Well Volume

A. Well Depth (ft): 15.51	**D. Well Volume (ft3):** 0.22	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 5.30	**E. Well Volume (L):** 6.30	**Pump Type:** Poly Bailer
C. Liquid Depth (ft) (A-B): 10.21		**Pump Designation:** N/A

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)
15:38	5.30	1	N/A	7.58	0.766	46	9.18	19.7	123
15:45	Dry	8	N/A	7.65	0.869	619	11.33	15.5	116
14:30	5.36	N/A	N/A	8.50	0.66	57	9.83	18.8	135

Total Quantity of Water Removed:	8 L	**Sampling Time:**	14:35
Samplers:	SB/BV	**Split Sample With:**	N/A
Sampling Date:	25-Aug-09	**Sample Type:**	Grab

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

Attachment C

Chain-of-Custody Records

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: GREENSTAR ENG.	Project Manager: Chip McLeod	Date: 08/25/09	Chain of Custody Number: 133316
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number:	Page 1 of 2
City: Wappingers Falls NY · State: NY · Zip Code: 12590	Site Contact: · Lab Contact: JRK		
Project Name and Location (State): AIRCO - Semi Annual GW Monitoring	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No:			

Analysis (Attach list if more space is needed): Me, TS, SO4, Cr+6 WQ, Ammonia, Phenols

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Me	TS	SO4	Cr+6 WQ	Ammonia	Phenols	Special Instructions/ Conditions of Receipt
AP-MW-1B	08/25/09	0915		X			1	2	2				X	X	X	X	X	X	
AP-MW-2B	↓	1020		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-3B	↓	1055		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-4B	↓	1110		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-5B	↓	1125		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-6B	↓	1230		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-7B	↓	1400		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-8B	↓	1435		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-DUP-01	↓	N/A		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-01	↓	1200		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-02	↓	1210		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-03	↓	1220		↓			↓	↓	↓				X	X	X	X	X	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: [signature]	08/25/09	1555	1. Received By: [signature]	8/25/09	1555
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments: ★ HEX CHROME - SHORT HOLD ★ 24.8

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: GREENSTAR ENG.	Project Manager: Chip McLeod	Date: 08/25/09	Chain of Custody Number: 133317
Address: 6 GELLATLY DRIVE	Telephone Number (Area Code)/Fax Number: 845-223-9944 / 9955	Lab Number:	Page 2 of 2
City: WAPPINGERS FALLS / State: NY / Zip Code: 12590	Site Contact:	Lab Contact: JRK	
Project Name and Location (State): AIRCO - SEMI ANNUAL GW MONITOR	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: me	TSS	SO4	Cr+6 WB	AMMONIA	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-RB-01	08/25/09	1500		X			1	2	2				X	X	X	X	X	X	
AP-SWB-01		1510		X									X	X	X	X	X	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	08/25/09		1. Received By	8/25/09	1555
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments
* HEX CHROME - SHORT HOLD *

204.5

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

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 Environmental	JRK	8-10-09	110805
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
6 Gellatly Dr.	(845) 223-9944		Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Wappingers Falls	NY		Chip McLeod	

Project Name and Location (State): Airco Parcel

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: Quarterly Discharge monitoring

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	dme	200.8	PP VOAS	TKN	AMMONIA	COD	Nitrate/nitrite	BOD	TDS/TSS	D.O./PH-1	CR+6 WQ	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-EWE-01	8-10-09	15:00		X				4	2	1	2															

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)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	8-10-09	15:45	[signature] Buffarzo	08/10/09	1545
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments: 8.0°C w/ICE SAME DAY

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

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 Environmental	JRK	11-16-09	099384
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
6 Gellatly Dr.	(845) 223-9944		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Wappingers Falls	NY	12590	Chip McLeod	
Project Name and Location (State)	**Carrier/Waybill Number**
Airco Parcel	
Contract/Purchase Order/Quote No.
Quarterly Discharge Monitoring

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 1200.8	PP VOAS	TKN	Ammonia	Nitrate	Nitrite	BOD	TDS/TSS	D.O./PH-1	CR+6 WQ	TPhenols	Estflrat	Special Instructions/ Conditions of Receipt
AP-EWE-01	9-16-09	16:00		1			4	2	1	2															

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)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Brad Z Mc	11-16	18:00		11/16/09	1800
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

Attachment D

Laboratory Analytical Results for Groundwater and Surface Water Sampling August 2009

Analytical Report

Work Order: RSH0748

Project Description

Semi-Annual GW Monitoring

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC

6 Gellatly Drive

Wappinger Falls, NY 12590

Jason Kacalski

Project Manager

jason.kacalski@testamericainc.com

Tuesday, September 15, 2009

Revision: 1

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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 accre ditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
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Work Order: RSH0748

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Case Narrative

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. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 37 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

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Project: Semi-Annual GW Monitoring
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The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (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.

SpecificMethod	Analyte	Units	Client RL	Lab PQL
420.4	Phenolics, Total Recoverable	ug/L	8.0	10.0

Greenstar Environmental Solutions, LLC
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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D08	Dilution required due to high concentration of target analyte(s)
J	Sample result is greater than the MDL but below the CRDL
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-01 (AP-MW-1B - Water)						**Sampled: 08/25/09 09:15**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.119**		0.0500	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Magnesium	**65.5**		0.200	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Manganese	**0.808**		0.0030	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Sodium	**113**		1.0	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Zinc	**0.627**		0.0100	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**238**	D08	10.0	NR	mg/L	5.00	09/11/09 20:48	BWM	9I14029	300
Metals (ICP)										
Si	**6990**		2500	250	ug/L	5.00	09/09/09 16:36	NP	30912	6010B
Sample ID: RSH0748-02 (AP-MW-2B - Water)						**Sampled: 08/25/09 10:20**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.777**		0.0040	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Sodium	**32.3**		1.0	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
General Chemistry Parameters										
Chromium, Hexavalent	**233**		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Anions by EPA Method 300.0										
Sulfate	**22.0**		10.0	NR	mg/L	1.00	09/11/09 20:58	BWM	9I14029	300
Metals (ICP)										
Si	**395**	J	500	50.0	ug/L	1.00	09/09/09 18:56	NP	30912	6010B
Sample ID: RSH0748-03 (AP-MW-3B - Water)						**Sampled: 08/25/09 10:55**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Magnesium	**8.60**		0.200	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Manganese	**0.0117**		0.0030	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Sodium	**52.8**		1.0	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**67.2**		10.0	NR	mg/L	1.00	09/11/09 21:08	BWM	9I14029	300
Metals (ICP)										
Si	**6510**		2500	250	ug/L	5.00	09/09/09 18:37	NP	30958	6010B
Sample ID: RSH0748-04 (AP-MW-4B - Water)						**Sampled: 08/25/09 11:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.257**		0.0040	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Iron	**0.676**		0.0500	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Magnesium	**51.1**		0.200	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Manganese	**0.0108**		0.0030	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Sodium	**92.8**		1.0	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Zinc	**0.0132**		0.0100	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-04 (AP-MW-4B - Water) - cont.						**Sampled: 08/25/09 11:10**		**Recvd: 08/25/09 15:55**		
General Chemistry Parameters										
Chromium, Hexavalent	**212**		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Anions by EPA Method 300.0										
Sulfate	**156**	D08	10.0	NR	mg/L	5.00	09/11/09 21:18	BWM	9I14029	300
Metals (ICP)										
Si	**11400**		2500	250	ug/L	5.00	09/09/09 18:43	NP	30958	6010B
Sample ID: RSH0748-05 (AP-MW-5B - Water)						**Sampled: 08/25/09 11:25**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.226**		0.0500	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Magnesium	**85.0**		0.200	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Manganese	**0.0081**		0.0030	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Sodium	**27.2**		1.0	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Zinc	**0.0347**		0.0100	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**145**	D08	10.0	NR	mg/L	2.00	09/11/09 21:58	BWM	9I14029	300
Metals (ICP)										
Si	**10100**		2500	250	ug/L	5.00	09/09/09 18:49	NP	30958	6010B
Sample ID: RSH0748-06 (AP-MW-6B - Water)						**Sampled: 08/25/09 12:30**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.415**		0.0500	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Magnesium	**75.7**		0.200	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Manganese	**0.156**		0.0030	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Sodium	**72.6**		1.0	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**350**	D08	10.0	NR	mg/L	5.00	09/11/09 22:09	BWM	9I14029	300
Metals (ICP)										
Si	**5860**		500	50.0	ug/L	1.00	09/11/09 14:48	NP	31040	6010B
Sample ID: RSH0748-07 (AP-MW-7B - Water)						**Sampled: 08/25/09 14:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.0040**		0.0040	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Iron	**0.0809**		0.0500	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Magnesium	**10.0**		0.200	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Manganese	**0.0309**		0.0030	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Sodium	**57.5**		1.0	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**37.2**		10.0	NR	mg/L	1.00	09/11/09 22:19	BWM	9I14029	300
Metals (ICP)										

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-07 (AP-MW-7B - Water) - cont.						**Sampled: 08/25/09 14:00**		**Recvd: 08/25/09 15:55**		
Si	**4710**		500	50.0	ug/L	1.00	09/11/09 15:03	NP	31040	6010B
Sample ID: RSH0748-08 (AP-MW-8B - Water)						**Sampled: 08/25/09 14:35**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.173**		0.0040	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Iron	**0.311**		0.0500	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Magnesium	**71.1**		0.200	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Manganese	**0.134**		0.0030	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Selenium	**0.0401**		0.0150	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Sodium	**87.8**		1.0	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Zinc	**0.0845**		0.0100	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**237**	D08	10.0	NR	mg/L	5.00	09/11/09 22:29	BWM	9I14029	300
Metals (ICP)										
Si	**7510**		500	50.0	ug/L	1.00	09/11/09 15:08	NP	31040	6010B
Sample ID: RSH0748-09 (AP-MW-DUP-01 - Water)						**Sampled: 08/25/09**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.123**		0.0500	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Magnesium	**64.4**		0.200	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Manganese	**0.815**		0.0030	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Sodium	**111**		1.0	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Zinc	**0.627**		0.0100	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**234**	D08	10.0	NR	mg/L	5.00	09/11/09 22:39	BWM	9I14029	300
Metals (ICP)										
Si	**6600**		500	50.0	ug/L	1.00	09/11/09 15:14	NP	31040	6010B
Sample ID: RSH0748-10 (AP-SS-01 - Water)						**Sampled: 08/25/09 12:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.0733**		0.0500	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Magnesium	**1.47**		0.200	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Manganese	**0.0072**		0.0030	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Sodium	**65.1**		1.0	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Metals (ICP)										
Si	**1100**		500	50.0	ug/L	1.00	09/11/09 15:20	NP	31040	6010B
Sample ID: RSH0748-11 (AP-SS-02 - Water)						**Sampled: 08/25/09 12:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Iron	**0.153**		0.0500	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Magnesium	**5.02**		0.200	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Manganese	**0.0658**		0.0030	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-11 (AP-SS-02 - Water) - cont.						**Sampled: 08/25/09 12:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods - cont.										
Sodium	**58.5**		1.0	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Anions by EPA Method 300.0										
Sulfate	**12.5**		10.0	NR	mg/L	1.00	09/05/09 22:28	BWM	9I08056	300
Metals (ICP)										
Si	**2600**		500	50.0	ug/L	1.00	09/11/09 15:26	NP	31040	6010B
Sample ID: RSH0748-12 (AP-SS-03 - Water)						**Sampled: 08/25/09 12:20**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Magnesium	**1.16**		0.200	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Sodium	**64.7**		1.0	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Metals (ICP)										
Si	**1110**		500	50.0	ug/L	1.00	09/11/09 15:43	NP	31040	6010B
Sample ID: RSH0748-13 (AP-RB-01 - Water)						**Sampled: 08/25/09 15:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Magnesium	**0.954**		0.200	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Manganese	**0.0053**		0.0030	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Zinc	**0.0112**		0.0100	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Metals (ICP)										
Si	**2160**		500	50.0	ug/L	1.00	09/11/09 15:49	NP	31040	6010B
Sample ID: RSH0748-14 (AP-SWB-01 - Water)						**Sampled: 08/25/09 15:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Magnesium	**0.966**		0.200	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Manganese	**0.0056**		0.0030	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Metals (ICP)										
Si	**2130**		500	50.0	ug/L	1.00	09/11/09 15:54	NP	31040	6010B

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-MW-1B	RSH0748-01	Water	08/25/09 09:15	08/25/09 15:55	
AP-MW-2B	RSH0748-02	Water	08/25/09 10:20	08/25/09 15:55	
AP-MW-3B	RSH0748-03	Water	08/25/09 10:55	08/25/09 15:55	
AP-MW-4B	RSH0748-04	Water	08/25/09 11:10	08/25/09 15:55	
AP-MW-5B	RSH0748-05	Water	08/25/09 11:25	08/25/09 15:55	
AP-MW-6B	RSH0748-06	Water	08/25/09 12:30	08/25/09 15:55	
AP-MW-7B	RSH0748-07	Water	08/25/09 14:00	08/25/09 15:55	
AP-MW-8B	RSH0748-08	Water	08/25/09 14:35	08/25/09 15:55	
AP-MW-DUP-01	RSH0748-09	Water	08/25/09	08/25/09 15:55	
AP-SS-01	RSH0748-10	Water	08/25/09 12:00	08/25/09 15:55	
AP-SS-02	RSH0748-11	Water	08/25/09 12:10	08/25/09 15:55	
AP-SS-03	RSH0748-12	Water	08/25/09 12:20	08/25/09 15:55	
AP-RB-01	RSH0748-13	Water	08/25/09 15:00	08/25/09 15:55	
AP-SWB-01	RSH0748-14	Water	08/25/09 15:10	08/25/09 15:55	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-01 (AP-MW-1B - Water)						**Sampled: 08/25/09 09:15**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Iron	**0.119**		0.0500	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Magnesium	**65.5**		0.200	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Manganese	**0.808**		0.0030	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Sodium	**113**		1.0	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
Zinc	**0.627**		0.0100	NR	mg/L	1.00	08/28/09 17:20	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:21	RMM	9H26029	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:46	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**238**	D08	10.0	NR	mg/L	5.00	09/11/09 20:48	BWM	9I14029	300
Metals (ICP)										
Si	**6990**		2500	250	ug/L	5.00	09/09/09 16:36	NP	30912	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-02 (AP-MW-2B - Water)						**Sampled: 08/25/09 10:20**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Chromium	**0.777**		0.0040	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Iron	ND		0.0500	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Magnesium	ND		0.200	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Manganese	ND		0.0030	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Sodium	**32.3**		1.0	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 17:25	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:22	RMM	9H26029	350.1
Chromium, Hexavalent	**233**		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:46	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**22.0**		10.0	NR	mg/L	1.00	09/11/09 20:58	BWM	9I14029	300
Metals (ICP)										
Si	**395**	J	500	50.0	ug/L	1.00	09/09/09 18:56	NP	30912	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-03 (AP-MW-3B - Water)						**Sampled: 08/25/09 10:55**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Iron	ND		0.0500	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Magnesium	**8.60**		0.200	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Manganese	**0.0117**		0.0030	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Sodium	**52.8**		1.0	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 17:30	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:23	RMM	9H26029	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:46	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**67.2**		10.0	NR	mg/L	1.00	09/11/09 21:08	BWM	9I14029	300
Metals (ICP)										
Si	**6510**		2500	250	ug/L	5.00	09/09/09 18:37	NP	30958	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-04 (AP-MW-4B - Water)						**Sampled: 08/25/09 11:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Chromium	**0.257**		0.0040	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Iron	**0.676**		0.0500	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Magnesium	**51.1**		0.200	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Manganese	**0.0108**		0.0030	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Sodium	**92.8**		1.0	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
Zinc	**0.0132**		0.0100	NR	mg/L	1.00	08/28/09 18:07	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:28	RMM	9H26031	350.1
Chromium, Hexavalent	**212**		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:46	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**156**	D08	10.0	NR	mg/L	5.00	09/11/09 21:18	BWM	9I14029	300
Metals (ICP)										
Si	**11400**		2500	250	ug/L	5.00	09/09/09 18:43	NP	30958	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-05 (AP-MW-5B - Water)						**Sampled: 08/25/09 11:25**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Iron	**0.226**		0.0500	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Magnesium	**85.0**		0.200	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Manganese	**0.0081**		0.0030	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Sodium	**27.2**		1.0	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
Zinc	**0.0347**		0.0100	NR	mg/L	1.00	08/28/09 18:12	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:29	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:46	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**145**	D08	10.0	NR	mg/L	2.00	09/11/09 21:58	BWM	9I14029	300
Metals (ICP)										
Si	**10100**		2500	250	ug/L	5.00	09/09/09 18:49	NP	30958	6010B

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6 Gellatly Drive
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-06 (AP-MW-6B - Water)						**Sampled: 08/25/09 12:30**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Iron	**0.415**		0.0500	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Magnesium	**75.7**		0.200	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Manganese	**0.156**		0.0030	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Sodium	**72.6**		1.0	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 18:17	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:30	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**350**	D08	10.0	NR	mg/L	5.00	09/11/09 22:09	BWM	9I14029	300
Metals (ICP)										
Si	**5860**		500	50.0	ug/L	1.00	09/11/09 14:48	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-07 (AP-MW-7B - Water)						**Sampled: 08/25/09 14:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Chromium	**0.0040**		0.0040	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Iron	**0.0809**		0.0500	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Magnesium	**10.0**		0.200	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Manganese	**0.0309**		0.0030	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Sodium	**57.5**		1.0	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 18:22	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:31	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**37.2**		10.0	NR	mg/L	1.00	09/11/09 22:19	BWM	9I14029	300
Metals (ICP)										
Si	**4710**		500	50.0	ug/L	1.00	09/11/09 15:03	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-08 (AP-MW-8B - Water)						**Sampled: 08/25/09 14:35**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Chromium	**0.173**		0.0040	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Iron	**0.311**		0.0500	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Magnesium	**71.1**		0.200	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Manganese	**0.134**		0.0030	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Selenium	**0.0401**		0.0150	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Sodium	**87.8**		1.0	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
Zinc	**0.0845**		0.0100	NR	mg/L	1.00	08/28/09 18:27	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:32	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**237**	D08	10.0	NR	mg/L	5.00	09/11/09 22:29	BWM	9I14029	300
Metals (ICP)										
Si	**7510**		500	50.0	ug/L	1.00	09/11/09 15:08	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-09 (AP-MW-DUP-01 - Water)						**Sampled: 08/25/09**			**Recvd: 08/25/09 15:55**	
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Iron	**0.123**		0.0500	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Magnesium	**64.4**		0.200	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Manganese	**0.815**		0.0030	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Sodium	**111**		1.0	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
Zinc	**0.627**		0.0100	NR	mg/L	1.00	08/28/09 18:32	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:33	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	**234**	D08	10.0	NR	mg/L	5.00	09/11/09 22:39	BWM	9I14029	300
Metals (ICP)										
Si	**6600**		500	50.0	ug/L	1.00	09/11/09 15:14	NP	31040	6010B

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-10 (AP-SS-01 - Water)						**Sampled: 08/25/09 12:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Iron	**0.0733**		0.0500	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Magnesium	**1.47**		0.200	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Manganese	**0.0072**		0.0030	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Sodium	**65.1**		1.0	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 18:38	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:34	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:37	JMM	9I03003	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/11/09 22:49	BWM	9I14029	300
Metals (ICP)										
Si	**1100**		500	50.0	ug/L	1.00	09/11/09 15:20	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-11 (AP-SS-02 - Water)						**Sampled: 08/25/09 12:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Iron	**0.153**		0.0500	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Magnesium	**5.02**		0.200	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Manganese	**0.0658**		0.0030	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Sodium	**58.5**		1.0	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 18:43	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:35	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03004	420.4
Anions by EPA Method 300.0										
Sulfate	**12.5**		10.0	NR	mg/L	1.00	09/05/09 22:28	BWM	9I08056	300
Metals (ICP)										
Si	**2600**		500	50.0	ug/L	1.00	09/11/09 15:26	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-12 (AP-SS-03 - Water)						**Sampled: 08/25/09 12:20**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Iron	ND		0.0500	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Magnesium	**1.16**		0.200	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Manganese	ND		0.0030	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Sodium	**64.7**		1.0	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 18:48	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:36	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 09:54	JMM	9I03004	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/05/09 22:38	BWM	9I08056	300
Metals (ICP)										
Si	**1110**		500	50.0	ug/L	1.00	09/11/09 15:43	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-13 (AP-RB-01 - Water)						**Sampled: 08/25/09 15:00**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Iron	ND		0.0500	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Magnesium	**0.954**		0.200	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Manganese	**0.0053**		0.0030	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Sodium	ND		1.0	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
Zinc	**0.0112**		0.0100	NR	mg/L	1.00	08/28/09 19:04	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:37	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 10:03	JMM	9I03004	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/05/09 22:48	BWM	9I08056	300
Metals (ICP)										
Si	**2160**		500	50.0	ug/L	1.00	09/11/09 15:49	NP	31040	6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0748-14 (AP-SWB-01 - Water)						**Sampled: 08/25/09 15:10**		**Recvd: 08/25/09 15:55**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Iron	ND		0.0500	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Lead	ND		0.0050	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Magnesium	**0.966**		0.200	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Manganese	**0.0056**		0.0030	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Sodium	ND		1.0	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	08/28/09 19:09	AMH	9H27048	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/09 13:40	RMM	9H26031	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/09 22:47	JFR	9H25066	7196A
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	09/04/09 10:03	JMM	9I03004	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/05/09 22:59	BWM	9I08056	300
Metals (ICP)										
Si	**2130**		500	50.0	ug/L	1.00	09/11/09 15:54	NP	31040	6010B

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Anions by EPA Method 300.0									
300	9I08056	RSH0748-11	5.00	mL	5.00	mL	09/05/09 22:08	BWM	Direct Injection - Anions
300	9I08056	RSH0748-12	5.00	mL	5.00	mL	09/05/09 22:08	BWM	Direct Injection - Anions
300	9I08056	RSH0748-13	5.00	mL	5.00	mL	09/05/09 22:08	BWM	Direct Injection - Anions
300	9I08056	RSH0748-14	5.00	mL	5.00	mL	09/05/09 22:08	BWM	Direct Injection - Anions
300	9I14029	RSH0748-01	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-02	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-03	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-04	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-05	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-06	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-07	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-08	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-09	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
300	9I14029	RSH0748-10	5.00	mL	5.00	mL	09/11/09 19:37	BWM	Direct Injection - Anions
General Chemistry Parameters									
350.1	9H26029	RSH0748-01	5.00	mL	5.00	mL	08/26/09 09:50	RMM	Ammonia
350.1	9H26029	RSH0748-02	5.00	mL	5.00	mL	08/26/09 09:50	RMM	Ammonia
350.1	9H26029	RSH0748-03	5.00	mL	5.00	mL	08/26/09 09:50	RMM	Ammonia
350.1	9H26031	RSH0748-04	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-05	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-06	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-07	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-08	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-09	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-10	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-11	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-12	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-13	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
350.1	9H26031	RSH0748-14	5.00	mL	5.00	mL	08/26/09 09:52	RMM	Ammonia
420.4	9I03003	RSH0748-01	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-02	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-03	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-04	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-05	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-06	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-07	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
420.4	9I03003	RSH0748-08	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-09	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03003	RSH0748-10	50.00	mL	50.00	mL	09/03/09 00:36	JME	TRP Distillation
420.4	9I03004	RSH0748-11	50.00	mL	50.00	mL	09/03/09 00:38	JME	TRP Distillation
420.4	9I03004	RSH0748-12	50.00	mL	50.00	mL	09/03/09 00:38	JME	TRP Distillation
420.4	9I03004	RSH0748-13	50.00	mL	50.00	mL	09/03/09 00:38	JME	TRP Distillation
420.4	9I03004	RSH0748-14	50.00	mL	50.00	mL	09/03/09 00:38	JME	TRP Distillation
7196A	9H25066	RSH0748-01	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-02	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-03	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-04	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-05	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-06	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-07	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-08	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-09	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-10	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-11	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-12	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-13	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
7196A	9H25066	RSH0748-14	25.00	mL	25.00	mL	08/25/09 21:00	JFR	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	9H27048	RSH0748-01	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-02	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-03	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-04	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-05	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-06	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-07	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-08	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-09	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-10	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-11	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-12	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-13	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A
200.7	9H27048	RSH0748-14	50.00	mL	50.00	mL	08/28/09 10:00	MLD	3005A

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Reported: 09/15/09 13:44

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 08/28/09 (Lab Number:9H27048-BLK1, Batch: 9H27048)											
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Iron			0.0500	NR	mg/L	ND					
Lead			0.0050	NR	mg/L	ND					
Magnesium			0.200	NR	mg/L	ND					
Manganese			0.0030	NR	mg/L	ND					B
Selenium			0.0150	NR	mg/L	ND					
Sodium			1.0	NR	mg/L	ND					
Thallium			0.0200	NR	mg/L	ND					
Zinc			0.0100	NR	mg/L	ND					
LCS Analyzed: 08/28/09 (Lab Number:9H27048-BS1, Batch: 9H27048)											
Cadmium		0.200	0.0010	NR	mg/L	0.202	101	85-115			
Chromium		0.200	0.0040	NR	mg/L	0.203	101	85-115			
Iron		10.0	0.0500	NR	mg/L	9.87	99	85-115			
Lead		0.200	0.0050	NR	mg/L	0.203	101	85-115			
Magnesium		10.0	0.200	NR	mg/L	10.3	103	85-115			
Manganese		0.200	0.0030	NR	mg/L	0.201	100	85-115			
Selenium		0.200	0.0150	NR	mg/L	0.200	100	85-115			
Sodium		10.0	1.0	NR	mg/L	10.3	103	85-115			
Thallium		0.200	0.0200	NR	mg/L	0.202	101	85-115			
Zinc		0.200	0.0100	NR	mg/L	0.199	100	85-115			
Matrix Spike Analyzed: 08/28/09 (Lab Number:9H27048-MS1, Batch: 9H27048)											
QC Source Sample: RSH0748-03											
Cadmium	ND	0.200	0.0010	NR	mg/L	0.204	102	70-130			
Chromium	ND	0.200	0.0040	NR	mg/L	0.203	102	70-130			
Iron	0.0246	10.0	0.0500	NR	mg/L	9.98	100	70-130			
Lead	ND	0.200	0.0050	NR	mg/L	0.202	101	70-130			
Magnesium	8.60	10.0	0.200	NR	mg/L	19.0	104	70-130			
Manganese	0.0117	0.200	0.0030	NR	mg/L	0.215	102	70-130			
Selenium	ND	0.200	0.0150	NR	mg/L	0.204	102	70-130			
Sodium	52.8	10.0	1.0	NR	mg/L	64.0	111	70-130			
Thallium	ND	0.200	0.0200	NR	mg/L	0.207	103	70-130			
Zinc	0.00323	0.200	0.0100	NR	mg/L	0.204	100	70-130			
Matrix Spike Dup Analyzed: 08/28/09 (Lab Number:9H27048-MSD1, Batch: 9H27048)											
QC Source Sample: RSH0748-03											
Cadmium	ND	0.200	0.0010	NR	mg/L	0.203	102	70-130	0.3	20	
Chromium	ND	0.200	0.0040	NR	mg/L	0.203	102	70-130	0.02	20	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Matrix Spike Dup Analyzed: 08/28/09 (Lab Number:9H27048-MSD1, Batch: 9H27048)											
QC Source Sample: RSH0748-03											
Iron	0.0246	10.0	0.0500	NR	mg/L	9.97	99	70-130	0.08	20	
Lead	ND	0.200	0.0050	NR	mg/L	0.204	102	70-130	0.8	20	
Magnesium	8.60	10.0	0.200	NR	mg/L	19.1	105	70-130	0.5	20	
Manganese	0.0117	0.200	0.0030	NR	mg/L	0.215	102	70-130	0.2	20	
Selenium	ND	0.200	0.0150	NR	mg/L	0.198	99	70-130	3	20	
Sodium	52.8	10.0	1.0	NR	mg/L	65.1	122	70-130	2	20	
Thallium	ND	0.200	0.0200	NR	mg/L	0.207	104	70-130	0.1	20	
Zinc	0.00323	0.200	0.0100	NR	mg/L	0.203	100	70-130	0.7	20	

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Work Order: RSH0748

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 08/25/09 (Lab Number:9H25066-BLK1, Batch: 9H25066)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 08/25/09 (Lab Number:9H25066-BS1, Batch: 9H25066)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	48.6	97	85-115			
Duplicate Analyzed: 08/25/09 (Lab Number:9H25066-DUP1, Batch: 9H25066)											
QC Source Sample: RSH0748-14											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				20	
Matrix Spike Analyzed: 08/25/09 (Lab Number:9H25066-MS1, Batch: 9H25066)											
QC Source Sample: RSH0748-14											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	63.0	126	75-120			M7
General Chemistry Parameters											
Blank Analyzed: 08/26/09 (Lab Number:9H26029-BLK1, Batch: 9H26029)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 08/26/09 (Lab Number:9H26029-BS1, Batch: 9H26029)											
Ammonia as N		0.750	0.020	NR	mg/L as N	0.754	101	90-110			
Duplicate Analyzed: 08/26/09 (Lab Number:9H26029-DUP1, Batch: 9H26029)											
QC Source Sample: RSH0748-03											
Ammonia as N	0.565		0.020	NR	mg/L as N	0.563			0.5	20	
Matrix Spike Analyzed: 08/26/09 (Lab Number:9H26029-MS1, Batch: 9H26029)											
QC Source Sample: RSH0748-03											
Ammonia as N	0.565	0.200	0.020	NR	mg/L as N	0.779	107	54-150			
General Chemistry Parameters											
Blank Analyzed: 08/26/09 (Lab Number:9H26031-BLK1, Batch: 9H26031)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 08/26/09 (Lab Number:9H26031-BS1, Batch: 9H26031)											
Ammonia as N		0.750	0.020	NR	mg/L as N	0.751	100	90-110			
General Chemistry Parameters											
Blank Analyzed: 09/04/09 (Lab Number:9I03003-BLK1, Batch: 9I03003)											
Phenolics, Total Recoverable			8.00	NR	ug/L	ND					
LCS Analyzed: 09/04/09 (Lab Number:9I03003-BS1, Batch: 9I03003)											

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 09/04/09 (Lab Number:9I03003-BS1, Batch: 9I03003)											
Phenolics, Total Recoverable		765	40.0	NR	ug/L	678	89	75-125			D08
Duplicate Analyzed: 09/04/09 (Lab Number:9I03003-DUP1, Batch: 9I03003)											
QC Source Sample: RSH0748-08											
Phenolics, Total Recoverable	ND		8.00	NR	ug/L	ND				20	
Matrix Spike Analyzed: 09/04/09 (Lab Number:9I03003-MS1, Batch: 9I03003)											
QC Source Sample: RSH0748-09											
Phenolics, Total Recoverable	ND	100	8.00	NR	ug/L	ND		60-143			M8
General Chemistry Parameters											
Blank Analyzed: 09/04/09 (Lab Number:9I03004-BLK1, Batch: 9I03004)											
Phenolics, Total Recoverable			8.00	NR	ug/L	ND					
LCS Analyzed: 09/04/09 (Lab Number:9I03004-BS1, Batch: 9I03004)											
Phenolics, Total Recoverable		765	40.0	NR	ug/L	687	90	75-125			D08

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Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Anions by EPA Method 300.0											
Blank Analyzed: 09/05/09 (Lab Number:9I08056-BLK1, Batch: 9I08056)											
Sulfate			10.0	NR	mg/L	ND					
LCS Analyzed: 09/05/09 (Lab Number:9I08056-BS1, Batch: 9I08056)											
Sulfate		20.0	2.00	NR	mg/L	20.4	102	90-110			
Anions by EPA Method 300.0											
Blank Analyzed: 09/11/09 (Lab Number:9I14029-BLK1, Batch: 9I14029)											
Sulfate			10.0	NR	mg/L	ND					
LCS Analyzed: 09/11/09 (Lab Number:9I14029-BS1, Batch: 9I14029)											
Sulfate		20.0	2.00	NR	mg/L	20.2	101	90-110			
Matrix Spike Analyzed: 09/11/09 (Lab Number:9I14029-MS1, Batch: 9I14029)											
QC Source Sample: RSH0748-04											
Sulfate	156	125	10.0	NR	mg/L	278	98	75-125			D08

Greenstar Environmental Solutions, LLC
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Wappinger Falls, NY 12590

Work Order: RSH0748

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 08/25/09
Reported: 09/15/09 13:44

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Metals (ICP)											
Blank Analyzed: 09/09/09 (Lab Number:220-31021-43, Batch: 30912)											
Si			500	50.0	ug/L	109		-			J
Metals (ICP)											
Blank Analyzed: 09/09/09 (Lab Number:220-31021-73, Batch: 30958)											
Si			500	50.0	ug/L	99.6		-			J
Metals (ICP)											
Blank Analyzed: 09/11/09 (Lab Number:220-31107-42, Batch: 31040)											
Si			500	50.0	ug/L	75.3		-			J

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	08/25/09	133316
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number	Page 1 of 2
City: Wappingers Falls, NY; State: NY; Zip Code: 12590	Site Contact; Lab Contact: JRK		
Project Name and Location (State): AIRCO - Semi Annual GW Monitoring	Carrier/Waybill Number		
Contract/Purchase Order/Quote No			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

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	me	TSi	SO4	Cr+6 WQ	AMMONIA	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-MW-1B	08/25/09	0915		X			1	2	2				X	X	X	X	X	X	
AP-MW-2B	↓	1020		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-3B	↓	1055		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-4B	↓	1110		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-5B	↓	1125		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-6B	↓	1230		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-7B	↓	1400		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-8B	↓	1435		↓			↓	↓	↓				X	X	X	X	X	X	
AP-MW-DUP-01	↓	N/A		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-01	↓	1200		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-02	↓	1210		↓			↓	↓	↓				X	X	X	X	X	X	
AP-SS-03	↓	1220		↓			↓	↓	↓				X	X	X	X	X	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: [signature]	08/25/09	1555	1. Received By: [signature]	8/25/09	1555
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ★ HEX CHROME - SHORT HOLD ★ (@4.8

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: GREENSTAR ENG.	Project Manager: Chip McLeod	Date: 08/25/09	Chain of Custody Number: 133317
Address: 6 GELLATLY DRIVE	Telephone Number (Area Code)/Fax Number: 845-223-9944 / 9955	Lab Number:	Page 2 of 2
City: WAPPINGERS FALLS / State: NY / Zip Code: 12590	Site Contact:	Lab Contact: JRK	
Project Name and Location (State): AIRCO - SEMI ANNUAL GW MONITOR	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: me	TSS	SO4	Cr+6 WB	AMMONIA	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-RB-01	08/25/09	1500		X			1	2	2				X	X	X	X	X	X	
AP-SWB-01		1510		X									X	X	X	X	X	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	08/25/09		1. Received By	8/25/09	1555
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments
* HEX CHROME - SHORT HOLD *

204.5

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

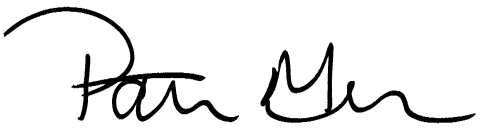
Job Number: 220-9976-1

SDG Number: Niagara Falls - RSH0748

Job Description: Greenstar Environmental - RSH0748

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

Attention: Mr. Jason Kacalski



Approved for release.
Patty A Mercure
9/14/2009 12:19 PM

Designee for
Johanna Dubauskas
Project Manager I
johanna.dubauskas@testamericainc.com
09/14/2009

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

Table of Contents

Job Narrative
220-J9976-1

Comments
No additional comments.

Receipt
The following sample was received at the laboratory with no sample collection time documented on the chain of custody: RSH0748-09 (220-9976-9). As a result, a sample collection time of 12:00 a.m. on the date of collection has been used.

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

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-9976-1	**RSH0748-01**					
Si		6990		2500	ug/L	6010B
220-9976-2	**RSH0748-02**					
Si		395	J	500	ug/L	6010B
220-9976-3	**RSH0748-03**					
Si		6510		2500	ug/L	6010B
220-9976-4	**RSH0748-04**					
Si		11400		2500	ug/L	6010B
220-9976-5	**RSH0748-05**					
Si		10100		2500	ug/L	6010B
220-9976-6	**RSH0748-06**					
Si		5860		500	ug/L	6010B
220-9976-7	**RSH0748-07**					
Si		4710		500	ug/L	6010B
220-9976-8	**RSH0748-08**					
Si		7510		500	ug/L	6010B
220-9976-9	**RSH0748-09**					
Si		6600		500	ug/L	6010B
220-9976-10	**RSH0748-10**					
Si		1100		500	ug/L	6010B
220-9976-11	**RSH0748-11**					
Si		2600		500	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-9976-12	**RSH0748-12**				
Si		1110	500	ug/L	6010B
220-9976-13	**RSH0748-13**				
Si		2160	500	ug/L	6010B
220-9976-14	**RSH0748-14**				
Si		2130	500	ug/L	6010B

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

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: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Method	Analyst	Analyst ID
SW846 6010B	Petronchak, Nestor	NP

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-9976-1	RSH0748-01	Water	08/25/2009 0915	08/27/2009 0929
220-9976-2	RSH0748-02	Water	08/25/2009 1020	08/27/2009 0929
220-9976-3	RSH0748-03	Water	08/25/2009 1055	08/27/2009 0929
220-9976-4	RSH0748-04	Water	08/25/2009 1110	08/27/2009 0929
220-9976-5	RSH0748-05	Water	08/25/2009 1125	08/27/2009 0929
220-9976-6	RSH0748-06	Water	08/25/2009 1230	08/27/2009 0929
220-9976-7	RSH0748-07	Water	08/25/2009 1400	08/27/2009 0929
220-9976-8	RSH0748-08	Water	08/25/2009 1435	08/27/2009 0929
220-9976-9	RSH0748-09	Water	08/25/2009 0000	08/27/2009 0929
220-9976-10	RSH0748-10	Water	08/25/2009 1200	08/27/2009 0929
220-9976-11	RSH0748-11	Water	08/25/2009 1210	08/27/2009 0929
220-9976-12	RSH0748-12	Water	08/25/2009 1220	08/27/2009 0929
220-9976-13	RSH0748-13	Water	08/25/2009 1500	08/27/2009 0929
220-9976-14	RSH0748-14	Water	08/25/2009 1510	08/27/2009 0929

SAMPLE RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-01**

Lab Sample ID: 220-9976-1
Client Matrix: Water

Date Sampled: 08/25/2009 0915
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31021		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-30912		Lab File ID:	W090909
Dilution:	5.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/09/2009 1636			Final Weight/Volume:	50 mL
Date Prepared:	09/08/2009 1030				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6990		250	2500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-02**

Lab Sample ID: 220-9976-2
Client Matrix: Water

Date Sampled: 08/25/2009 1020
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31021		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-30912		Lab File ID:	W090909
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/09/2009 1856			Final Weight/Volume:	50 mL
Date Prepared:	09/08/2009 1030				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	395	J	50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-03**

Lab Sample ID: 220-9976-3
Client Matrix: Water

Date Sampled: 08/25/2009 1055
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31021		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-30958		Lab File ID:	W090909
Dilution:	5.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/09/2009 1837			Final Weight/Volume:	50 mL
Date Prepared:	09/09/2009 0949				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6510		250	2500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-04**

Lab Sample ID: 220-9976-4
Client Matrix: Water

Date Sampled: 08/25/2009 1110
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31021		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-30958		Lab File ID:	W090909
Dilution:	5.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/09/2009 1843			Final Weight/Volume:	50 mL
Date Prepared:	09/09/2009 0949				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	11400		250	2500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-05**

Lab Sample ID: 220-9976-5
Client Matrix: Water

Date Sampled: 08/25/2009 1125
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31021		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-30958		Lab File ID:	W090909
Dilution:	5.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/09/2009 1849			Final Weight/Volume:	50 mL
Date Prepared:	09/09/2009 0949				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	10100		250	2500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-06**

Lab Sample ID: 220-9976-6
Client Matrix: Water

Date Sampled: 08/25/2009 1230
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1448			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	5860		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-07**

Lab Sample ID: 220-9976-7
Client Matrix: Water

Date Sampled: 08/25/2009 1400
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1503			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	4710		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-08**

Lab Sample ID: 220-9976-8
Client Matrix: Water

Date Sampled: 08/25/2009 1435
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1508			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	7510		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-09**

Lab Sample ID: 220-9976-9
Client Matrix: Water

Date Sampled: 08/25/2009 0000
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1514			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	6600		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-10**

Lab Sample ID: 220-9976-10
Client Matrix: Water

Date Sampled: 08/25/2009 1200
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1520			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	1100		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-11**

Lab Sample ID: 220-9976-11
Client Matrix: Water

Date Sampled: 08/25/2009 1210
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1526			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	2600		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-12**

Lab Sample ID: 220-9976-12
Client Matrix: Water

Date Sampled: 08/25/2009 1220
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1543			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	1110		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-13**

Lab Sample ID: 220-9976-13
Client Matrix: Water

Date Sampled: 08/25/2009 1500
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1549			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	2160		50.0	500

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Client Sample ID: **RSH0748-14**

Lab Sample ID: 220-9976-14
Client Matrix: Water

Date Sampled: 08/25/2009 1510
Date Received: 08/27/2009 0929

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 220-31107		Instrument ID:	ICAP2
Preparation:	3010A	Prep Batch: 220-31040		Lab File ID:	W091109
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	09/11/2009 1554			Final Weight/Volume:	50 mL
Date Prepared:	09/10/2009 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Si	2130		50.0	500

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-30861					
220-9972-A-8-F DU	Duplicate	E	Water		
220-9972-A-8-G MS	Matrix Spike	E	Water		
Prep Batch: 220-30912					
LCS 220-30912/2-A	Lab Control Sample	T	Water	3010A	
MB 220-30912/1-A	Method Blank	T	Water	3010A	
220-9969-D-5-B DU	Duplicate	T	Water	3010A	
220-9969-D-5-C MS	Matrix Spike	T	Water	3010A	
220-9969-D-5-D MSD	Matrix Spike Duplicate	T	Water	3010A	
220-9976-1	RSH0748-01	T	Water	3010A	
220-9976-2	RSH0748-02	T	Water	3010A	
Prep Batch: 220-30958					
LCS 220-30958/2-A	Lab Control Sample	T	Water	3010A	
MB 220-30958/1-A	Method Blank	T	Water	3010A	
220-9972-A-8-F DU	Duplicate	E	Water	3010A	220-30861
220-9972-A-8-G MS	Matrix Spike	E	Water	3010A	220-30861
220-9976-3	RSH0748-03	T	Water	3010A	
220-9976-4	RSH0748-04	T	Water	3010A	
220-9976-5	RSH0748-05	T	Water	3010A	
Analysis Batch:220-31021					
LCS 220-30912/2-A	Lab Control Sample	T	Water	6010B	220-30912
MB 220-30912/1-A	Method Blank	T	Water	6010B	220-30912
LCS 220-30958/2-A	Lab Control Sample	T	Water	6010B	220-30958
MB 220-30958/1-A	Method Blank	T	Water	6010B	220-30958
220-9969-D-5-B DU	Duplicate	T	Water	6010B	220-30912
220-9969-D-5-C MS	Matrix Spike	T	Water	6010B	220-30912
220-9969-D-5-D MSD	Matrix Spike Duplicate	T	Water	6010B	220-30912
220-9972-A-8-F DU	Duplicate	E	Water	6010B	220-30958
220-9972-A-8-G MS	Matrix Spike	E	Water	6010B	220-30958
220-9976-1	RSH0748-01	T	Water	6010B	220-30912
220-9976-2	RSH0748-02	T	Water	6010B	220-30912
220-9976-3	RSH0748-03	T	Water	6010B	220-30958
220-9976-4	RSH0748-04	T	Water	6010B	220-30958
220-9976-5	RSH0748-05	T	Water	6010B	220-30958

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 220-31040					
LCS 220-31040/2-A	Lab Control Sample	T	Water	3010A	
MB 220-31040/1-A	Method Blank	T	Water	3010A	
220-9976-6	RSH0748-06	T	Water	3010A	
220-9976-7	RSH0748-07	T	Water	3010A	
220-9976-8	RSH0748-08	T	Water	3010A	
220-9976-9	RSH0748-09	T	Water	3010A	
220-9976-10	RSH0748-10	T	Water	3010A	
220-9976-11	RSH0748-11	T	Water	3010A	
220-9976-12	RSH0748-12	T	Water	3010A	
220-9976-13	RSH0748-13	T	Water	3010A	
220-9976-14	RSH0748-14	T	Water	3010A	
220-9983-D-1-D DU	Duplicate	T	Water	3010A	
220-9983-D-1-E MS	Matrix Spike	T	Water	3010A	
Analysis Batch:220-31107					
LCS 220-31040/2-A	Lab Control Sample	T	Water	6010B	220-31040
MB 220-31040/1-A	Method Blank	T	Water	6010B	220-31040
220-9976-6	RSH0748-06	T	Water	6010B	220-31040
220-9976-7	RSH0748-07	T	Water	6010B	220-31040
220-9976-8	RSH0748-08	T	Water	6010B	220-31040
220-9976-9	RSH0748-09	T	Water	6010B	220-31040
220-9976-10	RSH0748-10	T	Water	6010B	220-31040
220-9976-11	RSH0748-11	T	Water	6010B	220-31040
220-9976-12	RSH0748-12	T	Water	6010B	220-31040
220-9976-13	RSH0748-13	T	Water	6010B	220-31040
220-9976-14	RSH0748-14	T	Water	6010B	220-31040
220-9983-D-1-D DU	Duplicate	T	Water	6010B	220-31040
220-9983-D-1-E MS	Matrix Spike	T	Water	6010B	220-31040

Report Basis
E = SPLP East
T = Total

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Method Blank - Batch: 220-30912

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-30912/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2009 1407
Date Prepared: 09/08/2009 1030

Analysis Batch: 220-31021
Prep Batch: 220-30912
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W090909
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Si	109	J	50.0	500

Duplicate - Batch: 220-30912

Method: 6010B
Preparation: 3010A

Lab Sample ID: 220-9969-D-5-B DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2009 1518
Date Prepared: 09/08/2009 1030

Analysis Batch: 220-31021
Prep Batch: 220-30912
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W090909
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Si	6330	6290	1	20	

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

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Method Blank - Batch: 220-30958

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-30958/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2009 1716
Date Prepared: 09/09/2009 0949

Analysis Batch: 220-31021
Prep Batch: 220-30958
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W090909
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Si	99.6	J	50.0	500

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual

Duplicate - Batch: 220-30958

Method: 6010B
Preparation: 3010A
SPLP East

Lab Sample ID: 220-9972-A-8-F DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2009 1757
Date Prepared: 09/09/2009 0949
Date Leached: 09/03/2009 1620

Analysis Batch: 220-31021
Prep Batch: 220-30958
Units: ug/L

Leachate Batch: 220-30861

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W090909
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Si	1520	1440	5	20	

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

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
Sdg Number: Niagara Falls - RSH0748

Method Blank - Batch: 220-31040

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-31040/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/11/2009 1408
Date Prepared: 09/10/2009 1130

Analysis Batch: 220-31107
Prep Batch: 220-31040
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W091109
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Si	75.3	J	50.0	500

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual

Duplicate - Batch: 220-31040

Method: 6010B
Preparation: 3010A

Lab Sample ID: 220-9983-D-1-D DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/11/2009 1437
Date Prepared: 09/10/2009 1130

Analysis Batch: 220-31107
Prep Batch: 220-31040
Units: ug/L

Instrument ID: TJA Trace ICAP 61E2
Lab File ID: W091109
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Si	6650	6570	1	20	

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

SUBCONTRACT ORDER

TestAmerica Buffalo

RSH0748

9976

SENDING LABORATORY:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716-691-2600
Fax: 716-691-7991
Project Manager: Jason Kacalski
Client: Greenstar Environmental Solutions, LLC

RECEIVING LABORATORY:

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone :(203) 944-1307
Fax: -
Project Location: _UNKNOWN
Receipt Temperature:_____°C Ice: Y / N

Report: Level 2 Report

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RSH0748-01 (1) **Water** Sampled: **08/25/09 09:15**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 09:15	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-02 (2) **Water** Sampled: **08/25/09 10:20**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 10:20	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-03 (3) **Water** Sampled: **08/25/09 10:55**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 10:55	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-04 (4) **Water** Sampled: **08/25/09 11:10**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 11:10	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-05 (5) **Water** Sampled: **08/25/09 11:25**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 11:25	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-06 (6) **Water** Sampled: **08/25/09 12:30**						
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 12:30	$30.00	0%	NONE,
Containers Supplied:						

22.38°C
gun #1
passed rad screen

Released By	Date/Time	Received By	Date/Time
	8/26/09 1700	KBlock	8/27/09 929

SUBCONTRACT ORDER

TestAmerica Buffalo

RSH0748

9976

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RSH0748-07 (7) **Water**			Sampled: **08/25/09 14:00**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 14:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-08 (8) **Water**			Sampled: **08/25/09 14:35**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 14:35	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-09 (9) **Water**			Sampled: **08/25/09 00:00**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 00:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-10 (10) **Water**			Sampled: **08/25/09 12:00**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 12:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-11 (11) **Water**			Sampled: **08/25/09 12:10**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 12:10	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-12 (12) **Water**			Sampled: **08/25/09 12:20**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 12:20	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-13 (13) **Water**			Sampled: **08/25/09 15:00**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 15:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RSH0748-14 (14) **Water**			Sampled: **08/25/09 15:10**			
SUB - 6010B Tot - Silicon	mg/L	09/16/09	02/21/10 15:10	$30.00	0%	NONE,
Containers Supplied:						

ESTAMERICA CONNECTICUT
RESERVATIVE RECORD

Job Number:

Client:

Client Project:

Lab Number	Preservative	pH	Adjustment (mLs)	pH after Adjustment	Preservative Lot Number	Initials	Date
9976- 01	HNO3	<2	N/A	N/A	N/A	KB	8/27/09
02		<2					
03		<2					
04		<2					
05		<2					
06		<2					
07		<2					
08		<2					
09		<2					
10		<2					
11		<2					
12		<2					
13		<2					
14		<2					

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09/14/2009

8/27/09

TestAmerica Form# SMF00207.CT

TestAmerica - Connecticut
Internal Chain-of-Custody

220-9976
Buffalo-workshare

Trip Blank:

QC: Air:

FB:

Soil: Water: 1-14

Date Received: 8/27/09

Sample #s: 1-14

Locations: 91E

Laboratory Sample #	Signature-Sample Removal	Date	Time	Reason	Signature-Sample Return	Date	Time
1, 2	JV	9/8/09	1616	MTR	JV	9/8/09	1040
3-5	JV	9/9/09	0855	MTR	JV	9/9/09	1040
6-14	JV	9/10/09	1120	MTR	JV	9/10/09	1245

9/14/09

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc.

Job Number: 220-9976-1
SDG Number: Niagara Falls - RSH0748

Login Number: 9976
List Source: TestAmerica Connecticut
Creator: Blocker, Kristina
List Number: 1

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.	False	Samples do not require ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.38C
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.	N/A	
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	
Is the Field Sampler's name present on COC?	False	Workshare
Sample Preservation Verified	True	

Attachment E

Landfill Cap Inspection Checklists
August and November 2009

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

Personnel:	Bruce Vinal
Date:	3rd Quarter Inspection (Aug 25, 2009)
Weather:	Sunny, 80 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:** Ponding water at first gate off of Witmer rd. and in road adjacent to GCTS. Walked this areas with Bob Broomfield of Ridgeway Env. Bid is being prepared for addressing this issue

3. **Identification of stressed vegetation:**
   Vegetation in the disturbed areas of the southwest corner are not doing well. This area should have topsoil added and be re-seeded. Walked this areas with Bob Broomfield of Ridgeway Env. Bid is being prepared for addressing this issue

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
   Weeds have begun to grow up around the GCTS tanks. Vegetation growing up around the solar panel and internet panel has been cut down with a weed whacker. Placement of geo-textile and stone over this area are also in the bid by Ridgeway Env.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
   Wells need to be painted with safety blue paint. The concrete pad under the backup generator has begun to settle. Ridgeways bid will include sanding, priming, and 2 coats of safety blue paint on the wells as well as removing generator, leveling pad, and reinstallation

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
   Iron sediment has begun to accumulate in the swale conveying the GCTS discharge. Ridgeways bid will include removal, disposal, and replacement of impacted stone. Iron sediment in the T-7 "Cat tail pond" will be removed and disposed of by Ridgeway, this should alleviate the accumulation of iron in the swale
   The newly configured GCTS swale in the southwest corner has an area about 50' long that has begun to slough. This is directly related to the lack of vegetation in this area. Ridgeways will correct this issue in conjunction with the cap mowing in Oct.

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 in good shape. Vegetation is taking over the roads, but no need to use herbicides. Roads are still usable. Roads will be mowed and scarified in October.

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

Personnel:	Bruce Vinal
Date:	4th Quarter Inspection (Nov 7th 2009)
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:** None noted.

3. **Identification of stressed vegetation:**
   The disturbed areas of the southwest corner have been grubbed, re-loamed, and hydro seeded. This area will be monitored throughout the growing season.

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
   The cap was mowed during the first week of October. Weeds around the GCTS tanks have been removed. Growth around the solar panel/internet transmitter has been removed, a geo-textile has been spread over the area and covered with a layer of stone in an effort to reduce maintenance in this area. The T-7 iron settling pond has been cleaned, decaying organic matter and iron sediment have been removed.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
   Wells have been painted with safety blue paint. The concrete pad under the backup generator has been leveled.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
   Trap rock in swale conveying the GCTS discharge has been removed and replaced in areas of heavy iron deposits. Sloughing in the swale at the southwest corner has been repaired, impacted stone was removed and replaced. The replacement stone was placed thicker in the swale in an effort to eliminate future sloughing.

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:**
   Crushed gravel was added to several areas of the access roads. The area of ponding at the main gate was filled/re-graded as was the area adjacent to the treatment system. All roads were scarified to eliminate growth.

Attachment F

Laboratory Analytical Results for GCTS Discharge Sampling August and November 2009

Analytical Report

Work Order: RSH0236

Project Description

Airco - Niagara Falls

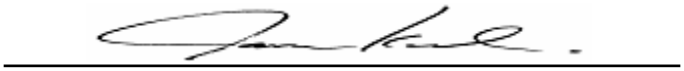
For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC

6 Gellatly Drive

Wappinger Falls, NY 12590



Jason Kacalski

Project Manager

jason.kacalski@testamericainc.com

Wednesday, August 19, 2009

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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 accre ditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

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Reported: 08/19/09 09:16

Case Narrative

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. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
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Work Order: RSH0236

Project: Airco - Niagara Falls
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Reported: 08/19/09 09:16

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
CF6	Results confirmed by reanalysis.
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0236-01 (AP-EWE-01 - Water)						**Sampled: 08/10/09 15:00**		**Recvd: 08/10/09 15:45**		
General Chemistry Parameters										
pH	**8.00**	HFT	0.100	NR	SU	1.00	08/10/09 19:36	JME	9H10082	9040
Oxygen, Dissolved	**9.84**	HFT	7.00	NR	mg/L	1.00	08/11/09 17:44	MDM	9H11074	4500-O G
Nitrate	**0.504**		0.050	NR	mg/L as N	1.00	08/11/09 11:05	JMM	9H11043	353.2
Total Dissolved Solids	**248**	CF6	4.0	NR	mg/L	1.00	08/11/09 16:05	AMP	9H11008	2540C
Total Kjeldahl Nitrogen	**2.82**		1.00	NR	mg/L as N	1.00	08/12/09 11:48	ZZZ	9H11009	351.2

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Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-EWE-01	RSH0236-01	Water	08/10/09 15:00	08/10/09 15:45	
TRIP BLANK	RSH0236-02	Water	08/10/09	08/10/09 15:45	

Greenstar Environmental Solutions, LLC
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Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0236-01 (AP-EWE-01 - Water)						**Sampled: 08/10/09 15:00**		**Recvd: 08/10/09 15:45**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	08/10/09 22:14	MF	9H10078	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	08/10/09 22:14	MF	9H10078	624
1,2-Dichloroethane-d4	*98 %*		*Surr Limits: (88-132%)*				*08/10/09 22:14*	*MF*	*9H10078*	*624*
4-Bromofluorobenzene	*96 %*		*Surr Limits: (78-122%)*				*08/10/09 22:14*	*MF*	*9H10078*	*624*
Toluene-d8	*102 %*		*Surr Limits: (87-110%)*				*08/10/09 22:14*	*MF*	*9H10078*	*624*
Total Metals by EPA 200 Series Methods										
Barium	ND		2000	NR	ug/L	1.00	08/16/09 03:53	AMH	9H11031	200.7
Chromium	ND		100	NR	ug/L	1.00	08/16/09 03:53	AMH	9H11031	200.7
Copper	ND		14.7	NR	ug/L	1.00	08/13/09 19:12	LMH	9H11031	200.7
Iron	ND		300	NR	ug/L	1.00	08/16/09 03:53	AMH	9H11031	200.7
Nickel	ND		70.0	NR	ug/L	1.00	08/16/09 03:53	AMH	9H11031	200.7
Zinc	ND		115	NR	ug/L	1.00	08/16/09 03:53	AMH	9H11031	200.7
Selenium	ND		4.6	NR	ug/L	1.00	08/12/09 21:00	AMH	9H11034	200.8
Thallium	ND		4.0	NR	ug/L	1.00	08/12/09 21:00	AMH	9H11034	200.8
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/11/09 11:18	RMM	9H11015	350.1
Biochemical Oxygen Demand	ND		5.0	NR	mg/L	1.00	08/11/09 18:15	JFR	9H12002	5210B
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/10/09 19:20	JME	9H10083	7196A
Chemical Oxygen Demand	ND		40.0	NR	mg/L	1.00	08/11/09 16:40	MDM	9H11060	410.4
pH	**8.00**	HFT	0.100	NR	SU	1.00	08/10/09 19:36	JME	9H10082	9040
Oxygen, Dissolved	**9.84**	HFT	7.00	NR	mg/L	1.00	08/11/09 17:44	MDM	9H11074	4500-O G
Nitrate	**0.504**		0.050	NR	mg/L as N	1.00	08/11/09 11:05	JMM	9H11043	353.2
Nitrite	ND		0.05	NR	mg/L as N	1.00	08/11/09 11:00	jmm	9H11044	353.2
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	08/12/09 11:16	KLD	9H11028	420.4
Total Dissolved Solids	**248**	CF6	4.0	NR	mg/L	1.00	08/11/09 16:05	AMP	9H11008	2540C
Total Suspended Solids	ND		10.0	NR	mg/L	1.00	08/11/09 14:55	AMP	9H11010	2540D
Total Kjeldahl Nitrogen	**2.82**		1.00	NR	mg/L as N	1.00	08/12/09 11:48	ZZZ	9H11009	351.2

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSH0236-02 (TRIP BLANK - Water)						**Sampled: 08/10/09**		**Recvd:**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	08/10/09 22:39	MF	9H10078	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	08/10/09 22:39	MF	9H10078	624
1,2-Dichloroethane-d4	*100 %*		*Surr Limits: (88-132%)*				*08/10/09 22:39*	*MF*	*9H10078*	*624*
4-Bromofluorobenzene	*93 %*		*Surr Limits: (78-122%)*				*08/10/09 22:39*	*MF*	*9H10078*	*624*
Toluene-d8	*100 %*		*Surr Limits: (87-110%)*				*08/10/09 22:39*	*MF*	*9H10078*	*624*

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Project: Airco - Niagara Falls
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Reported: 08/19/09 09:16

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
2540C	9H11008	RSH0236-01	100.00	mL	100.00	mL	08/11/09 16:05	AMP	No prep solids
2540D	9H11010	RSH0236-01	250.00	mL	250.00	mL	08/11/09 14:55	AMP	No prep solids
350.1	9H11015	RSH0236-01	5.00	mL	5.00	mL	08/11/09 09:35	RMM	No prep Ammonia
351.2	9H11009	RSH0236-01	25.00	mL	25.00	mL	08/11/09 08:30	JMM	TKN Digestion
353.2	9H11043	RSH0236-01	5.00	mL	5.00	mL	08/11/09 11:00	JMM	No prep Nitrate
353.2	9H11044	RSH0236-01	5.00	mL	5.00	mL	08/11/09 11:00	JMM	No prep Nitrite
410.4	9H11060	RSH0236-01	2.00	mL	2.00	mL	08/11/09 16:40	MDM	Chemical Oxygen Demand
420.4	9H11028	RSH0236-01	50.00	mL	50.00	mL	08/11/09 12:05	RJP	TRP Distillation
4500-O G	9H11074	RSH0236-01	1.00	mL	1.00	mL	08/11/09 17:44	MDM	Direct
5210B	9H12002	RSH0236-01	300.00	mL	300.00	mL	08/11/09 18:15	MDM	Biochemical Oxygen Demand
7196A	9H10083	RSH0236-01	25.00	mL	25.00	mL	08/10/09 19:20	JME	Hex Digestion
9040	9H10082	RSH0236-01	50.00	mL	50.00	mL	08/10/09 19:36	JME	No prep pH
Total Metals by EPA 200 Series Methods									
200.7	9H11031	RSH0236-01	50.00	mL	50.00	mL	08/12/09 08:45	MLD	3005A
200.8	9H11034	RSH0236-01	50.00	mL	50.00	mL	08/12/09 08:20	KCW	3020A
Volatile Organic Compounds									
624	9H10078	RSH0236-01	5.00	mL	5.00	mL	08/10/09 18:38	MAF	5030B MS
624	9H10078	RSH0236-02	5.00	mL	5.00	mL	08/10/09 18:38	MAF	5030B MS

Greenstar Environmental Solutions, LLC
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Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

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Reported: 08/19/09 09:16

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds											
Blank Analyzed: 08/10/09 (Lab Number:9H10078-BLK1, Batch: 9H10078)											
1,1-Dichloroethane			5.0	0.59	ug/L	ND					
Trichloroethene			5.0	0.60	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*100*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*95*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*103*	*87-110*			
LCS Analyzed: 08/10/09 (Lab Number:9H10078-BS1, Batch: 9H10078)											
1,1-Dichloroethane		20	5.0	0.59	ug/L	20.1	101	73-128			
Trichloroethene		20	5.0	0.60	ug/L	19.6	98	67-134			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*102*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*100*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*103*	*87-110*			

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Project: Airco - Niagara Falls
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Reported: 08/19/09 09:16

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 08/16/09 (Lab Number:9H11031-BLK1, Batch: 9H11031)											
Barium			2.00	NR	ug/L	ND					
Chromium			4.00	NR	ug/L	ND					
Copper			10.0	NR	ug/L	ND					B
Iron			50.0	NR	ug/L	ND					B
Nickel			10.0	NR	ug/L	ND					
Zinc			10.0	NR	ug/L	ND					B
Blank Analyzed: 08/16/09 (Lab Number:9H11031-BLK2, Batch: 9H11031)											
Chromium			4.00	NR	ug/L	ND					
Nickel			10.0	NR	ug/L	ND					
LCS Analyzed: 08/16/09 (Lab Number:9H11031-BS1, Batch: 9H11031)											
Barium		200	2.00	NR	ug/L	198	99	85-115			
Chromium		200	4.00	NR	ug/L	199	100	85-115			
Copper		200	10.0	NR	ug/L	193	97	85-115			
Iron		10000	50.0	NR	ug/L	9850	98	85-115			
Nickel		200	10.0	NR	ug/L	195	97	85-115			
Zinc		200	10.0	NR	ug/L	200	100	85-115			
LCS Analyzed: 08/16/09 (Lab Number:9H11031-BS2, Batch: 9H11031)											
Chromium		200	4.00	NR	ug/L	199	100	85-115			
Nickel		200	10.0	NR	ug/L	195	97	85-115			
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 08/12/09 (Lab Number:9H11034-BLK1, Batch: 9H11034)											
Selenium			1.0	NR	ug/L	ND					
Thallium			0.2	NR	ug/L	ND					
LCS Analyzed: 08/12/09 (Lab Number:9H11034-BS1, Batch: 9H11034)											
Selenium		20.0	1.0	NR	ug/L	20.5	103	85-115			
Thallium		20.0	0.2	NR	ug/L	21.2	106	85-115			

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Work Order: RSH0236

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Reported: 08/19/09 09:16

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 08/10/09 (Lab Number:9H10082-BS1, Batch: 9H10082)											
pH		7.00	NA	NR	SU	7.00	100	99.3-100.8			
Duplicate Analyzed: 08/10/09 (Lab Number:9H10082-DUP1, Batch: 9H10082)											
QC Source Sample: RSH0236-01											
pH	8.00		NA	NR	SU	7.99			0.1		
General Chemistry Parameters											
Blank Analyzed: 08/10/09 (Lab Number:9H10083-BLK1, Batch: 9H10083)											
Chromium, Hexavalent			10.0	NR	ug/L	ND					
LCS Analyzed: 08/10/09 (Lab Number:9H10083-BS1, Batch: 9H10083)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	53.7	107	85-115			
Duplicate Analyzed: 08/10/09 (Lab Number:9H10083-DUP1, Batch: 9H10083)											
QC Source Sample: RSH0236-01											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				20	
Matrix Spike Analyzed: 08/10/09 (Lab Number:9H10083-MS1, Batch: 9H10083)											
QC Source Sample: RSH0236-01											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	57.1	114	75-120			
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11008-BLK1, Batch: 9H11008)											
Total Dissolved Solids			4.0	NR	mg/L	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11008-BS1, Batch: 9H11008)											
Total Dissolved Solids		500	4.0	NR	mg/L	516	103	85-115			
Duplicate Analyzed: 08/11/09 (Lab Number:9H11008-DUP1, Batch: 9H11008)											
QC Source Sample: RSH0236-01											
Total Dissolved Solids	248		4.0	NR	mg/L	241			3	20	
General Chemistry Parameters											
Blank Analyzed: 08/12/09 (Lab Number:9H11009-BLK1, Batch: 9H11009)											
Total Kjeldahl Nitrogen			0.20	NR	mg/L as N	ND					
LCS Analyzed: 08/12/09 (Lab Number:9H11009-BS1, Batch: 9H11009)											
Total Kjeldahl Nitrogen		2.50	0.20	NR	mg/L as N	2.49	100	90-110			
General Chemistry Parameters											

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11010-BLK1, Batch: 9H11010)											
Total Suspended Solids			4.0	NR	mg/L	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11010-BS1, Batch: 9H11010)											
Total Suspended Solids		611	4.0	NR	mg/L	574	94	88-110			
Duplicate Analyzed: 08/11/09 (Lab Number:9H11010-DUP1, Batch: 9H11010)											
QC Source Sample: RSH0236-01											
Total Suspended Solids	ND		4.0	NR	mg/L	ND				15	
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11015-BLK1, Batch: 9H11015)											
Ammonia as N			0.020	NR	mg/L as N	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11015-BS1, Batch: 9H11015)											
Ammonia as N		0.750	0.020	NR	mg/L as N	0.777	104	90-110			
Duplicate Analyzed: 08/11/09 (Lab Number:9H11015-DUP1, Batch: 9H11015)											
QC Source Sample: RSH0236-01											
Ammonia as N	ND		0.020	NR	mg/L as N	ND				20	
Matrix Spike Analyzed: 08/11/09 (Lab Number:9H11015-MS1, Batch: 9H11015)											
QC Source Sample: RSH0236-01											
Ammonia as N	ND	0.200	0.020	NR	mg/L as N	0.217	108	54-150			
General Chemistry Parameters											
Blank Analyzed: 08/12/09 (Lab Number:9H11028-BLK1, Batch: 9H11028)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					
LCS Analyzed: 08/12/09 (Lab Number:9H11028-BS1, Batch: 9H11028)											
Phenolics, Total Recoverable		517	50.0	NR	ug/L	511	99	75-125			D08
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11043-BLK1, Batch: 9H11043)											
Nitrate			0.050	NR	mg/L as N	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11043-BS1, Batch: 9H11043)											
Nitrate		1.50	0.050	NR	mg/L as N	1.45	97	90-110			
Duplicate Analyzed: 08/11/09 (Lab Number:9H11043-DUP1, Batch: 9H11043)											
QC Source Sample: RSH0236-01											

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSH0236

Project: Airco - Niagara Falls
Project Number: NY5A9582

Received: 08/10/09
Reported: 08/19/09 09:16

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Duplicate Analyzed: 08/11/09 (Lab Number:9H11043-DUP1, Batch: 9H11043)											
QC Source Sample: RSH0236-01											
Nitrate	0.504		0.050	NR	mg/L as N	0.504			0.1	20	
Matrix Spike Analyzed: 08/11/09 (Lab Number:9H11043-MS1, Batch: 9H11043)											
QC Source Sample: RSH0236-01											
Nitrate	0.504	1.00	0.050	NR	mg/L as N	1.40	90	77-123			
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11044-BLK1, Batch: 9H11044)											
Nitrite			0.05	NR	mg/L as N	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11044-BS1, Batch: 9H11044)											
Nitrite		1.50	0.05	NR	mg/L as N	1.57	105	90-110			
Matrix Spike Analyzed: 08/11/09 (Lab Number:9H11044-MS1, Batch: 9H11044)											
QC Source Sample: RSH0236-01											
Nitrite	ND	1.00	0.05	NR	mg/L as N	1.20	120	61-147			
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H11060-BLK1, Batch: 9H11060)											
Chemical Oxygen Demand			10.0	NR	mg/L	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H11060-BS1, Batch: 9H11060)											
Chemical Oxygen Demand		25.0	10.0	NR	mg/L	26.7	107	90-110			
General Chemistry Parameters											
Duplicate Analyzed: 08/11/09 (Lab Number:9H11074-DUP1, Batch: 9H11074)											
QC Source Sample: RSH0236-01											
Oxygen, Dissolved	9.84		0.05	NR	mg/L	9.72			1		HFT
General Chemistry Parameters											
Blank Analyzed: 08/11/09 (Lab Number:9H12002-BLK1, Batch: 9H12002)											
Biochemical Oxygen Demand			2.0	NR	mg/L	ND					
LCS Analyzed: 08/11/09 (Lab Number:9H12002-BS1, Batch: 9H12002)											
Biochemical Oxygen Demand		198	2.0	NR	mg/L	204	103	85-115			

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Greenstar Environmental	Project Manager: JRK	Date: 8-10-09	Chain of Custody Number: 110805
Address: 6 Gellatly Dr.	Telephone Number (Area Code)/Fax Number: (845) 223-9944	Lab Number:	Page 1 of 1
City: Wappiges. Falls; State: NY; Zip Code:	Site Contact: Chip McLeod; Lab Contact:		
Project Name and Location (State): Airco Parcel	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: Quarterly Discharge monitoring			

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	PP VOAS	TKN	AMMONIA	COD	Nitrate/nitrite	BOD	TDS/TSS	D.O./PH-I	CR+6 WO	T PHENOLS	Special Instructions/Conditions of Receipt
AP-EWE-01	8-10-09	15:00		X				4	2	1	2															

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)

1. Relinquished By: [signature]	Date: 8-10-09	Time: 15:45	1. Received By: [signature] BUFFALO	Date: 08/10/09	Time: 1545
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 8.0°C, w/ICE SAME DAY

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

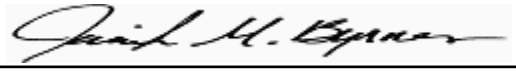
Work Order: RSK0770

Project Description
Quarterly Discharge Monitoring

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590



Jennifer Byrnes For Jason Kacalski

Project Manager

jennifer.byrnes@testamericainc.com

Friday, December 11, 2009

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

CASE NARRATIVE

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. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 21 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

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The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (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.

SpecificMethod	Analyte	Units	Client RL	Lab PQL
2540C	Total Dissolved Solids	mg/L	4.0	10.0
420.4	Phenolics, Total Recoverable	ug/L	8.0	10.0

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
CF6	Results confirmed by reanalysis.
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Sample result is greater than the MDL but below the CRDL
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSK0770-01 (AP-EWE-01 - Water)						**Sampled: 11/16/09 16:00**		**Recvd: 11/16/09 18:00**		
Total Metals by EPA 200 Series Methods										
Selenium	**5.1**		4.6	NR	ug/L	1.00	11/18/09 12:51	AMH	9K18013	200.8
General Chemistry Parameters										
pH	**7.55**	HFT	0.100	NR	SU	1.00	11/16/09 22:55	JME	9K16123	9040
Oxygen, Dissolved	**8.61**	HFT	7.00	NR	mg/L	1.00	11/16/09 22:21	JME	9K16121	4500-O G
Nitrate	**3.22**	D08, CF6	0.100	NR	mg/L as N	2.00	11/17/09 16:38	JME	9K17118	353.2
Nitrite	**0.220**		0.050	NR	mg/L as N	1.00	11/17/09 21:16	JME	9K18004	353.2
Phenolics, Total Recoverable	**8.2**	B	8.0	NR	ug/L	1.00	11/19/09 11:27	JMM	9K17110	420.4
Total Dissolved Solids	**734**		4.0	NR	mg/L	1.00	11/18/09 15:15	AMP	9K18015	2540C
Nitrogen, Total Kjeldahl										
Nitrogen, Total Kjeldahl	**0.25**	J	0.50	0.050	mg/L	1.00	12/10/09 14:42	RN	34150	351.2

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-EWE-01	RSK0770-01	Water	11/16/09 16:00	11/16/09 18:00	
TRIP BLANK	RSK0770-02	Water	11/16/09	11/16/09 18:00	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSK0770-01 (AP-EWE-01 - Water)						**Sampled: 11/16/09 16:00**		**Recvd: 11/16/09 18:00**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	11/18/09 07:08	TRB	9K17020	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	11/18/09 07:08	TRB	9K17020	624
1,2-Dichloroethane-d4	*107 %*		*Surr Limits: (88-132%)*				*11/18/09 07:08*	*TRB*	*9K17020*	*624*
4-Bromofluorobenzene	*96 %*		*Surr Limits: (78-122%)*				*11/18/09 07:08*	*TRB*	*9K17020*	*624*
Toluene-d8	*99 %*		*Surr Limits: (87-110%)*				*11/18/09 07:08*	*TRB*	*9K17020*	*624*
Total Metals by EPA 200 Series Methods										
Barium	ND		2000	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Chromium	ND		100	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Copper	ND		14.7	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Iron	ND		300	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Nickel	ND		70.0	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Zinc	ND		115	NR	ug/L	1.00	11/18/09 21:47	DAN	9K17070	200.7
Selenium	**5.1**		4.6	NR	ug/L	1.00	11/18/09 12:51	AMH	9K18013	200.8
Thallium	ND		4.0	NR	ug/L	1.00	11/18/09 12:51	AMH	9K18013	200.8
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	11/19/09 12:12	RMM	9K19032	350.1
Biochemical Oxygen Demand	ND		5.0	NR	mg/L	1.00	11/17/09 15:58	JFR	9K17117	5210B
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	11/16/09 22:50	JME	9K16122	7196A
Chemical Oxygen Demand	ND		40.0	NR	mg/L	1.00	11/18/09 13:45	AMP	9K18061	410.4
pH	**7.55**	HFT	0.100	NR	SU	1.00	11/16/09 22:55	JME	9K16123	9040
Oxygen, Dissolved	**8.61**	HFT	7.00	NR	mg/L	1.00	11/16/09 22:21	JME	9K16121	4500-O G
Nitrate	**3.22**	D08, CF6	0.100	NR	mg/L as N	2.00	11/17/09 16:38	JME	9K17118	353.2
Nitrite	**0.220**		0.050	NR	mg/L as N	1.00	11/17/09 21:16	JME	9K18004	353.2
Phenolics, Total Recoverable	**8.2**	B	8.0	NR	ug/L	1.00	11/19/09 11:27	JMM	9K17110	420.4
Total Dissolved Solids	**734**		4.0	NR	mg/L	1.00	11/18/09 15:15	AMP	9K18015	2540C
Total Suspended Solids	ND		10.0	NR	mg/L	1.00	11/18/09 10:20	JMM	9K18014	2540D
Nitrogen, Total Kjeldahl										
Nitrogen, Total Kjeldahl	**0.25**	J	0.50	0.050	mg/L	1.00	12/10/09 14:42	RN	34150	351.2

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSK0770-02 (TRIP BLANK - Water)						**Sampled: 11/16/09**		**Recvd: 11/16/09 18:00**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	11/18/09 07:35	TRB	9K17020	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	11/18/09 07:35	TRB	9K17020	624
1,2-Dichloroethane-d4	*106 %*		*Surr Limits: (88-132%)*				*11/18/09 07:35*	*TRB*	*9K17020*	*624*
4-Bromofluorobenzene	*97 %*		*Surr Limits: (78-122%)*				*11/18/09 07:35*	*TRB*	*9K17020*	*624*
Toluene-d8	*94 %*		*Surr Limits: (87-110%)*				*11/18/09 07:35*	*TRB*	*9K17020*	*624*

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
2540C	9K18015	RSK0770-01	100.00	mL	100.00	mL	11/18/09 15:15	JMM	No prep solids
2540D	9K18014	RSK0770-01	250.00	mL	250.00	mL	11/18/09 10:20	JMM	No prep solids
350.1	9K19032	RSK0770-01	5.00	mL	5.00	mL	11/19/09 09:26	RMM	Ammonia
353.2	9K17118	RSK0770-01	5.00	mL	5.00	mL	11/17/09 16:30	JME	No prep Nitrate
353.2	9K18004	RSK0770-01	5.00	mL	5.00	mL	11/17/09 21:10	JME	No prep Nitrite
410.4	9K18061	RSK0770-01	2.00	mL	2.00	mL	11/18/09 13:45	AMP	No prep Chemical Oxygen Demand
420.4	9K17110	RSK0770-01	50.00	mL	50.00	mL	11/17/09 21:31	MDM	TRP Distillation
4500-O G	9K16121	RSK0770-01	300.00	mL	300.00	mL	11/16/09 22:21	JME	No prep Biochemical Oxygen Demand
5210B	9K17117	RSK0770-01	300.00	mL	300.00	mL	11/17/09 15:58	MDM	Biochemical Oxygen Demand
7196A	9K16122	RSK0770-01	25.00	mL	25.00	mL	11/16/09 22:50	JME	Hex Digestion
9040	9K16123	RSK0770-01	50.00	mL	50.00	mL	11/16/09 22:55	JME	No prep pH
Total Metals by EPA 200 Series Methods									
200.7	9K17070	RSK0770-01	50.00	mL	50.00	mL	11/18/09 09:00	KCW	3005A
200.8	9K18013	RSK0770-01	50.00	mL	50.00	mL	11/18/09 09:00	KCW	3020A
Volatile Organic Compounds									
624	9K17020	RSK0770-01	5.00	mL	5.00	mL	11/17/09 12:45	TRB	5030B MS
624	9K17020	RSK0770-02	5.00	mL	5.00	mL	11/17/09 12:45	TRB	5030B MS

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds											
Blank Analyzed: 11/17/09 (Lab Number:9K17020-BLK1, Batch: 9K17020)											
1,1-Dichloroethane			5.0	0.59	ug/L	ND					
Trichloroethene			5.0	0.60	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*110*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*101*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*100*	*87-110*			
LCS Analyzed: 11/17/09 (Lab Number:9K17020-BS1, Batch: 9K17020)											
1,1-Dichloroethane		20.0	5.0	0.59	ug/L	20.5	102	73-128			
Trichloroethene		20.0	5.0	0.60	ug/L	20.0	100	67-134			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*104*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*100*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*100*	*87-110*			

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 11/18/09 (Lab Number:9K17070-BLK1, Batch: 9K17070)											
Barium			2000	NR	ug/L	ND					
Chromium			100	NR	ug/L	ND					
Copper			14.7	NR	ug/L	ND					
Iron			300	NR	ug/L	ND					B
Nickel			70.0	NR	ug/L	ND					
Zinc			115	NR	ug/L	ND					
LCS Analyzed: 11/18/09 (Lab Number:9K17070-BS1, Batch: 9K17070)											
Barium		200	200	NR	ug/L	200	100	85-115			
Chromium		200	10.0	NR	ug/L	204	102	85-115			
Copper		200	25.0	NR	ug/L	201	100	85-115			
Iron		10000	100	NR	ug/L	10100	101	85-115			
Nickel		200	40.0	NR	ug/L	205	102	85-115			
Zinc		200	20.0	NR	ug/L	209	104	85-115			
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 11/18/09 (Lab Number:9K18013-BLK1, Batch: 9K18013)											
Selenium			4.6	NR	ug/L	ND					
Thallium			4.0	NR	ug/L	ND					B
LCS Analyzed: 11/18/09 (Lab Number:9K18013-BS1, Batch: 9K18013)											
Selenium		20.0	4.6	NR	ug/L	19.6	98	85-115			
Thallium		20.0	4.0	NR	ug/L	20.4	102	85-115			
Matrix Spike Analyzed: 11/18/09 (Lab Number:9K18013-MS1, Batch: 9K18013)											
QC Source Sample: RSK0770-01											
Selenium	5.10	20.0	4.6	NR	ug/L	25.5	102	70-130			
Thallium	0.196	20.0	4.0	NR	ug/L	21.2	105	70-130			
Matrix Spike Dup Analyzed: 11/18/09 (Lab Number:9K18013-MSD1, Batch: 9K18013)											
QC Source Sample: RSK0770-01											
Selenium	5.10	20.0	4.6	NR	ug/L	24.9	99	70-130	2	20	
Thallium	0.196	20.0	4.0	NR	ug/L	21.1	105	70-130	0.1	20	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 11/16/09 (Lab Number:9K16122-BLK1, Batch: 9K16122)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 11/16/09 (Lab Number:9K16122-BS1, Batch: 9K16122)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	55.4	111	85-115			
General Chemistry Parameters											
LCS Analyzed: 11/16/09 (Lab Number:9K16123-BS1, Batch: 9K16123)											
pH		7.00	NA	NR	SU	6.98	100	99.3-100.8			
General Chemistry Parameters											
Blank Analyzed: 11/19/09 (Lab Number:9K17110-BLK1, Batch: 9K17110)											
Phenolics, Total Recoverable			8.00	NR	ug/L	9.40					
LCS Analyzed: 11/19/09 (Lab Number:9K17110-BS1, Batch: 9K17110)											
Phenolics, Total Recoverable		765	40.0	NR	ug/L	728	95	75-125			D08,B
General Chemistry Parameters											
Blank Analyzed: 11/17/09 (Lab Number:9K17117-BLK1, Batch: 9K17117)											
Biochemical Oxygen Demand			5.0	NR	mg/L	ND					
LCS Analyzed: 11/17/09 (Lab Number:9K17117-BS1, Batch: 9K17117)											
Biochemical Oxygen Demand		198	2.0	NR	mg/L	185	94	85-115			
Matrix Spike Analyzed: 11/17/09 (Lab Number:9K17117-MS1, Batch: 9K17117)											
QC Source Sample: RSK0770-01											
Biochemical Oxygen Demand	ND	198	2.0	NR	mg/L	174	88	22-178			
General Chemistry Parameters											
Blank Analyzed: 11/17/09 (Lab Number:9K17118-BLK1, Batch: 9K17118)											
Nitrate			0.050	NR	mg/L as N	ND					
LCS Analyzed: 11/17/09 (Lab Number:9K17118-BS1, Batch: 9K17118)											
Nitrate		1.50	0.050	NR	mg/L as N	1.41	94	90-110			
Duplicate Analyzed: 11/17/09 (Lab Number:9K17118-DUP1, Batch: 9K17118)											
QC Source Sample: RSK0770-01											

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Duplicate Analyzed: 11/17/09 (Lab Number:9K17118-DUP1, Batch: 9K17118)											
Nitrate	3.22		0.100	NR	mg/L as N	3.19			0.8	20	D08
Matrix Spike Analyzed: 11/17/09 (Lab Number:9K17118-MS1, Batch: 9K17118)											
QC Source Sample: RSK0770-01											
Nitrate	3.22	2.00	0.100	NR	mg/L as N	5.24	101	77-123			D08
General Chemistry Parameters											
Blank Analyzed: 11/17/09 (Lab Number:9K18004-BLK1, Batch: 9K18004)											
Nitrite			0.050	NR	mg/L as N	ND					
LCS Analyzed: 11/17/09 (Lab Number:9K18004-BS1, Batch: 9K18004)											
Nitrite		1.50	0.050	NR	mg/L as N	1.49	100	90-110			
Duplicate Analyzed: 11/17/09 (Lab Number:9K18004-DUP1, Batch: 9K18004)											
QC Source Sample: RSK0770-01											
Nitrite	0.220		0.050	NR	mg/L as N	0.212			4	20	
Matrix Spike Analyzed: 11/17/09 (Lab Number:9K18004-MS1, Batch: 9K18004)											
QC Source Sample: RSK0770-01											
Nitrite	0.220	1.00	0.050	NR	mg/L as N	1.30	108	61-147			
General Chemistry Parameters											
Blank Analyzed: 11/18/09 (Lab Number:9K18014-BLK1, Batch: 9K18014)											
Total Suspended Solids			10.0	NR	mg/L	ND					
LCS Analyzed: 11/18/09 (Lab Number:9K18014-BS1, Batch: 9K18014)											
Total Suspended Solids		923	4.0	NR	mg/L	892	97	88-110			
General Chemistry Parameters											
Blank Analyzed: 11/18/09 (Lab Number:9K18015-BLK1, Batch: 9K18015)											
Total Dissolved Solids			4.0	NR	mg/L	ND					
LCS Analyzed: 11/18/09 (Lab Number:9K18015-BS1, Batch: 9K18015)											
Total Dissolved Solids		500	4.0	NR	mg/L	484	97	85-115			
General Chemistry Parameters											
Blank Analyzed: 11/18/09 (Lab Number:9K18061-BLK1, Batch: 9K18061)											
Chemical Oxygen Demand			40.0	NR	mg/L	ND					

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 11/18/09 (Lab Number:9K18061-BS1, Batch: 9K18061)											
Chemical Oxygen Demand		25.0	10.0	NR	mg/L	27.2	109	90-110			
General Chemistry Parameters											
Blank Analyzed: 11/19/09 (Lab Number:9K19032-BLK1, Batch: 9K19032)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 11/19/09 (Lab Number:9K19032-BS1, Batch: 9K19032)											
Ammonia as N		0.750	0.100	NR	mg/L as N	0.813	108	90-110			

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSK0770

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 11/16/09
Reported: 12/11/09 15:42

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Nitrogen, Total Kjeldahl											
Blank Analyzed: 12/10/09 (Lab Number:220-34155-7, Batch: 34150)											
Nitrogen, Total Kjeldahl			0.50	0.050	mg/L	ND		-			
LCS Analyzed: 12/10/09 (Lab Number:220-34155-8, Batch: 34150)											
Nitrogen, Total Kjeldahl		2.47	0.50	0.050	mg/L	2.40	97	85-115			

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 Environmental	JRK	11-16-09	099384
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
6 Gellatly Dr.	(845) 223-9944		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Wappingers Falls	NY	12590	Chip McLeod	
Project Name and Location (State)	**Carrier/Waybill Number**
Airco Parcel	
Contract/Purchase Order/Quote No.
Quarterly Discharge Monitoring

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 1200.8	PP VOAS	TKN	Ammonia	Nitrate	Nitrite	BOD	TDS/TSS	D.O./PH-1	CR+6 WQ	TPhenols	Estflrat	Special Instructions/ Conditions of Receipt
AP-EWE-01	9-16-09	16:00		1			4	2	1	2															

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)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Brad Z Mc	11-16	18:00		11/16/09	1800
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

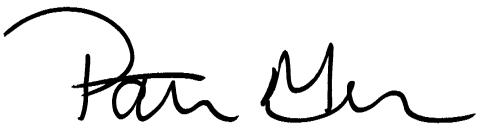
Job Number: 220-10867-1

SDG Number: 220-10867

Job Description: Greenstar Environmental - RSK0770

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

Attention: Mr. Jason Kacalski



Approved for release.
Patty A Mercure
12/11/2009 12:52 PM

Designee for
Johanna Dubauskas
Project Manager I
johanna.dubauskas@testamericainc.com
12/11/2009

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

Table of Contents

Comments
No additional comments.

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

General Chemistry
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
220-10867-1	**RSK0770-01**					
Nitrogen, Total Kjeldahl		0.25	J	0.50	mg/L	351.2

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Description	Lab Location	Method	Preparation Method
Matrix Water			
Nitrogen, Total Kjeldahl	TAL CT	MCAWW 351.2	
Nitrogen, Total Kjeldahl	TAL CT		MCAWW 351.2

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

METHOD / ANALYST SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Method	Analyst	Analyst ID
MCAWW 351.2	Natoli, Richard A	RN

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-10867-1	RSK0770-01	Water	11/16/2009 1600	12/03/2009 0940

SAMPLE RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

General Chemistry

Client Sample ID: **RSK0770-01**

Lab Sample ID: 220-10867-1
Client Matrix: Water

Date Sampled: 11/16/2009 1600
Date Received: 12/03/2009 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrogen, Total Kjeldahl	0.25	J	mg/L	0.050	0.50	1.0	351.2

Analysis Batch: 220-34155 Date Analyzed: 12/10/2009 1442
Prep Batch: 220-34150 Date Prepared: 12/08/2009 1600

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

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

QUALITY CONTROL RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 220-34150					
LCS 220-34150/2-A	Lab Control Sample	T	Water	351.2	
MB 220-34150/1-A	Method Blank	T	Water	351.2	
220-10867-1	RSK0770-01	T	Water	351.2	
220-10871-D-2-B DU	Duplicate	T	Water	351.2	
220-10871-D-2-C MS	Matrix Spike	T	Water	351.2	
Analysis Batch:220-34155					
LCS 220-34150/2-A	Lab Control Sample	T	Water	351.2	220-34150
MB 220-34150/1-A	Method Blank	T	Water	351.2	220-34150
220-10867-1	RSK0770-01	T	Water	351.2	220-34150
220-10871-D-2-B DU	Duplicate	T	Water	351.2	220-34150
220-10871-D-2-C MS	Matrix Spike	T	Water	351.2	220-34150

Report Basis
T = Total

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Method Blank - Batch: 220-34150

Method: 351.2
Preparation: 351.2

Lab Sample ID: MB 220-34150/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2009 1434
Date Prepared: 12/08/2009 1600

Analysis Batch: 220-34155
Prep Batch: 220-34150
Units: mg/L

Instrument ID: Konelab Aqua 20
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
Nitrogen, Total Kjeldahl	0.50	U	0.050	0.50

Lab Control Sample - Batch: 220-34150

Method: 351.2
Preparation: 351.2

Lab Sample ID: LCS 220-34150/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2009 1434
Date Prepared: 12/08/2009 1600

Analysis Batch: 220-34155
Prep Batch: 220-34150
Units: mg/L

Instrument ID: Konelab Aqua 20
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Total Kjeldahl	2.47	2.40	97	85 - 115	

Matrix Spike - Batch: 220-34150

Method: 351.2
Preparation: 351.2

Lab Sample ID: 220-10871-D-2-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2009 1442
Date Prepared: 12/08/2009 1600

Analysis Batch: 220-34155
Prep Batch: 220-34150
Units: mg/L

Instrument ID: Konelab Aqua 20
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Total Kjeldahl	0.50	U	2.00	1.90	95	75 - 125	

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

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
Sdg Number: 220-10867

Duplicate - Batch: 220-34150

Method: 351.2
Preparation: 351.2

Lab Sample ID: 220-10871-D-2-B DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2009 1442
Date Prepared: 12/08/2009 1600

Analysis Batch: 220-34155
Prep Batch: 220-34150
Units: mg/L

Instrument ID: Konelab Aqua 20
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrogen, Total Kjeldahl	0.50	U	0.50	NC	20	U

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

MISCELLANEOUS DOCUMENTS

10867

SUBCONTRACT ORDER
TestAmerica Buffalo
RSK0770

SENDING LABORATORY:	**RECEIVING LABORATORY:**
TestAmerica Buffalo	TestAmerica Connecticut
10 Hazelwood Drive	128 Long Hill Cross Road
Amherst, NY 14228	Shelton, CT 06484
Phone: 716-691-2600	Phone :(203) 944-1307
Fax: 716-691-7991	Fax: -
Project Manager: Jason Kacalski	Project Location: _UNKNOWN
Client: Greenstar Environmental Solutions, LLC	Receipt Temperature:________°C Ice: Y / N

Report: Level 2 Report

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RSK0770-01 (AP-EWE-01 - Water)			Sampled: **11/16/09 16:00**			
WC - TKN 351.2	mg/L	12/02/09	12/14/09 16:00	$0.00	0%	A00088,
Containers Supplied:						

REPLACEMENT VOLUME

PASSED RAD SCREEN

1.0°C gun#1

[signature] Buffalo	12/02/09 1630	K Blacker	12/3/09 940
Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

WORK ORDER LOGIN REVIEW

RSK0770

TestAmerica Buffalo

Greenstar Environmental Solutions, LLC

Sample	Client ID	Sample Alias	Sample Date/Time	Received Date/Time	QC Sam
RSK0770-01	AP-EWE-01	AP-EWE-01	11/16/09 16:00	11/16/09 18:00	False
RSK0770-01	AP-EWE-01	AP-EWE-01	11/16/09 16:00	11/16/09 18:00	False
RSK0770-02	TRIP BLANK	TRIP BLANK	11/16/09 00:00	11/16/09 18:00	False

Reviewed By

Date

TESTAMERICA CONNECTICUT
PRESERVATIVE RECORD

Job Number: 220-10867
Client: TA-Buffalo
Client Project:

Lab Number	Preservative	pH	Adjustment (mLs)	pH after Adjustment	Preservative Lot Number	Initials	Date
10867 (1)	H2SO4	<2	NA	NA	NA	VA	12-3-09

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc.

Job Number: 220-10867-1
SDG Number: 220-10867

Login Number: 10867
List Source: TestAmerica Connecticut
Creator: Blocker, Kristina
List Number: 1

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	1.0C
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	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica - Connecticut
Internal Chain-of-Custody

220-10867
TA-Buffalo

Trip Blank:

QC: ~~Air:~~

FB:

~~Soil:~~ Water: #1

Date Received: 12-3-09

Sample #s: 1

Locations: MISC-A

Laboratory Sample #	Signature-Sample Removal	Date	Time	Reason	Signature-Sample Return	Date	Time
1	N	12/8/09	1435	TCL	N	12/8	1600

12/11/09

Attachment G

Monthly Operation and Maintenance Details
July – December 2009

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 2009. It includes a summary of ongoing operations, system repairs, corrective actions, improvements, and an evaluation of the groundwater collection and treatment system (GCTS) performance.

2. ROUTINE OPERATION AND MAINTENANCE

A revision to the discharge limit was requested in the 1st 2009 Bi-Annual report. The increase was requested from 21,600 gallons per day (gpd) discharge limit to 28,800 gpd. Comparing the discharge flow rates to the revised value, the system exceeded 28,800 only twice, in August. During this report period, the overall system average flow rate was 15.7 gallons per minute (gpm).

Table 2 of the Bi-Annual 2009 Monitoring Event Letter Report provides a summary of the quarterly effluent analytical data from the August and November 2009 sampling events. 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, 4,169,062 gal of groundwater were treated and discharged to the stormwater swale adjacent to the engineered wetlands. The system average flow rate was 15.7 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, and six times due to high levels in T-8. No releases to the environment occurred during the reporting period.

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 3.0 pounds (lb) of total chromium was treated by the GCTS, of which an estimated 1.9 lb was hexavalent chromium. 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 2009

The system was operational for all 31 days in July. An alarm condition was reported once during July. The alarm condition was due to high water levels in T-8. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during July.

- 7 July 2009 – Routine site visit. Cleaned and calibrated pH probes in T3B and T6B. Cut grass around T-7 and T-8.
- 21 July 2009 – Routine site visit. Cut grass around T-7 and T-8. Set rat poison in T-1 shed. Collect confirmation sample and submit to Test America to confirm elevated Cr^{+6} levels at SS-1. Cut down weeds blocking solar panel.
- 23 July 2009 – Remote monitoring response to T-8 high level alarm caused by excessive rain. Changed set points, pumped T-8 down, and reset alarms.

August 2009

The system was operational for all 31 days in August. An alarm condition was reported once during August. The alarm condition was due to high water levels in T-8. No unscheduled shut downs occurred. The following details the activities which were performed during August.

- 9 August 2009 – Remote monitoring response to T-8 high level alarm caused by excessive rain. Changed set points, pumped T-8 down, and reset alarms.
- 10 August 2009 – Routine site visit. Cut grass around T-7 and T-8. Put up wallboard in T-1 shed. Collected Quarterly effluent sampling.
- 19 August 2009 – Routine site visit. Cut grass around T-7 and T-8. Weed whack around solar panel and other locations near the GCTS. Placed 4x4 blocking in T-1 floor to keep out mice.

September 2009

The system was operational for all 30 days in September. Alarm conditions were reported once during September. The alarm condition was due to high water levels in T-8. No unscheduled shut downs occurred. The following details the activities which were performed during September.

- 1 September 2009 – Routine site visit. Cut grass around T-7 and T-8. Recalibrate field pH meter.
- 16 September 2009 – Remote monitoring response to T-8 low level alarm caused by evaporation. Changed set points, added water to T-8 from T-1 and reset alarms.
- 17 September 2009 – Routine site visit. Cut grass around T-7 and T-8.
- 23 September 2009 – Remote monitoring response to T3A high level. Had Ridgeway personnel mobilize to the site to remove calcium build-up in crossover pipes. Alarm condition was resolved once calcium blockage was removed.

October 2009

The system was operational for 31 days in October. Alarm conditions were reported once during October. The alarm condition was due to low water level in T-7. The system had one scheduled and no unscheduled shut downs. The scheduled shutdown was for system cleaning. The system remained operational during the system cleaning. The following details the activities which were performed to during April.

- 3 October 2009 – Routine site visit. Commenced system bypass for complete system cleaning. System cleaning was completed on 13 October 2009. In addition to system cleaning the following repairs were completed to address issues identified in the engineering inspections:
    - Cap mowing and vegetation removal.
    - Additional gravel added to areas on the access road where water typically ponds up near the treatment system and the front gate.
    - Added weed control fabric and stone around solar panel to reduce routine O&M around the solar panel.
    - Grinded, primed and painted the eight monitoring wells safety blue.
    - Generator and generator pad was removed, the soft unsuitable materials removed from under the pad, compacted structural fill added, and the generator pad and generator placed back on the pad and reconnected.
    - The section of swale in the SW corner where soils were noted to have sloughed into the swale was removed, and the stone in the swale replaced.
    - The stressed area of vegetation in the SW corner was scarified, additional topsoil added and the area seeded.
- 22 October 2009 – Remote monitoring response to low level alarm in T-7. Visually checked water level in T-7 using the remote T-8 camera. Level appeared to be normal.
- 23 October 2009 – Routine site visit. Clean and reset T-7 pressure transmitter. Run SS-01 sample to lab to verify chrome levels leaving site. Installed repaired network camera on office shed.

November 2009

The system was operational for 30 days in November. No alarm conditions were reported. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during November.

- 7 November 2009 – Routine site visit. Perform inspection for engineers report.
- 15 November 2009 – Emergency response mobilization responding to one of the PLC's being offline. Upon arrival and diagnosis it was determined that the PLC's were all functioning properly, and that the Ethernet jack was faulty. The jack and cable integrating the main PLC was replaced
- 16 – 18 November 2009 – Routine site visit. Winterize system, turn on heaters and heat trace. Build enclosure to cover automated valve on the CO_2 tank vaporizer system to prevent freezing during winter operations. Collected Quarterly discharge sample.

December 2009

The system was operational for 31 days in December. Alarm conditions were reported once during June. The alarm condition was due to high water levels in T-8. No unscheduled shut downs occurred. The following details the activities which were performed during December.

- 8 December 2009 – Remote response to alarm condition. T-2, the CO_2 tank RTU panel was giving false data. Notified Linde through the NSC to have tech support fix RTU.
- 12 December 2009 – Routine site visit.

- 28 December 2009 – Routine site visit. Could not collect field sample at SS-01 due to excessive ice. Clean & calibrate pH probes.

4. MODIFICATIONS/IMPROVEMENTS AND RECOMMENDATIONS

4.1 SYSTEM MODIFICATION/IMPROVEMENTS

No system modifications to the GCTS were performed during the report period.

5. PROJECTED OPERATION AND MAINTENACE

5.1 JANUARY – JUNE 2010

During the first bi-annual report period of 2010, Greenstar anticipates performing routine operation and maintenance activities. Routine activities during the first report period will include routine cleaning and calibration, pump replacements, as required.

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 June 2010 from the GCTS to monitor the New York State Department of Environmental Conservation discharge permit guidelines. The first bi-annual groundwater monitoring event for 2010 is anticipated to occur in April 2010.

Attachment G.1

Airco Parcel Bi-Weekly System Monitoring Checklists July – December 2009

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

Date: 7/9/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Partly cloudy 78 degrees		
READING		*ITEM*
229		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5105		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.04		T3B pH Reading
614.5		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.4		T6B pH
613.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.2		T7 pH
0.9		T8 Water Elevation
18,210,814		Flow Meter Reading
14		Average System Flow
19.3		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.100	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.115	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.001	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.027	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.012	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
-0.005	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.009	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.025	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.62		Calcium Settling Pond Effluent (T3)
6.76		Iron Settling Pond Effluent (T6)
6.87		Engineered Wetland Effluent (T7)
7.46		Southwest Corner Effluent (SS-1)
Notes: Cut grass around T-7/ Recal. All Ph probes		

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

Date: 7/21/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Rain		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
8602		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.11		T3B pH Reading
613.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.5		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.5		T6B pH
612.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.2		T7 pH
0.8		T8 Water Elevation
18,491,318		Flow Meter Reading
17		Average System Flow
19.5		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.050	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.136	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.030	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.003	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.004	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.015	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*
6.52		Calcium Settling Pond Effluent (T3)
6.69		Iron Settling Pond Effluent (T6)
6.74		Engineered Wetland Effluent (T7)
7.22		Southwest Corner Effluent (SS-1)
Notes: Cut lawn around T-7/Set rat poison in T-1 shed/Bring sample to lab to confirm elevated CR+6 levels atSS-1/Cut down weeds blocking solar panel		

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

Date: 8/10/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Rain/overcast 80 degrees		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
10,475		Carbon Dioxide Tank Liquid Level
2.7		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
5.7		T3B pH Reading
613.3		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
6.5		T6B pH
614.1		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.3		T7 pH
1.7		T8 Water Elevation
18,991,138		Flow Meter Reading
20		Average System Flow
20		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.093	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.095	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.013	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.029	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.006	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.000	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.011	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.016	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.71		Calcium Settling Pond Effluent (T3)
6.82		Iron Settling Pond Effluent (T6)
6.97		Engineered Wetland Effluent (T7)
7.81		Southwest Corner Effluent (SS-1)
Notes: Cut grass/ Put up wallboard in T-1 shed/ Quarterly effluent sampling		

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

Date: 8/19/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Sunny 85 degrees		
READING		*ITEM*
228		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5,843		Carbon Dioxide Tank Liquid Level
2.7		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.17		T3B pH Reading
614.0		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.5		T6B pH
614.0		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.3		T7 pH
0.8		T8 Water Elevation
19,243,444		Flow Meter Reading
18		Average System Flow
20.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.075	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.119	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.011	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.019	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.002	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
ND	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.006	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.014	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.78		Calcium Settling Pond Effluent (T3)
7.02		Iron Settling Pond Effluent (T6)
6.98		Engineered Wetland Effluent (T7)
7.67		Southwest Corner Effluent (SS-1)
Notes: Cut grass- Weed whack/ put 4x4 blocking in T-1 floor to keep out mice		

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

Date: 9/1/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun, 70 degrees		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,407		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.3		T3A Water Elevation
6.11		T3B pH Reading
613.8		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.5		T6B pH
612.4		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.2		T7 pH
0.8		T8 Water Elevation
19,577,644		Flow Meter Reading
14		Average System Flow
20.5		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.106	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.108	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.004	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.002	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.000	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
0.010	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.17		Calcium Settling Pond Effluent (T3)
6.30		Iron Settling Pond Effluent (T6)
6.54		Engineered Wetland Effluent (T7)
7.27		Southwest Corner Effluent (SS-1)
Notes: Cut grass around T-7 / Recalibrate field ph meter		

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

Date: 9-17-09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 80 degrees		
READING		*ITEM*
228		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,893		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
616.4		T3A Water Elevation
5.9		T3B pH Reading
613.5		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.0		T6A Water Elevation
6.5		T6B pH
613.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.2		T7 pH
0.7		T8 Water Elevation
19,999,238		Flow Meter Reading
17		Average System Flow
21.0		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.038	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.105	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.002	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.010	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
0.005	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*
5.8		Calcium Settling Pond Effluent (T3)
6.42		Iron Settling Pond Effluent (T6)
6.1		Engineered Wetland Effluent (T7)
7.25		Southwest Corner Effluent (SS-1)
Notes: Cut grass around T-7		

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

Date: 10-3-09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: overcast 55 degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5710		Carbon Dioxide Tank Liquid Level
3.3		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
5.8		T3B pH Reading
614.3		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
6.5		T6B pH
612.6		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.2		T7 pH
0.9		T8 Water Elevation
20,362,976		Flow Meter Reading
14		Average System Flow
21.6		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.041	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.108	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.001	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.013	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
0.006	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*
6.39		Calcium Settling Pond Effluent (T3)
6.19		Iron Settling Pond Effluent (T6)
6.40		Engineered Wetland Effluent (T7)
7.05		Southwest Corner Effluent (SS-1)
Notes:		

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

Date: 10-23-09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Rain 40 degrees		
READING		*ITEM*
235		Carbon Dioxide Storage Tank Pressure (220-235 psi)
10,800		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.22		T3B pH Reading
614.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.2		T6B pH
612.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
613.7		T7 Water Level Reading
7.0		T7 pH
1.2		T8 Water Elevation
20,639,744		Flow Meter Reading
13		Average System Flow
21.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.008	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.114	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.003	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.019	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.006	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.014	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.019	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.55		Calcium Settling Pond Effluent (T3)
6.32		Iron Settling Pond Effluent (T6)
7.07		Engineered Wetland Effluent (T7)
7.17		Southwest Corner Effluent (SS-1)

Notes: Clean and reset T-7 pressure transmitter. Run samples to lab to verify chrome levels leaving site / Install repaired network camera on office shed

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

Date: 11-7-09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 65 degrees		
READING		*ITEM*
232		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9015		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
616.1		T3A Water Elevation
5.8		T3B pH Reading
614.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.4		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.3		T6B pH
613.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
6.7		T7 pH
2.3		T8 Water Elevation
20,987,596		Flow Meter Reading
15		Average System Flow
22.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.056	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
0.039	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.005	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.023	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.020	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*
6.42		Calcium Settling Pond Effluent (T3)
6.32		Iron Settling Pond Effluent (T6)
6.90		Engineered Wetland Effluent (T7)
7.25		Southwest Corner Effluent (SS-1)
Notes: Perform inspection for engineers report. Not able to bring samples to lab to confirm elevated chrome levels at SS-1 Lab closed.		

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

Date: 11/17/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 40 degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
3,541		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.15		T3B pH Reading
613.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.7		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.3		T6B pH
612.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
6.6		T7 pH
3.4		T8 Water Elevation
21,190,148		Flow Meter Reading
14		Average System Flow
22.3		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.059	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.131	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.005	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.023	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.002	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.012	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.007	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.010	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.45		Calcium Settling Pond Effluent (T3)
6.24		Iron Settling Pond Effluent (T6)
6.82		Engineered Wetland Effluent (T7)
7.10		Southwest Corner Effluent (SS-1)
Notes: Winterize system/Build enclosure for Co2 valve/Quarterly discharge sampling		

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

Date: 12/12/09	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Clear Cold 20 Degrees		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
11,213		Carbon Dioxide Tank Liquid Level
3.3		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
613.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.6		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.8		T7 Water Level Reading
6.4		T7 pH
3.0		T8 Water Elevation
21,721,646		Flow Meter Reading
13		Average System Flow
23.4		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.013	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.086	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.013	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.028	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.006	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.026	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.009	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.019	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.69		Calcium Settling Pond Effluent (T3)
6.67		Iron Settling Pond Effluent (T6)
7.01		Engineered Wetland Effluent (T7)
7.31		Southwest Corner Effluent (SS-1)
Notes:		

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

Date: 12/28/10	**Project No.: 1038**	**Greenstar Personnel:** Bruce Vinal
Weather: Snow 29Degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6,108		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
616.2		T3A Water Elevation
6.1		T3B pH Reading
613.0		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.4		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
612.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.7		T7 Water Level Reading
6.3		T7 pH
3.2		T8 Water Elevation
22,107,006		Flow Meter Reading
16		Average System Flow
23.7		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.144	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.075	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.003	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.050	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
-0.008	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.030	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
N/A	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
N/A	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.60		Calcium Settling Pond Effluent (T3)
6.65		Iron Settling Pond Effluent (T6)
6.86		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: T-1 Sample location Frozen over / Clean & calibrate Ph probes/		

Attachment G.2

Airco Parcel GCTS
Monthly Flow Calculations
July – December 2009

Monthly Airco Parcel GCTS
Flow Calculations
July 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
7/1/2009	48	16	23,718	18,040,436	24	0
7/2/2009	44	16	23,144	18,063,580	24	0
7/3/2009	44	15	22,862	18,086,442	24	0
7/4/2009	44	15	22,468	18,108,910	24	0
7/5/2009	44	15	22,182	18,131,092	24	0
7/6/2009	44	15	22,314	18,153,406	24	0
7/7/2009	44	15	21,876	18,175,282	24	0
7/8/2009	44	15	21,928	18,197,210	24	0
7/9/2009	44	15	21,652	18,218,862	24	0
7/10/2009	44	14	21,190	18,240,052	24	0
7/11/2009	44	16	24,000	18,264,052	24	0
7/12/2009	43	15	21,604	18,285,656	24	0
7/13/2009	43	15	21,672	18,307,328	24	0
7/14/2009	43	14	21,206	18,328,534	24	0
7/15/2009	43	15	21,660	18,350,194	24	0
7/16/2009	43	14	21,218	18,371,412	24	0
7/17/2009	44	19	27,746	18,399,158	24	0
7/18/2009	43	18	26,388	18,425,546	24	0
7/19/2009	43	18	26,122	18,451,668	24	0
7/20/2009	43	17	25,546	18,477,214	24	0
7/21/2009	43	17	25,826	18,503,040	24	0
7/22/2009	43	18	26,444	18,529,484	24	0
7/23/2009	44	21	30,508	18,559,992	24	0
7/24/2009	43	17	25,154	18,585,146	24	0
7/25/2009	43	17	25,772	18,610,918	24	0
7/26/2009	43	16	24,156	18,635,074	24	0
7/27/2009	43	16	23,420	18,658,494	24	0
7/28/2009	43	16	23,982	18,682,476	24	0
7/29/2009	42	16	24,284	18,706,760	24	0
7/30/2009	42	16	23,284	18,730,044	24	0
7/31/2009	42	16	23,734	18,753,778	24	0
Sample Measurement	**48**	**16**	**788,152**	**18,753,778**	**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 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
8/1/2009	42	16	23,390	18,777,168	24	0
8/2/2009	43	17	25,278	18,802,446	24	0
8/3/2009	42	16	23,046	18,825,492	24	0
8/4/2009	42	16	23,150	18,848,642	24	0
8/5/2009	42	16	23,216	18,871,858	24	0
8/6/2009	42	18	26,484	18,898,342	24	0
8/7/2009	42	20	29,244	18,927,586	24	0
8/8/2009	42	19	28,766	18,956,352	24	0
8/9/2009	43	24	34,786	18,991,138	24	0
8/10/2009	43	21	31,572	19,022,710	24	0
8/11/2009	42	19	27,726	19,050,436	24	0
8/12/2009	42	18	26,110	19,076,546	24	0
8/13/2009	41	17	25,900	19,102,446	24	0
8/14/2009	41	17	25,580	19,128,026	24	0
8/15/2009	41	17	25,790	19,153,816	24	0
8/16/2009	41	17	25,840	19,179,656	24	0
8/17/2009	44	18	26,008	19,205,664	24	0
8/18/2009	45	18	26,184	19,231,848	24	0
8/19/2009	45	18	26,392	19,258,240	24	0
8/20/2009	44	19	27,556	19,285,796	24	0
8/21/2009	40	18	27,338	19,313,134	24	0
8/22/2009	40	19	27,708	19,340,842	24	0
8/23/2009	40	19	28,584	19,369,426	24	0
8/24/2009	40	19	27,568	19,396,994	24	0
8/25/2009	40	19	27,748	19,424,742	24	0
8/26/2009	40	19	27,514	19,452,256	24	0
8/27/2009	40	19	27,536	19,479,792	24	0
8/28/2009	40	14	21,388	19,501,180	24	0
8/29/2009	40	16	23,074	19,524,254	24	0
8/30/2009	40	15	22,350	19,546,604	24	0
8/31/2009	40	15	21,722	19,568,326	24	0
Sample Measurement	**45**	**18**	**814,548**	**19,568,326**	**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 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
9/1/2009	40	14	21,408	19,589,734	24	0
9/2/2009	40	15	21,686	19,611,420	24	0
9/3/2009	40	18	26,008	19,637,428	24	0
9/4/2009	40	19	27,814	19,665,242	24	0
9/5/2009	39	19	27,840	19,693,082	24	0
9/6/2009	39	19	28,000	19,721,082	24	0
9/7/2009	39	19	27,588	19,748,670	24	0
9/8/2009	39	19	27,400	19,776,070	24	0
9/9/2009	39	18	26,972	19,803,042	24	0
9/10/2009	39	18	26,762	19,829,804	24	0
9/11/2009	42	18	26,664	19,856,468	24	0
9/12/2009	39	18	26,378	19,882,846	24	0
9/13/2009	39	18	26,158	19,909,004	24	0
9/14/2009	38	17	25,674	19,934,678	24	0
9/15/2009	38	17	25,594	19,960,272	24	0
9/16/2009	38	17	24,586	19,984,858	24	0
9/17/2009	44	16	23,896	20,008,754	24	0
9/18/2009	44	16	23,972	20,032,726	24	0
9/19/2009	44	16	24,152	20,056,878	24	0
9/20/2009	44	16	23,668	20,080,546	24	0
9/21/2009	44	16	23,936	20,104,482	24	0
9/22/2009	44	15	22,998	20,127,480	24	0
9/23/2009	45	16	24,418	20,151,898	24	0
9/24/2009	44	15	22,498	20,174,396	24	0
9/25/2009	44	15	22,720	20,197,116	24	0
9/26/2009	44	15	22,456	20,219,572	24	0
9/27/2009	44	16	24,378	20,243,950	24	0
9/28/2009	44	17	25,004	20,268,954	24	0
9/29/2009	44	15	22,806	20,291,760	24	0
9/30/2009	44	14	20,926	20,312,686	24	0
Sample Measurement	**45**	**17**	**744,360**	**20,312,686**	**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 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
10/1/2009	44	14	21,266	20,333,952	24	0
10/2/2009	43	15	22,292	20,356,244	24	0
10/3/2009	43	15	21,140	20,377,384	24	0
10/4/2009	43	4	5,776	20,383,160	24	0
10/5/2009*	0	0	0	20,383,160	24	0
10/6/2009*	0	0	0	20,383,160	24	0
10/7/2009*	0	0	0	20,383,160	24	0
10/8/2009*	0	0	0	20,383,160	24	0
10/9/2009*	0	0	0	20,383,160	24	0
10/10/2009*	0	0	0	20,383,160	24	0
10/11/2009	46	7	10,640	20,393,800	24	0
10/12/2009	46	18	26,554	20,420,354	24	0
10/13/2009	46	18	26,944	20,447,298	24	0
10/14/2009	45	13	19,204	20,466,502	24	0
10/15/2009	45	14	21,038	20,487,540	24	0
10/16/2009	45	14	20,678	20,508,218	24	0
10/17/2009	45	14	20,208	20,528,426	24	0
10/18/2009	50	14	20,166	20,548,592	24	0
10/19/2009	45	14	20,420	20,569,012	24	0
10/20/2009	45	13	19,608	20,588,620	24	0
10/21/2009	45	13	19,730	20,608,350	24	0
10/22/2009	45	13	19,506	20,627,856	24	0
10/23/2009	45	15	22,018	20,649,874	24	0
10/24/2009	45	17	25,838	20,675,712	24	0
10/25/2009	45	17	25,380	20,701,092	24	0
10/26/2009	45	17	25,202	20,726,294	24	0
10/27/2009	45	16	23,336	20,749,630	24	0
10/28/2009	44	16	24,310	20,773,940	24	0
10/29/2009	44	15	22,596	20,796,536	24	0
10/30/2009	44	16	23,406	20,819,942	24	0
10/31/2009	44	16	24,218	20,844,160	24	0
Sample Measurement	**50**	**12**	**531,474**	**16,493,904**	**30***	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

*System was taken offline for routine system cleaning. T8 pond was utilized to allow continual pumping from T1 to prevent uncontrolled discharge of leachate offsite.

Monthly Airco Parcel GCTS
Flow Calculations
November 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
11/1/2009	44	14	21,420	20,865,580	24	0
11/2/2009	44	15	21,624	20,887,204	24	0
11/3/2009	44	15	22,382	20,909,586	24	0
11/4/2009	44	15	21,762	20,931,348	24	0
11/5/2009	44	14	21,148	20,952,496	24	0
11/6/2009	44	14	21,542	20,974,038	24	0
11/7/2009	44	15	22,174	20,996,212	24	0
11/8/2009	44	15	21,686	21,017,898	24	0
11/9/2009	44	15	22,568	21,040,466	24	0
11/10/2009	44	15	22,362	21,062,828	24	0
11/11/2009	44	14	20,412	21,083,240	24	0
11/12/2009	44	14	21,152	21,104,392	24	0
11/13/2009	44	14	21,226	21,125,618	24	0
11/14/2009	47	16	23,974	21,149,592	24	0
11/15/2009	44	16	24,340	21,173,932	24	0
11/16/2009	44	14	21,554	21,195,486	24	0
11/17/2009	44	15	22,146	21,217,632	24	0
11/18/2009	44	17	25,718	21,243,350	24	0
11/19/2009	44	15	22,762	21,266,112	24	0
11/20/2009	43	15	21,594	21,287,706	24	0
11/21/2009	43	15	21,734	21,309,440	24	0
11/22/2009	43	14	20,710	21,330,150	24	0
11/23/2009	43	14	21,232	21,351,382	24	0
11/24/2009	43	14	21,098	21,372,480	24	0
11/25/2009	43	14	20,618	21,393,098	24	0
11/26/2009	43	15	22,200	21,415,298	24	0
11/27/2009	43	14	20,176	21,435,474	24	0
11/28/2009	43	15	21,732	21,457,206	24	0
11/29/2009	43	16	23,042	21,480,248	24	0
11/30/2009	43	14	20,416	21,500,664	24	0
11/1/2009	44	14	21,420	20,865,580	24	0
Sample Measurement	**47**	**15**	**656,504**	**20,865,580**	**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 2009

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
12/1/2009	43	14	21,150	21,521,814	24	0
12/2/2009	43	16	23,534	21,545,348	24	0
12/3/2009	43	13	19,560	21,564,908	24	0
12/4/2009	43	13	19,502	21,584,410	24	0
12/5/2009	43	13	19,468	21,603,878	24	0
12/6/2009	43	13	18,916	21,622,794	24	0
12/7/2009	43	13	19,368	21,642,162	24	0
12/8/2009	43	17	25,864	21,668,026	24	0
12/9/2009	43	14	21,066	21,689,092	24	0
12/10/2009	43	13	19,508	21,708,600	24	0
12/11/2009	43	13	19,706	21,728,306	24	0
12/12/2009	43	16	23,864	21,752,170	24	0
12/13/2009	42	16	24,338	21,776,510	24	0
12/14/2009	42	16	24,284	21,800,794	24	0
12/15/2009	42	16	23,950	21,824,744	24	0
12/16/2009	42	17	25,804	21,850,548	24	0
12/17/2009	42	16	24,448	21,874,996	24	0
12/18/2009	42	16	23,810	21,898,806	24	0
12/19/2009	42	16	23,870	21,922,676	24	0
12/20/2009	42	16	23,994	21,946,670	24	0
12/21/2009	42	17	24,906	21,971,576	24	0
12/22/2009	42	16	23,574	21,995,150	24	0
12/23/2009	42	15	22,892	22,018,042	24	0
12/24/2009	42	13	18,890	22,036,932	24	0
12/25/2009	42	13	18,890	22,055,821	24	0
12/26/2009	42	13	18,890	22,074,711	24	0
12/27/2009	42	13	18,890	22,093,600	24	0
12/28/2009	42	16	23,378	22,116,978	24	0
12/29/2009	42	15	22,424	22,139,402	24	0
12/30/2009	42	16	23,340	22,162,742	24	0
12/31/2009	42	16	23,038	22,185,780	24	0
Sample Measurement	**43**	**15**	**685,114**	**22,185,780**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Analytical Report

Work Order: RSG0759

Project Description

Semi-Annual GW Monitoring

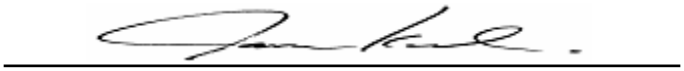
For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC

6 Gellatly Drive

Wappinger Falls, NY 12590



Jason Kacalski

Project Manager

jason.kacalski@testamericainc.com

Monday, July 27, 2009

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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 accre ditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

Case Narrative

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. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

DATA QUALIFIERS AND DEFINITIONS

NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
			Sampled:			Recvd:		

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-SS01	RSG0759-01	Water	07/21/09 16:15	07/21/09 16:43	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0759-01 (AP-SS01 - Water)					**Sampled: 07/21/09 16:15**		**Recvd: 07/21/09 16:43**		
General Chemistry Parameters									
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	07/21/09 20:05	JFR	9G21104	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
7196A	9G21104	RSG0759-01	25.00	mL	25.00	mL	07/21/09 20:05	JFR	Hex Digestion

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSG0759

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 07/21/09
Reported: 07/27/09 10:08

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 07/21/09 (Lab Number:9G21104-BLK1, Batch: 9G21104)										
Chromium, Hexavalent			0.0100	mg/L	ND					
LCS Analyzed: 07/21/09 (Lab Number:9G21104-BS1, Batch: 9G21104)										
Chromium, Hexavalent		0.0500	0.0100	mg/L	0.0490	98	85-115			
Duplicate Analyzed: 07/21/09 (Lab Number:9G21104-DUP1, Batch: 9G21104)										
QC Source Sample: RSG0759-01										
Chromium, Hexavalent	ND		0.0100	mg/L	ND				15	
Matrix Spike Analyzed: 07/21/09 (Lab Number:9G21104-MS1, Batch: 9G21104)										
QC Source Sample: RSG0759-01										
Chromium, Hexavalent	ND	0.0500	0.0100	mg/L	0.0558	112	85-115			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Greenstar Engineering PC	Project Manager: JRK	Date:	Chain of Custody Number: 099380
Address: 6 Bellatty Dr.	Telephone Number (Area Code)/Fax Number: (845) 223-9944	Lab Number:	Page _____ of _____
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact:	Lab Contact:	
Project Name and Location (State): Airco Parcel Niagara Falls	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.	Soft	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): CS+6	Special Instructions/ Conditions of Receipt
AP-5501	7-21	16:15		X			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: [signature]	7-21	16:43	1. Received By: [signature] BUFFALO	8/21/09	1643
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

12.0 °C

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

Analytical Report

Work Order: RSJ1306

Project Description

Semi-Annual GW Monitoring

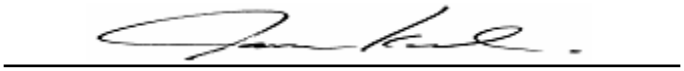
For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC

6 Gellatly Drive

Wappinger Falls, NY 12590



Jason Kacalski

Project Manager

jason.kacalski@testamericainc.com

Thursday, October 29, 2009

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

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

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Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

CASE NARRATIVE

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. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

DATA QUALIFIERS AND DEFINITIONS

NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
			Sampled:			Recvd:		

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-SS-01	RSJ1306-01	Water	10/23/09 16:50	10/23/09 17:20	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ1306-01 (AP-SS-01 - Water)					**Sampled: 10/23/09 16:50**		**Recvd: 10/23/09 17:20**		
Total Metals by EPA 200 Series Methods									
Chromium	ND		0.0040	mg/L	1.00	10/28/09 01:47	LMH	9J26067	200.7
General Chemistry Parameters									
Chromium, Hexavalent	ND		11.0	ug/L	1.00	10/23/09 22:15	JME	9J23110	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
7196A	9J23110	RSJ1306-01	25.00	mL	25.00	mL	10/23/09 22:15	JME	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	9J26067	RSJ1306-01	50.00	mL	50.00	mL	10/27/09 10:45	KCW	3005A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods										
Blank Analyzed: 10/27/09 (Lab Number:9J26067-BLK1, Batch: 9J26067)										
Chromium			0.0040	mg/L	ND					
LCS Analyzed: 10/27/09 (Lab Number:9J26067-BS1, Batch: 9J26067)										
Chromium		0.200	0.0040	mg/L	0.203	102	85-115			

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RSJ1306

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 10/23/09
Reported: 10/29/09 11:22

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 10/23/09 (Lab Number:9J23110-BLK1, Batch: 9J23110)										
Chromium, Hexavalent			11.0	ug/L	ND					
LCS Analyzed: 10/23/09 (Lab Number:9J23110-BS1, Batch: 9J23110)										
Chromium, Hexavalent		50.0	10.0	ug/L	53.7	107	85-115			
Duplicate Analyzed: 10/23/09 (Lab Number:9J23110-DUP1, Batch: 9J23110)										
QC Source Sample: RSJ1306-01										
Chromium, Hexavalent	ND		10.0	ug/L	ND				20	
Matrix Spike Analyzed: 10/23/09 (Lab Number:9J23110-MS1, Batch: 9J23110)										
QC Source Sample: RSJ1306-01										
Chromium, Hexavalent	ND	50.0	10.0	ug/L	54.5	109	75-120			

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 Environmental	JRK		099383
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
6 Gellatly Drive	(845) 223-9994		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Wappingers Falls / NY / 12590			
Project Name and Location (State)	**Carrier/Waybill Number**		
Airco Parcel			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

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	CR+6	Total Chrom.
AP SS-01	10-23-09	16:50		X			1							

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	10-23-09	17:20	1. Received By	10/23/09	1720
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

10.0°C

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