

6731 Collamer Road East Syracuse, NY 13057-9759 Telephone: 315-431-4610 Fax: 315-431-4280

30 September 2005

Mr. Michael Resh Manager of Environmental Remediation The BOC Group, Inc. 100 Mountain Avenue Murray Hill, New Jersey 07974

RE: Bi-Annual 2005 Monitoring Event Letter Report, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York EA Project No. 12040.99

Dear Mr. Resh:

EA Engineering, P.C. and its affiliate EA Science and Technology are pleased to provide the Bi-Annual 2005 Monitoring Event Letter Report. During December 2000, the post-closure monitoring and facility maintenance program was initiated at the Airco Parcel located in Niagara Falls, New York. Post-closure monitoring and facility maintenance is required by New York State Solid Waste Management Facilities Regulations (6 NYCRR Part 360-2.15[k][4]) and stipulated in Order on Consent No. B9-0470-94-12. The purpose of this monitoring event letter report is to summarize the analytical results of the first bi-annual 2005 groundwater monitoring event that was completed at this site in April 2005, and to summarize operations and maintenance activities completed from January to June 2005.

OBJECTIVES

In accordance with the Revised Final Post-Closure Monitoring and Facility Maintenance Plan (EA 2004)¹, environmental monitoring points will be maintained and sampled during the post-closure monitoring period. This includes collection of groundwater, surface water, and groundwater collection treatment system (GCTS) samples. The Post-Closure Monitoring and Facility Maintenance Plan documents sampling locations and sampling parameters and methods, in addition to other required maintenance activities, such as landfill cap inspections and the operations and maintenance plan for the GCTS. Following the first 5 years of post-closure monitoring, the original Revised Final Post-Closure Monitoring and Facility Maintenance Plan (EA 2001)² plan was reevaluated based on the data collected at the site so that the monitoring plan will be focused to address site-specific issues that may be identified.

In accordance with the updated Post-Closure Monitoring and Facility Maintenance Program the following activities must be completed:

• Environmental monitoring points must be maintained and sampled during the post-closure period. Bi-annual summary reports must be submitted to the New York State Department of Environmental Conservation (NYSDEC) Division of Solid and Hazardous Materials, Region 9;

^{1.} EA Engineering, P.C. and its Affiliate EA Science and Technology. 2004. 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.

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the State of New York Department of Health in Albany, New York; the BOC Group; and the document repository located at the Town of Niagara Town's Clerk's Office.

- Routine inspections conducted of sediment ponds and the engineered wetlands to assess the presence of mosquito larvae.
- Drainage structures and ditches must be 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 must be maintained during the post-closure monitoring and maintenance period.
- A vegetative cover must be maintained on all exposed final cover material, and adequate measures must be taken to ensure the integrity of the final vegetated cover, topsoil layer, and underlying barrier protection layer.
- The GCTS must be operated and maintained to effectively mitigate the discharge of groundwater to surface water in the southwest corner of the Airco Parcel.
- Records must be maintained of all sampling and analytical results.

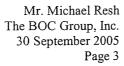
As noted above the results of the bi-annual sampling events will be summarized in a letter report detailing the findings of the environmental sampling. Monitoring event letter reports will be limited to documenting the results of each sampling round. This letter report summarizes the findings of the third bi-annual post-closure monitoring event completed at this site, along with a summary of operation and maintenance activities performed at the this site from January to June 2005.

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 Vanadium site is approximately 150 acres. This bi-annual sampling event focuses on the 25-acre Airco parcel operated by the BOC Group. The site contains waste material from the operation of onsite and nearby production facilities.

An Immediate Investigative Work Assignment was conducted by NYSDEC for a portion of the 150-acre parcel in August 1997. Approximately 70 acres from the Niagara Mohawk Power Corporation and New York Power Authority parcel were investigated. 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. According to the Immediate Investigative Work Assignment, much of the surface material consisted of fill, including fly ash, dust, slag, and cinder materials.

Analysis of site groundwater during the Immediate Investigative Work Assignment indicated that surface water and groundwater standards were exceeded for hexavalent chromium and pH. Based on the Immediate Investigative Work Assignment and other investigations, the facility has been listed as a Class 2 Hazardous Waste Site in the New York State Registry of Inactive Hazardous Waste Sites (Site No. 932001). A Class 2 listing indicates a significant threat to public health and the environment, and requires remedial action.





The Airco site remedial measures were completed as a capped landfill in 2000. A complete description of the history of the site, and the construction details of the landfill capping system, can be found in the Interim Remedial Measure Report (EA 2001b)³. During construction of the capping system a relief pipe system was installed to allow perched water to exit from under the cap without causing slope instability. Flow monitoring and quarterly sampling were initiated as part of post-closure operations and facility maintenance. The data collected since December 2000 indicated that the leachate was actually shallow groundwater discharging to surface water. The data also indicated that the discharge of groundwater at the site was seasonal. The data further indicated that elevated hexavalent chromium (Cr⁶⁺) concentrations and pH in groundwater, upon mixing with surface water, remained in excess of the ambient water quality criteria.

The GCTS was designed to implement additional remedial actions, which have been deemed necessary to meet the goals of the interim remedial measures program. The main portion of the GCTS is located on the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, two sediment ponds, duplex pump house, zero valence iron reaction tanks, manhole collection sump, engineered wetland, and an effluent pump station. At the southwest corner of the site there is an influent wetwell pump station. The GCTS located at the site is presented on Figure 2.

MONITORING EVENT FIELD ACTIVITIES

Monitoring Well Gauging

The site monitoring wells (MW-1B through MW-8B) were gauged prior to sampling on 26-27 April 2005. The depth to water ranged from 2.72 ft below top of casing at MW-6B to 11.79 ft below top of casing at MW-2B. Gauging data are summarized in the table below:

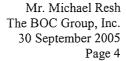
Manitaning Wall	Depth to Water	Well Elevation (ft AMSL)	Water Elevation (ft AMSL)
Monitoring Well	(ft btoc)	(RAMOL)	
MW-1B	8.87	617.77	608.90
MW-2B	11.79	615.88	604.09
MW-3B	7.56	611.22	603.66
MW-4B	5.05	606.68	601.63
MW-5B	4.65	605.48	600.83
MW-6B	2.72	603.47	600.75
MW-7B	7.96	609.48	601.52
MW-8B	7.94	611.62	603.68
NOTE: btoc =	Below top of casing.		
AMSL =	Above mean sea level		

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

Groundwater Sampling Procedures

Monitoring wells were sampled during the period 26-27 April 2005. Eight groundwater samples were collected from the site monitoring wells. Monitoring wells MW-4B, MW-5B and MW-7B were purged using dedicated bailers due to slow recharge and limited well volume. These wells were

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





bailed dry and allowed to recharge prior to sample collection. Monitoring wells MW-1B, MW-2B, MW-3B, MW-6B, and MW-8B had adequate recharge rates; consequently, 4 well volumes were removed and water quality readings allowed to stabilize prior to sample collection. Monitoring wells were sampled in order of most contaminated to least contaminated. One surface water sample was also collected southwest of monitoring well MW-6B. Samples were submitted to Life Science Laboratories, Inc. of East Syracuse, New York for analysis of phenolics by U.S. Environmental Protection Agency (EPA) Method 420.2, sulfate by EPA Method 375.3, ammonia (expressed as nitrogen) by EPA Method 350.2, and Target Analyte List metals by EPA Series 6010/6020, including hexavalent chromium.

Groundwater sampling results were compared to NYSDEC Ambient Water Quality Standards (AWQS) (NYSDEC 1999)⁴ and guidance values for Class GA waters. Class GA groundwater is used as a source of drinking water. Surface water samples were compared to NYSDEC AWQS for Class D surface waters. Class D waters are used for fishing but are not conducive to fish propagation. If no Class D standards were applicable for a particular compound, analytical results were compared to the more stringent Class C standards. Class C waters are suitable for fishing and fish propagation. Analytical results are summarized on the table provided in Attachment A. Copies of the field notebook, including the results for well gauging, purging, and sampling, are provided in Attachment B. Laboratory chain-of-custody records are provided in Attachment C. Laboratory Form I analytical results are included in Attachment D.

ANALYTICAL RESULTS

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

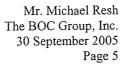
Summary tables listing analytical results compared to applicable NYSDEC AWQS are included in Attachment A, and a tag map illustrating analyte results and sampling order is provided as Figure 4. Notable results of chemical analyses are as follows.

Metals

Unfiltered metals samples were collected from 8 of the site monitoring wells. Notable results included the following:

- Cadmium, chromium, hexavalent chromium, iron, magnesium, manganese, and sodium were
 detected in one or more of the groundwater samples at concentrations in excess of NYSDEC
 AWOS.
- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-2B, MW-4B, MW-7B, and MW-8B.

^{4.} New York State Department of Environmental Conservation. 1999. Water Quality Regulations – Surface Water and Groundwater Classifications and Standards New York State Codes, Rules and Regulations Title 6, Chapter X Parts 700-706.





Water Quality Parameters

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

- Ammonia was detected in excess of NYSDEC AWQS in the sample collected from monitoring well MW-2B.
- pH measurements exceeded the NYSDEC AWQS of 6.5-8.5 standard pH units in monitoring wells MW-2B (12.25-12.44), MW-3B (9.43-10.14), and MW-8B (7.51-8.77) (Attachment B).

LANDFILL INSPECTION

A landfill cap inspection was conducted on 27 April 2005. The Landfill Cap Inspection Checklist is provided as Attachment E. No deterioration, damage, or erosion to the landfill cap was noted during the engineering inspection. The access roads were in good condition, with some vegetation observed growing in many areas of the road. A defoliant should be used to remove the vegetation in the roadways. Drainage swales are clear with the exception of the southwest swale where soils and vegetation have covered the stone swale. The inspections suggest that the soil should be removed and new stone installed.

GCTS OPERATIONS AND MAINTENANCE MONITORING ACTIVITIES

The GCTS is part of the Airco Parcel located near Witmer Road in Niagara Falls, New York. The GCTS was designed to implement additional remedial actions, which have been deemed necessary to meet the goals of the interim remedial measures program. The main portion of the GCTS is located on the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, two sediment ponds, duplex pump house, zero valence iron reaction tanks, engineered wetland, and an effluent pump station. At the southwest corner of the site there is an influent wetwell pump station. The GCTS located at the site is presented on Figure 2. The complete operations and maintenance manual is presented as an appendix to the Post-Closure Monitoring and Facility Maintenance Plan (EA 2004)⁵.

System Operations and Maintenance

The GCTS was operated throughout the 6-month period of 1 January – 30 June 2005. System monitoring was conducted throughout the operation period. The system operated on average at approximately 12.5 gpm during the period of 1 January – 30 June 2005. The GCTS sampling occurred bi-weekly during the operation period. Samples were collected at various locations to evaluate treatment system performance and compliance with discharge criteria. Samples were collected prior to (Sediment Pond A) and after treatment via the zero valence iron tank (Sediment Pond B), and after the engineered wetland (EFF7) bi-weekly during the GCTS operation period. The samples were analyzed in the field for total chromium and hexavalent, chromium using a HACH

^{5.} EA Engineering, P.C. and its Affiliate EA Science and Technology. 2004. Post-Closure Monitoring and Facility Maintenance Plan for the Airco Parcel, Niagara Falls, New York. Appendix A. September.

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DR4000 spectrophotometer. The HACH DR4000 spectrophotometer is EPA approved for reporting water and wastewater analyses within a detection limit of 0.006 and 0.005 mg/L for hexavalent chromium, and 0.003 mg/L for total chromium. The engineered wetland discharge samples were analyzed in the field as well as separate quarterly samples taken for offsite laboratory analysis at Life Science Laboratories, East Syracuse, New York for a full list of discharge criteria.

Field sampling results for total and hexavalent chromium can be found in Table 1, and results of the quarterly engineered wetland discharge samples can be found in Table 2. Hexavalent chromium removal rates were 99.8 percent and chromium removal rates were 99.7 percent during the 6-month monitoring period. Total suspended solids, biochemical oxygen demand, and iron analytical results were above NYSDEC discharge criteria for the first quarterly discharge samples. The total suspended solids and iron results are consistent with previous discharge samples. The second quarterly effluent discharge samples revealed that both total suspended solids and iron results had decreased significantly, indicating that the engineered wetland growth and regenerative blower are providing the additional reduction of total and dissolved iron. Thallium was detected above the discharge criteria in the second quarterly effluent discharge sample. The full set of laboratory analytical data for the GCTS discharge sampling can be found in Attachment G.

During the site visit on 26 May 2005, it was noted that the southwest corner wetwell Pump P1 was not operating. EA technicians concluded that the pump had seized and was no longer operational; Pump P1 had operated on a continuous basis for approximately 3 years. Pump P1 was replaced with an identical pump (KRT F40-160/22XG-125) on 1 June 2005 by EA technicians. The GCTS was restarted on 1 June 2005.

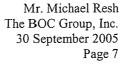
On 10 June 2005, EA technician received alarm alerts from the GCTS indicating that all alarm conditions were active. Upon arrival at the site, it was noted that all transducers and pH meters were in alarm conditions. After completing an exhaustive troubleshooting evaluation, it was determined that the analog input board and programmable logic controller modem were damaged. A severe thunder/lightning storm had passed through the Niagara Falls area earlier that morning and is suspected to be the cause of the damage. A new analog input board and modem were ordered and replaced on 21 June 2005, minor adjustments were made to the transducers and pH meter on 27-28 June 2005, and the system was restarted on 28 June 2005.

The GCTS operated continuously throughout the operating period and was not operational for a total of 23 of 181 days, with 18 of 23 days occurring in June 2005 due to an electrical storm.

GCTS Modifications (January–June 2005)

GCTS modifications performed during the operational period are as follows:

• Sediment Pond B—A 1.5-horsepower submersible pump activated by a float switch was added to the backside of the weir in Sediment Pond B to eliminate the need for a suction line pump (Pump P4B) which was experiencing difficulties siphoning water from the shallow end of Pond B. Submersible heaters were also added to the backside of the weir in Sediment Pond B for winter operations.





Attachment G summarizes monthly operation and maintenance details for the period January–June 2005, as well as provides upcoming operation and maintenance proposed projects and modification improvements.

If you have any questions regarding the results of this Bi-Annual 2005 Monitoring Event Letter Report, please do not hesitate to contact Charles McLeod at (845) 565-8100.

Sincerely,

EA ENGINEERING, P.C.

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

Vice President

EA SCIENCE AND TECHNOLOGY

Robert S. Casey

Project Scientist

CEM/cam Attachments

cc: M. Hinton (NYSDEC) M. Forcucci (NYSDOH)

Town of Niagara Falls (Town Clerk)

Project No.: 12040.99 Table 1, Page 1 of 1 September 2005

TABLE 1 SUMMARY OF BI-WEEKLY FIELD SAMPLING RESULTS 25 FEBRUARY – 21 JUNE 2005

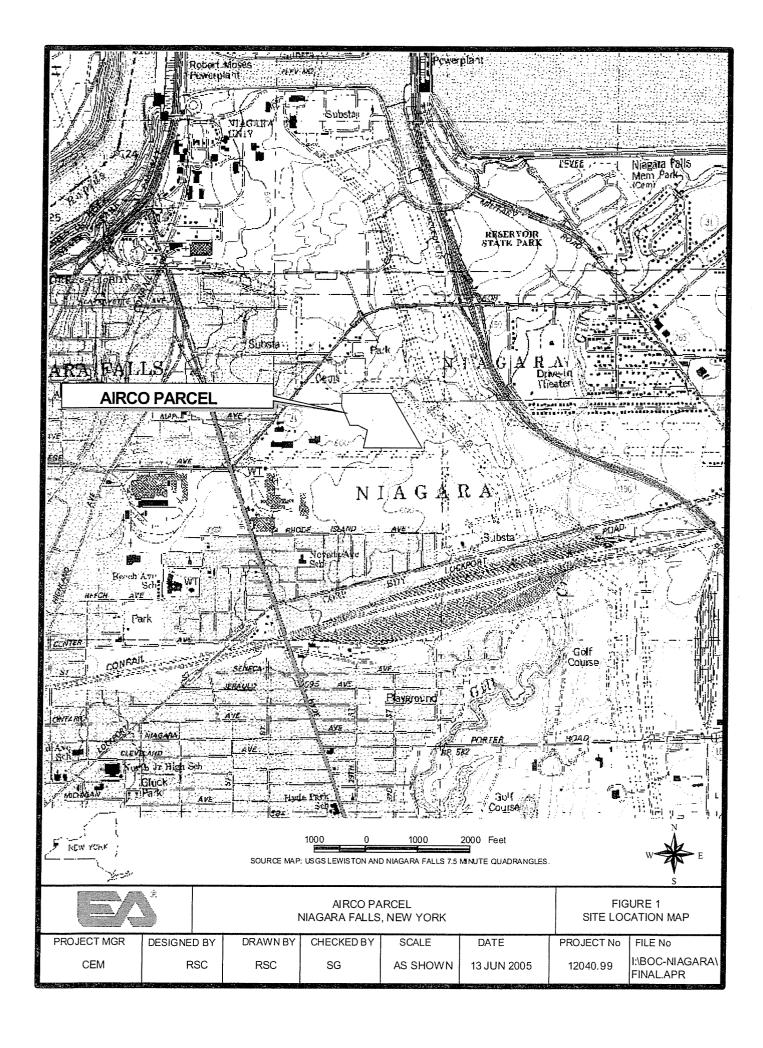
	Sedimen	t Pond A	Sedimen	t Pond B	Wetland Discharge		
	Total Hexavalent		Total	Hexavalent	Total	Hexavalent	
Date	Chromium	Chromium	Chromium	Chromium	Chromium	Chromium	
25 FEB 05	193 μg/L	146 μg/L	0 μg/L	0 μg/L	0 μg/L	0 μg/L	
1 MAR 05	214 μg/L	157 μg/L	0 μg/L	0 μg/L	0 μg/L	0 μg/L	
15 MAR 05	186 μg/L	121 μg/L	0 μg/L	0 μg/L	0 μg/L	0 μg/L	
6 APR 05	265 μg/L	232 μg/L	4 μg/L	l μg/L	2 μg/L	1 μg/L	
18 APR 05	275 μg/L	229 μg/L	6 μg/L	1 μg/L	3 μg/L	1 μg/L	
6 MAY 05	227 μg/L	196 μg/L	l μg/L	0 μg/L	1 μg/L	0 μg/L	
17 MAY 05	218 μg/L	168 μg/L	0 μg/L	0 μg/L	0 μg/L	1 μg/L	
1 JUN 05	224 μg/L	184 μg/L	1 μg/L	0 μg/L	0 μg/L	0 μg/L	
21 JUN 05	202 μg/L	177 μg/L	1 μg/L	0 μg/L	0 μg/L	0 μg/L	

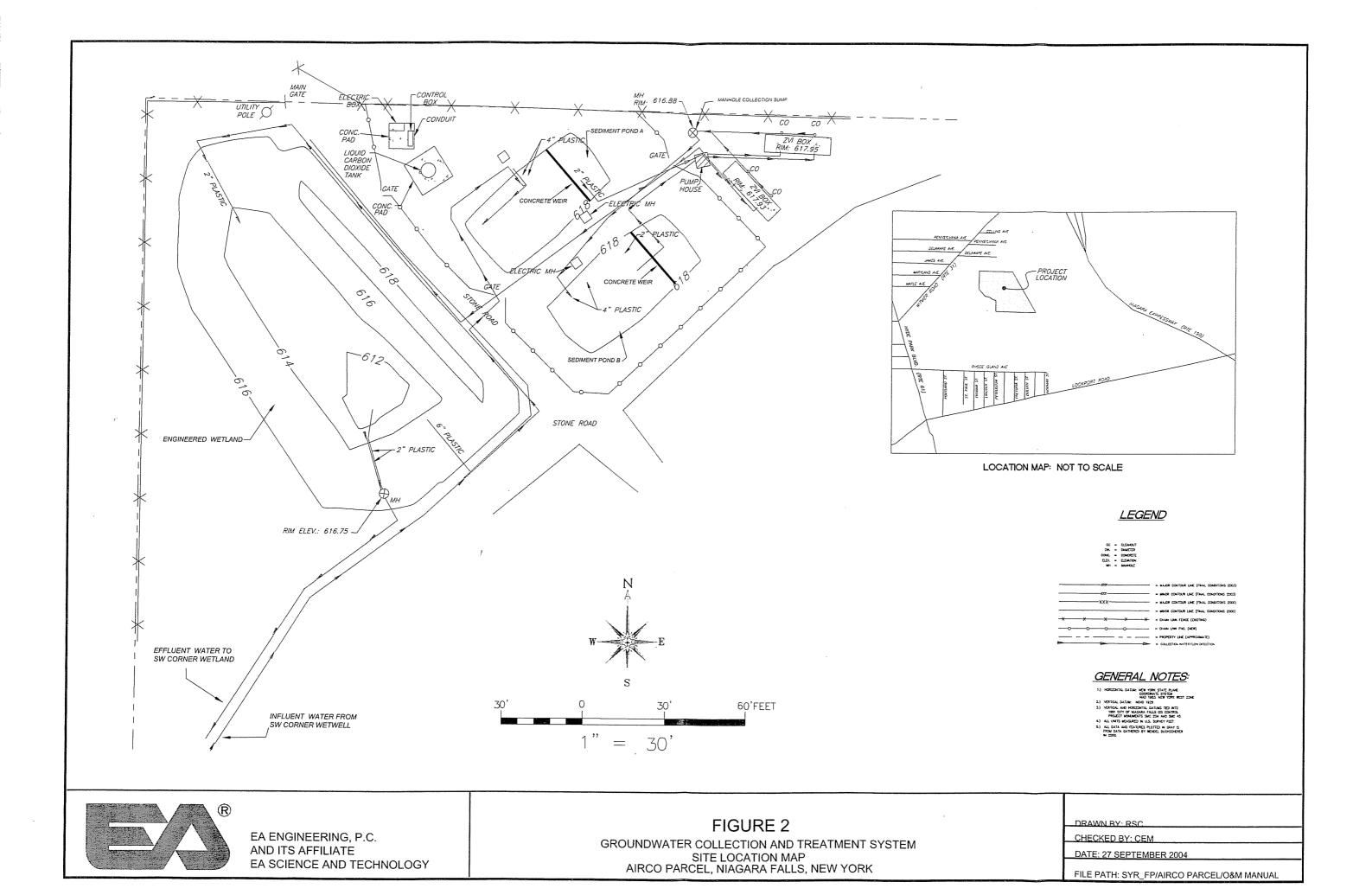
NOTE: Field samples were analyzed using a HACH DR4000 Spectrophotometer, Methods 8023 (hexavalent chromium) and 8084 (total chromium).

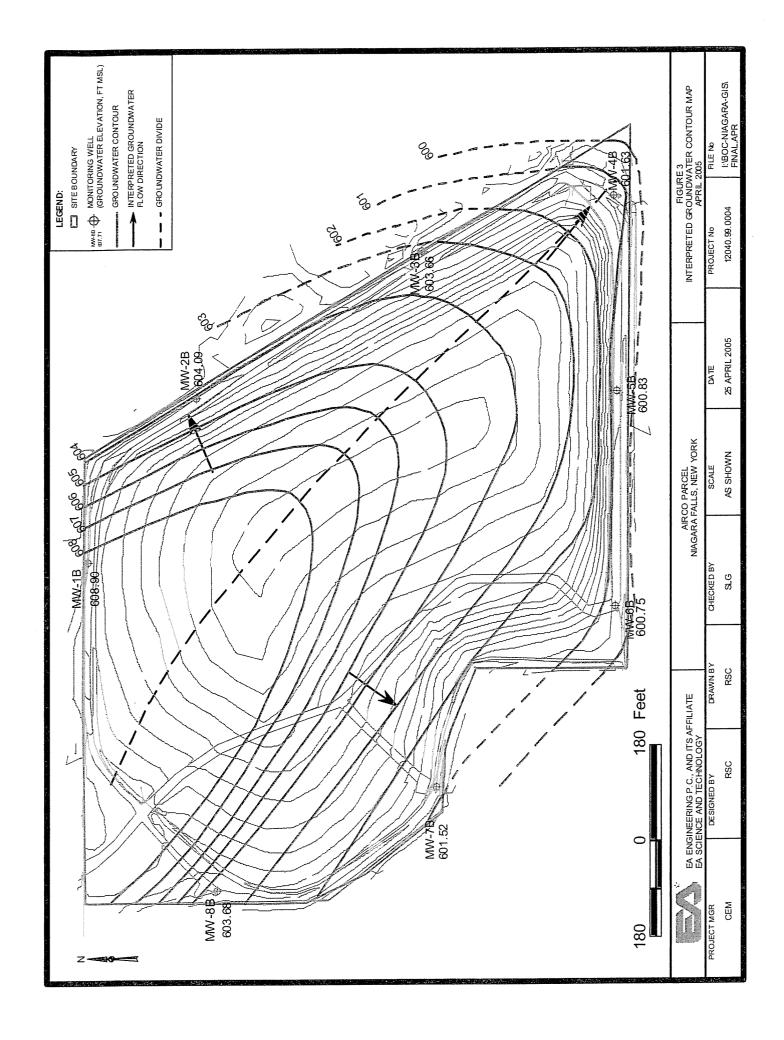
TABLE 2 SUMMARY OF QUARTERLY DISCHARGE SAMPLING 25 FEBRUARY 2005 AND 27 APRIL 2005

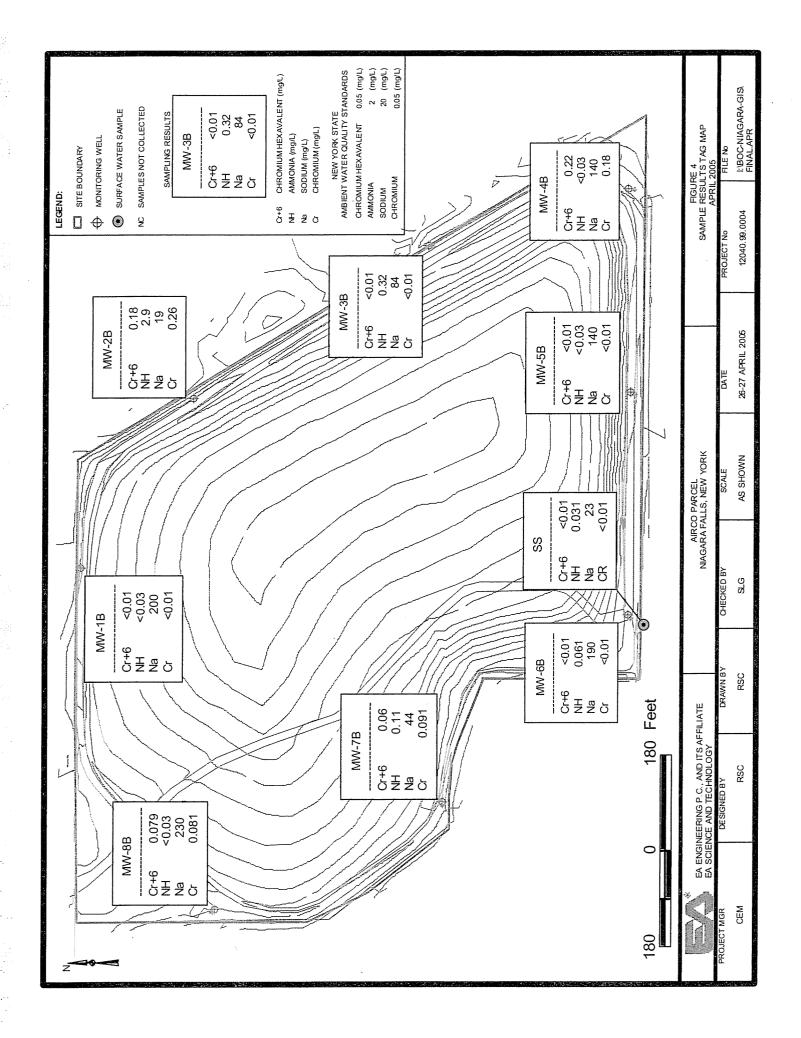
Parameter	25 February 2005	27 April 2005	New York State Department of Environmental Conservation Discharge Criteria
pН	6.4	6.5	6-8 NTU
Total suspended solids	79	<4	10 mg/L
Ammonia as N	2.0	4.3	9.2 mg/L
Total Kjeldahl nitrogen	2.8	4.7	Monitor
Biochemical oxygen demand	6.4	<4	5.0 mg/L
1,1-Dichloroethane	<1	<1	5.0 μg/L
Trichloroethane	<1	<1	5.0 μg/L
Nickel	< 0.01	< 0.01	0.07 mg/L
Copper	< 0.01	< 0.01	0.0147 mg/L
Barium	<0.2	< 0.2	2 mg/L
Total chromium	< 0.01	0.039	0.1 mg/L
Hexavalent chromium	< 0.01	< 0.01	0.011 mg/L
Iron	38	0.57	0.3 mg/L
Selenium	< 0.01	< 0.01	0.0046 mg/L
Thallium	< 0.01	0.025	0.004 mg/L
Zinc	0.036	0.022	0.115 mg/L
Nitrate as N	1.6	0.50	Monitor
Nitrite as N	0.49	0.39	Monitor
Chemical oxygen demand	15	22	40 mg/L
Total dissolved solids	780	NA	Monitor

NOTE: Values in bold indicate an excess of discharge criteria.









Attachment A

Summary of Analytical Results of Groundwater and Surface Water Samples April 2005

ATTACHMENT A SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER, AND SURFACE WATER SAMPLES COLLECTED IN APRIL 2005, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Ground Water

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

	į	WRL								
		MW1B	MW2B	MW3B	MW4B	MW5B	MW6B	MW6B	MW7B	MW8B
						1		(Dup)		
Compound/Element	AWQS		į							
Chromium	0.05	(<0.01U)	0.26	(<0.01U)	0.22	(<0.01U)	(<0.01U)	(<0.01U)	0.091	0.081
Chromium, Hexavalent	0.05	(<0.01U)	0.18	(<0.01U)	0.18	0.02	(<0.01U)	(<0.01U)	0.06	0.079
Iron	0.3	1.1	0.62	0.12	1.3	1.2	0.3	0.31	6.3	2.1
Lead	0.025	(<0.01U)	0.019	(<0.01U)						
Magnesium	35*	59	0.35	4.7	40	65	81	78	12	40
Manganese	0.3	0.76	0.024	(<0.01U)	0.025	0.058	0.13	0.13	0.13	0.14
Silicon		7.9	4.1	7.3	8.4	8.7	6.3	6	15	9.8
Sodium	20	110	35	67	99	71	58	56	63	200
Thallium	0.0005*	(<0.01U)	0.036	(<0.01U)						
Zinc	2*	0.61	0.03	0.015	0.04	0.085	0.011	(<0.01U)	0.082	0.071

Water Quality Parameters (mg/L)

Total (Unfiltered)

	-	WRL MW1B	WRL MW2B	WRL MW3B	WRL MW4B	WRL MW5B	WRL MW6B	WRL MW6B	WRL MW7B	WRL MW8B
Compound/Element	AWQS							(Dup)		
Ammonia (expressed as N)	2	(<0.03U)	2.9	0.32	(<0.03U)	(<0.03U)	0.061	(<0.03U)	0.11	(<0.03U)
Sulfate	250	200	19	84	140	140	190	180	44	230

ATTACHMENT A (CONTINUED)

Surface Water

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

		WRL SS
Compound/Element	AWQS	
Chromium		(<0.01U)
Chromium, Hexavalent	0.016	(<0.01U)
Iron	0.3	0.051
Lead		(<0.01U)
Magnesium		14
Manganese		0.018
Silicon		2.2
Sodium		4.1
Thallium	0.02	0.011
Zinc		0.019

Water Quality Parameters (mg/L)

Total (Unfiltered)

		WRL SS
Compound/Element	AWQS	
Ammonia (expressed as N)		0.031
Sulfate		23

ATTACHMENT A (CONTINUED)

QA/QC

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

		Rinse	Source
		Blank	Water
			Blank
Compound/Element	AWQS		
Chromium		(<0.01U)	(<0.01U)
Chromium, Hexavalent		(<0.01U)	(<0.01U)
Iron		(<0.05U)	(<0.05U)
Lead		0.015	(<0.01U)
Magnesium		(<1U)	(<0.01U)
Manganese		(<0.01U)	(<0.01U)
Silicon		0.018	0.013
Sodium		(<1U)	(<iu)< th=""></iu)<>
Thallium		(<0.01U)	0.011
Zinc		0.01	(<0.01U)

Water Quality Parameters (mg/L)

Total (Unfiltered)

	* Law of the continues	Rinse Blank	Source Water Blank
Compound/Element	AWQS		
Ammonia (expressed as N)		(<0.03U)	
Sulfate		2	1.7

ATTACHMENT A (CONTINUED)

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.

-- = Indicates no standard or guidance value exists.

U = Not detected. Sample quantitation limits shown as (<__U).

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

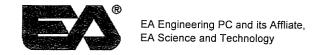
Ammonia (expressed as Nitrogen) = EPA 350.2 Phenolics = EPA 420.2 Sulfate = EPA 375.3

Attachment B

Groundwater Sampling
Purge Forms and Field Notes
April 2005

GROUND-WATER SAMPLING PURGE FORM

				į Or	GE FOR	CIVI				
Well I.D.:			EA Persoi	nnel:		Client:				
	AP-MW1B			R.CASEY		BOC GASES				
Location:		······	Well Cond			Weather:				
	NIAGARA	FALLS		LOCKED			CLEAR, MID 40)'s		
Sounding	Method:		Gauge Da	te:		Measurement	Ref:			
	WLI			4/25/2005			TOC			
Stick Up/D	own (ft):		Gauge Tin	ne:		Well Diameter	(in):	· · · · · · · · · · · · · · · · · · ·		
	UP						4"			
Purge Dat	e:	4/26/2005	5		Purge Tir	ne:	1200			
Purge Met	hod:	2" SUB/LO	W FLOW	engasanas and an	Field Tec	hnician:	R.CASEY			
				We	il Volum	P				
A. Well De	nth (ft):		D. Well Vo		ii v Olaili	Depth/Height of	of Top of PVC:			
A. Well be	pur (it).		D. Well Vo	name (it).		Departiegne				
B. Depth to	o Water (ft):		E. Well Volume (gal) C*D): Pump Type:				Pump Type:			
•	8.87			GRUNDFOS R						
C. Liquid [Depth (ft) (A	-B):	F. Five We	ell Volumes (g	al) (E3):	Pump Designation:				
				Water Qu	ality Para	ameters				
Time	DTW	Volume	Rate	рН	ORP	Temperature	Conductivity	DO	Turbidity	
(hrs)	(ft btoc)	(liters)	(Lpm)	(pH units)	(mV)	(oC)	(uS/cm)	(ug/L)	(ntu)	
1207	8.59	0	0.25	7.40	138	12.03	2.01	5.98	212	
1211	10.29	1	0.25	7.12	63	12.17	2.00	2.14	302	
1215	10.31	2	0.25	7.00	44	12.75	2.00	0.14	142	
1219	10.31	3	0.25	7.00	35	13.12	2.02	0.00	94.5	
1223	10.31	4	0.25	7.00	36	13.19	2.02	0.00	65.4	
1227	10.31	5	0.25	6.99	32	13.20	2.01	0.00	50.0	
1231	10.31	6	0.25	6.98	34	13.24	2.00	0.00	43.1	
	-									
	tity of Wate	r Removed	(gal):	~1.5 gal	•	Sampling Time	-	1235		
Samplers: Sampling [Date:			R.CASEY 26-Apr-05		Split Sample W Sample Type:	/ith: - -	GRAB		
COMMENT	S AND OBS	FRVATION	ıs.							



GROUND-WATER SAMPLING PURGE FORM

				101	RGE FOI	. LLVZ				
Well I.D.:			EA Perso	nnel:		Client:			The House of the H	
	AP-MW2B			R.CASEY		BOC GASES				
Location:			Well Cond	dition:		Weather:			······································	
	NIAGARA	FALLS		LOCKED			CLEAR, MID 40)'s		
Sounding			Gauge Da	te:		Measurement	Ref:		***************************************	
	WLI			4/25/2005			TOC			
Stick Up/I			Gauge Tir	ne:		Well Diameter	(in):		-	
	UP						4"			
Purge Dat	te:	4/26/2005	5		Purge Tir	ne:	1030			
Purge Met	thod:	Peristaltic/	Low Flow		Field Tec	hnician:	R.CASEY			
					II Volum					
A. Well Depth (ft): D. Well Volume (ft):						Depth/Height	of Top of PVC:			
B. Depth to Water (ft): 11.79 E. Well Volume (gal) C*D):					O):	Pump Type: Peristaltic Geo-pump				
C. Liquid I	Depth (ft) (A	-B):	F. Five We	F. Five Well Volumes (gal) (E3):			Pump Designation:			
				Motor Ou	olity Doz	motore				
Time	DTW	Volume	Rate	Water Qu	,					
(hrs)	(ft btoc)	(liters)	(Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO	Turbidity	
1035	1.79	0	0.25	12.25	-94	11.33		(ug/L)	(ntu)	
1039	14.82	1	0.25	12.25	-108	11.60	3.56 3.75	5.53 9.54	14.8	
1043	16.31	2	0.25	12.42	-99	11.43	3.78	5.34	24.3 37.1	
1047	16.91	3	0.25	12.43	-96	11.11	3.79	9.94	36.0	
1051	18.02	4	0.25	12.43	-90	11.2	3.78	4.40	34.0	
1054	18.71	5	0.25	12.44	-97	11.22	3.77	9.15	38.0	
1057	18.73	6	0.25	12.44	-90	11.24	3.79	9.15	35.0	
otal Quan	itity of Water	r Removed	(gal):	~1.5 gal.		Sampling Time		1100		
						Split Sample With:				
amplers:										
amplers: ampling [Date:			26-Apr-05		Sample Type:	_	GRAB		

~12.5 to 14 feet.

GROUND-WATER SAMPLING. PURGE FORM

				PUN	GE FUR	MAT.				
Well I.D.:			EA Persor	nnel:		Client:				
	AP-MW3B			R.CASEY		BOC GASES				
Location:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Well Cond	lition:	***************************************	Weather:				
	NIAGARA	FALLS		LOCKED			CLEAR, MID 40)'s		
Sounding	Method:		Gauge Dat	te:		Measurement	Ref:			
	WLI			4/25/2005			TOC			
Stick Up/D	own (ft):		Gauge Tin	ne:		Well Diameter	(in):			
	UP						4"			
Purge Date: 4/26/2005 Purge Time: 12							1240			
Purge Met	hod:	2" SUB/LO	W FLOW		Field Tecl	nnician:	R.CASEY		***************************************	
					<u> </u>					
				We	ell Volum					
A. Well De	II Depth (ft): D. Well Volume (ft):					Depth/Height	of Top of PVC:			
B. Depth to	B. Depth to Water (ft): E. Well Volume (gal) C*D): 7.56					Pump Type:	GRUNDFOS RE	EDI-FLO 2		
C. Liquid [Depth (ft) (A	-B):	F. Five We	ll Volumes (g	al) (E3):	: Pump Designation:				
<u> </u>						1	4			
				Water Qu	ality Para	meters				
Time	DTW	Volume	Rate	рН	ORP	Temperature	Conductivity	DO	Turbidity	
(hrs)	(ft btoc)	(liters)	(Lpm)	(pH units)	(mV)	(oC)	(uS/cm)	(ug/L)	(ntu)	
1247	6.96	0	0.25	9.91	11	11.65	0.695	5.47	286	
1251	10.53	1	0.25	10.14	6	11.29	0.675	2.69	124	
1255	11.41	2	0.25	10.08	-2	13.21	0.650	2.12	63.3	
1259	12.42	3	0.25	9.97	-49	13.46	0.629	1.49	41.4	
1303	12.45	4	0.25	9.86	-83	14.18	0.600	0.84	31.7	
1307	12.45	5	0.25	9.60	-93	14.45	0.589	0.40	20.3	
1311	12.45	6	0.25	9.50	-93	14.52	0.584	0.52	18.0	
1315	12.45	7	0.25	9.43	-93	14.60	0.583	0.48	18.4	
Total Quan	tity of Wate	r Removed	i (gal):	~2 gal	_	Sampling Time) :	1325		
Samplers:	-			R.CASEY	_	Split Sample V				
Sampling I	Date:			26-Apr-05	-	Sample Type:	- -	GRAB		
		EDVATION	10							

GROUND-WATER SAMPLING PURGE FORM

				PUR	GE FOR	LIVI.						
Well I.D.:			EA Persoi	nnel:		Client:						
	AP-MW4B			R.CASEY			BOC GASES					
Location:			Well Cond	lition:		Weather:		- 				
	NIAGARA	FALLS		LOCKED			CLEAR, MID 40)'s				
Sounding	Method:		Gauge Da	te:		Measurement						
	WLI			4/25/2005			TOC					
Stick Up/D	own (ft):		Gauge Tin	ne:		Well Diameter (in):						
	UP				4"							
Purge Date		4/26/2005	5	 	Purge Tin	ne:						
Purge Met	Purge Method: HAND BAIL				Field Technician: R.CASEY							
					li Volum							
A. Well De	pth (ft):		D. Well Vo	lume (ft):		Depth/Height of	of Top of PVC:					
B. Depth to	B. Depth to Water (ft): E. Well Volu			lume (gal) C*D)):	Pump Type:						
	5.05					DEDICATED BAILER						
C. Liquid D	epth (ft) (A	-B):	F. Five We	II Volumes (ga	il) (E3):	Pump Designa	ump Designation:					
				W-4 0	-1:4 - D							
				Water Qua								
Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)			
INITIAL	5.05	0		6.01	197	9.50	1.11	8.49	4.50			
ENDING		8		7.81	133	9.61	0.967	6.08	55.1			
							-					
	tity of Wate	r Removed	(gal):	~2 gal		Sampling Time	-	950				
Samplers:	_ 4			R.CASEY		Split Sample With:						
Sampling Date: 27-Apr-0			27-Apr-05		Sample Type:	-	GRAB	·····				
COMMENTS	OMMENTS AND OBSERVATIONS:						<u></u>					

GROUND-WATER SAMPLING PURGE FORM

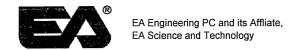
			EA Persor	inel:		Client:					
	AP-MW5B			R.CASEY			BOC GASES				
Location:			Well Cond			Weather:					
	NIAGARA	FALLS		LOCKED			CLEAR, MID 40	's			
Sounding			Gauge Dat	i e e e e e e e e e e e e e e e e e e e							
	WLI			4/25/2005		TOC					
Stick Up/D			Gauge Tin	ie:		Well Diameter	(in): 4"				
	UP						4				
Purge Date		4/26/2005			Purge Tin	20:					
Purge Dau	3.	4/20/2000	1		ruige iii	iie.					
Purge Met	hod:	HAND BAI	L		Field Tec	hnician:	R.CASEY				
				We	li Volum	е					
A. Well De	pth (ft):		D. Well Vo	lume (ft):		Depth/Height of	of Top of PVC:				
B. Depth to	Water (ft):		E. Well Vo	lume (gal) C*E)):	Pump Type:					
	4.65		<u> </u>		DEDICATED BAILER lumes (gal) (E3): Pump Designation:						
C. Liquid E	epth (ft) (A	·B):	F. Five We	II Volumes (ga	(gal) (E3): Pump Designation:						
				Water Qua	ality Par	motors					
T:	DTW	Volume	Rate	pH	ORP						
Time (hrs)	(ft btoc)	(liters)	(Lpm)	μπ (pH units)	(mV)	Temperature Conductivity DO Turbic (oC) (uS/cm) (ug/L) (ntu					
		(111010)	<u> (=p)</u>		171	9.76	1.20	4.73	0		
11/31 1 1 14/1						0			25.0		
INITIAL ENDING	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
ENDING	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
	4.65	~7		7.48	155	10.17	1.20	10.11	25.9		
ENDING				7.48	155				25.9		
ENDING Total Quar	tity of Wate		(gal):	~2 gal	155	Sampling Time):	10.11	25.9		
ENDING Total Quar Samplers:	tity of Wate		(gal):	~2 gal R.CASEY	155	Sampling Time Split Sample V):	1005	25.9		
ENDING Total Quar	tity of Wate		(gal):	~2 gal	155	Sampling Time):		25.9		
Fotal Quar Samplers:	tity of Wate	r Removed		~2 gal R.CASEY	155	Sampling Time Split Sample V):	1005	20.9		

GROUND-WATER SAMPLING PURGE FORM

Well I.D.:			EA Persor	nnel:		Client:					
	AP-MW6B			R.CASEY			BOC GASES				
Location:			Well Cond	ition:		Weather:					
	NIAGARA I	FALLS		LOCKED			CLEAR, MID 40)'s			
Sounding	Method:		Gauge Da	te:	Measurement Ref:						
	WLI			4/25/2005	TOC						
Stick Up/E	own (ft):		Gauge Tin	ne:		Well Diameter	(in):				
	UP						4"				
Purge Dat	e:	4/26/2005			Purge Tin	ne:	1325				
		0110110110			po 1 1 mm	· · · · · · · · · · · · · · · · · · ·	DOACEV				
Purge Met	:hod:	2" SUB/LO	W FLOW		Field Tec	nnician:	R.CASEY				
				18/0	ll Volum	~					
			I 10.		ıı volulli		- FT FDV0				
A. Well De	pth (ft):		D. Well Vo	iume (ft):		Depth/Height o	or lop of PVC:				
B. Depth to Water (ft): E. Well Volume (gal):	Pump Type:					
2.72						GRUNDFOS REDI-FLO 2					
C. Liquid Depth (ft) (A-B): F. Five Well Volumes					1) (===)	·	41				
C. Liquid I	Depth (ft) (A	-B):	F. Five We	il Volumes (ga	ii) (E3):	Pump Designa	tuon:				
C. Liquid (Depth (ft) (A	-B):	F. Five We				uon:				
C. Liquid (Depth (ft) (A	-B):	F. Five We	Water Qua	ality Para	ameters					
C. Liquid I	DTW	Volume	F. Five We	Water Qua	ality Para	ameters Temperature	Conductivity	DO	Turbidity		
		Volume (liters)	Rate (Lpm)	Water Qua	ality Para	ameters Temperature (oC)	Conductivity (uS/cm)	(ug/L)	(ntu)		
Time (hrs)	DTW (ft btoc)	Volume	Rate (Lpm)	Water Qua	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	(ug/L) 7.22	(ntu) 91.3		
Time (hrs) 1334 1338	DTW (ft btoc) 1.81 5.65	Volume (liters)	Rate (Lpm) 0.25 0.25	Water Qua pH (pH units) 8.20 7.48	ORP (mV) 6 -13	Temperature (oC) 13.03 12.49	Conductivity (uS/cm) 1.33 1.37	(ug/L) 7.22 0	(ntu) 91.3 273		
Time (hrs) 1334 1338 1342	DTW (ft btoc) 1.81 5.65 8.89	Volume (liters) 0 1 2	Rate (Lpm) 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34	ORP (mV) 6 -13 -21	Temperature (oC) 13.03 12.49 12.45	Conductivity (uS/cm) 1.33 1.37 1.35	7.22 0 0	(ntu) 91.3 273 78.0		
Time (hrs) 1334 1338 1342 1346	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3	Rate (Lpm) 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34	ORP (mV) 6 -13 -21	Temperature (oC) 13.03 12.49 12.45	Conductivity (uS/cm) 1.33 1.37 1.35	7.22 0 0	(ntu) 91.3 273 78.0		
Time (hrs) 1334 1338 1342 1346	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3	Rate (Lpm) 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27	Conductivity (uS/cm) 1.33 1.37 1.35 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27 13.84	Conductivity (uS/cm) 1.33 1.37 1.35 1.37 1.37	(ug/L) 7.22 0 0 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350 1354	DTW (ft btoc) 1.81 5.65 8.89 9.69	Volume (liters) 0 1 2 3 4 5	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27 13.84 Sampling Time	Conductivity (uS/cm) 1.33 1.37 1.35 1.37 1.37	7.22 0 0 0	(ntu) 91.3 273 78.0 27.3		
Time (hrs) 1334 1338 1342 1346 1350 1354	DTW (ft btoc) 1.81 5.65 8.89 9.69 9.69	Volume (liters) 0 1 2 3 4 5	Rate (Lpm) 0.25 0.25 0.25 0.25 0.25 0.25	Water Qua pH (pH units) 8.20 7.48 7.34 7.28 7.27	ORP (mV) 6 -13 -21 -21	Temperature (oC) 13.03 12.49 12.45 13.27 13.84	Conductivity (uS/cm) 1.33 1.37 1.35 1.37 1.37	(ug/L) 7.22 0 0 0 0 0	(ntu) 91.3 273 78.0 27.3		

GROUND-WATER SAMPLING PURGE FORM

					GE FOR					
Well I.D.:			EA Persor	nnel:		Client:				
	AP-MW7B			R.CASEY			BOC GASES			
Location:			Well Cond			Weather:	0.515.115.46			
	NIAGARA I	FALLS		LOCKED			CLEAR, MID 40	l'S		
Sounding			Gauge Dat							
00.1.11.70	WLI		Gauge Tin	4/25/2005	TOC Well Diameter (in):					
Stick Up/D	own (π): UP		Gauge	1e:		Well Diameter	(m): 4"			
Purge Date):	4/26/2005	5	:	Purge Tin	ne:				
Purge Meti	Purge Method: HAND BAIL				Field Tecl	nnician:	R.CASEY			
				We	II Volum	8				
A. Well De	oth (ft):		D. Well Vo	lume (ft):		Depth/Height o	of Top of PVC:			
B. Depth to	Water (ft):		E. Well Vo	lume (gal) C*E)):	Pump Type:				
	7.96			(5)			DEDICATED BAILER			
C. Liquid D	epth (ft) (A	·B):	F. Five We	II Volumes (ga	lumes (gal) (E3): Pump Designation:					
				Water Qua	ality Para	ımeters				
Time	DTW	Volume	Rate	рН	ORP	Temperature	Conductivity	DO	Turbidity	
(hrs)	(ft btoc)	(liters)	(Lpm)	(pH units)	(mV)	(oC)	(uS/cm)	(ug/L)	(ntu)	
INITIAL	7.96			8.07	137	9.98	0.478	6.09	11.5	
ENDING		~8		8.46	115	10.49	0.460	5.03	220	
		•								
			<u> </u>						101 1000000	
	tity of Wate	r Removed	i (gal):	~2.5 gal	•	Sampling Time	•	1015		
Samplers:				R.CASEY		Split Sample With:				
Sampling D	Date:			27-Apr-05	•	Sample Type:	-	GRAB		
COMMENT	S AND OBS	ERVATION	IS:							



GROUND-WATER SAMPLING PURGE FORM

<u> </u>			TEAR			Torran						
Well I.D.:	A D. MANAGOD		EA Persor			Client:	BOC GASES					
Location:	AP-MW8B	******	Well Cond	R.CASEY		Weather:	BUC GASES					
Location.	NIAGARA	FALLS	Wen Cond	LOCKED		Weather.	CLEAR, MID 40)'s				
Sounding			Gauge Da			Measurement						
ooug	WLI		Journal	4/25/2005	4/25/2005 TOC							
Stick Up/E	own (ft):	······································	Gauge Tin	ne:		Well Diameter	(in):					
	UP						4"					
					Tr		4445					
Purge Dat	e:	4/26/2005	5		Purge Time: 1115							
Purge Met	Purge Method: 2" SUB/LOW FLOW				Field Tec	hnician:	R.CASEY					
					1							
				We	ll Volum							
A. Well De	pth (ft):		D. Well Vo	lume (ft):		Depth/Height o	of Top of PVC:					
B. Depth to Water (ft): E. Well Volum				lume (gal) C*E): Pump Type: GRUNDFOS REDI-FLO 2							
C. Liquid I	Depth (ft) (A	·B):	F. Five We	ll Volumes (ga	es (gal) (E3): Pump Designation:							
				Water Qu								
Time	DTW	Volume	Rate	pН	ORP	Temperature	Conductivity	DO	Turbidity			
(hrs)	(ft btoc)	(liters)	(Lpm)	(pH units)	(mV)	(oC)	(uS/cm)	(ug/L)	(ntu)			
1120	7.94	0	0.25	8.77	110	10.99	1.54	3.03	615			
1124	4.69	1	0.25	8.23	99	11.25	1.53	0.19	525			
1128	5.61	2	0.25	7.95	89	11.85	1.53 1.52	0.17 0	403 171			
1132	6.83	<u>3</u>	0.25	7.80 7.69	78 72	12.39 11.35	1.53	0	112			
1136 1140	8.89 8.87	5	0.25 0.25	7.61	72	12.96	1.49	0	103			
1144	8.95	<u>5</u>	0.25	7.54	66	13.07	1.51	0	102			
1148	8.99	7	0.25	7.51	64	13.10	1.48	0	110			
					<u> </u>	1						
Total Quar	itity of Wate	r Removed	l (gal):	~2 gal		Sampling Time	:	1155				
Samplers:	•		,	R.CASEY	-	Split Sample W	/ith:					
Sampling l	Date:			26-Apr-05	-	Sample Type:		GRAB				
									-			
COMMENT	S AND OBS	ERVATION	NS:									

Attachment C

Chain-of-Custody Records April 2005



Life Science Laboratories, Inc. CHAIN OF CUSTODY RECORD LSL North Lab

0506140 EAEng

LSL Finger Lakes Lak

16 N. Main St.

Phone: (585)728-332

Wayland, N.Y. 14572

Waddington, N.Y. 13694

E. Syracuse, N.Y. 13057

5854 Butternut Drive LSL Central Lab

Phone: (315)388-4476

131 St. Lawrence Ave.

(315)388-4061

Fax:

(315)445-1301 Phone: (315)445-1105

Fax:

Turnaround Time Normal Pre-Authorized 14 DAY Next Day* 2-Day* T-Day* may apply	eeueu or opecial instructions; ization or P.O. #	/ ユンザン・イター公式) oject Number:	ا کعی ا Analyses Preserv	Analyses Analyses Atta Menacc 14 Sou	Analyses Analyses Analyses Check Atta Menres O	Analyses Analyses Analyses Check Attack Soy Soy O Coneck Conec	Analyses Analyses OH3/METALS/ OO ON ON ON ON ON ON ON ON O	Analyses Analyses Analyses Check /* Soy METALE O O O O O O O O O O O O O O O O O O	Analyses Analyses Analyses Check Analyses Check	Analyses Analyses Analyses Check Soy Metrecs O O O O O O O O O O O O O O O O O O	Ect Number: Analyses Analyses Tr Phewolf NH 3 / METALS FL R. Corte / 1 Soy NH 3 or this smile Nu 4/24 Nu 4/24	For Rumber: Analyses Analyses Preserv Corte/1 Soy Nu 4/24 Nu
	Zip: (元) イスカラフ Authorization or P.O.#	Preserv Containers Matrix Added # size/type	6w if 1 moor.				72/			Custody Transfers	When Coulden	Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY*** Reg COC
Address: ROBERT CASH / SANY: FIX ENGINEERING	Street: <u>く73/ Cert AMPR RD</u> City/State: <u>E. SRAWE</u> NJ Phone: (315) L31 — 46i D Email: Client Project ID/Client Site ID	Sample Sample Date Time grab/c	AP-MW4B-OLOS DARDE BAD COPLE	AP-MW78-0405 1015		M-SWB-0405 J 1135 V	48-21-0405			LSL use only:	Sampled By: K. Relinquished By: Relinquished By: Relinquished By: Relinquished By:	ain of Custody



Life Science Laboratories, Inc. CHAIN OF CUSTODY RECORD

# 1.	*Additional Charges	<i>_</i>		·	š	00 ABCO	200	903		500	9000	7		Date Time		5 08:17 IN	7	
USL Finger Law	d Time Pre-Authorized Next Day* 2-Day * 7-Day*	Date Needed or Special Instructions: Authorization or P.O. #	120-10, 99 (200) Number:	Analyses	T. Phenols, Metals 12th 501, 11/1						 ->				7.	b By: ↑1∪ 04-27-0	Λ	nples in a timely manner IN PEN ON
ļ	Normal Pre-Au 14 DAY Next D	Date Neede	LSL Project Number:	Containers size/tvoe							>			Ustody Iransfers	Received By:	Rec'd for Lab By:	Received Intact:	o process sam
LSL North Lab 131 St. Lawrence Ave. Waddington, N.Y. 13694 Phone: (315)388-4476 Fax: (315)388-4061		(3657 (35)		Preserv C Added #	4						->			Custody			7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	a out in order t Reg COC
LSL North Lab 131 St Lawren Waddington, N Phone: (315)36 Fax: (315)3		Zip: (325 Fax: (35)#3	`	Matrix	4M				>	Š	/wb			M			MIST be fille	19111 an 100m
rive . 13057 -1105 5-1301	SANAM		MACE	ole Type e grab/comp	5 GRAD		10	10	\^	5	>		-	Sampled By:	Relinquished By:	Relinquished By: Shipment Method:	ustody Record	noon family
LSL Central Lab 5854 Butternut Drive E. Syracuse, N.Y. 13057 Phone: (315)445-1105 Fax: (315)445-1301	1/540T G	NSE NY	AIRED	Sample Sample Date Time	26APROS (235	8	1325	1355/	(F)	(多)	\ >			Samp	Relinc	is C-O-C Shipm	this Chain of C	
	ESS: ROBET CASEN / SUTT GRAHAM EA ENGINEERING	6731 COLLAMPE EAST STEAMSE 315) 6431 - 4610	D/Client Site ID	Client's Sample Identifications	8-0405	8-0405	B-0405	18-0455	38- O405	0405	0402					Containers this C-O-C	*** All areas of	
	Addre	Street: City/State: E4 Phone: (3/8 Email:	ا ما	Client's Identifi	AP-MWIB-0405	AP - MW28-0405	AP - MW3R - 0405	AP - MW6B - 0405	AP - MWBB - 0405	M-55-0405	P- NP-045		.SL use only:	,				

Life Science Laboratories, Inc.

LSL)5854 Butternut Drive

Chain of Custody Record

Preserv. 000 A 00 b DE 067 AB 04-2\$-05 08 50 IN 006 B 2000 Time Date BOD, TSS, pH, NO3, NO2, Cr+6 Ba,Cr,Cu,Fe,Ni,Ni,Se,TI,Zn Client's Project I.D.: 12040.99.6001 YTKN,NH3,COD Analyses 0506140 EAEng Phenols Trip Blank 601/602 Witmer Rd. Landfill Cllent's Site I.D.: **Custody Transfers** Mad My Received for Lab By: NU LSL Project #: # size/type Containers Liter(g) 500 ml 500 ml 500 ml 40 ml 40 mi Received By: Received By: ~ Contact Person: Added Preserv. H2S04 HNO₃ H2S04 None HCL HCL Scott Graham grab comp. Matrix Perde 1 9-28 ĕ Shipment Methods UPS Sampled By: RUKEY Type Relinquished By: Relinquished By: RA. 15 Sam project as Avra Telefax # (315) 445-1301 Phone # 431-4610 Telefax # 431-4280 Sample Sample Time 214PROS 1050 Authorization: Date Notes and Hazard identifications:
Two sufficie pies to the for off, culled scutt Grehm, he will have flated Crocy cell ne back no 4/27 AP-6FF7-0465 EA Engineering Science & Tech. Client's Sample Identifications East Syracuse, NY 13057 Litary. E. Syracuse, NY 13057 6731 Collamer Rd. Scott Graham Phone # (315) 445-1105 LSL Sample Number Address: Client:

Attachment D

Laboratory Analytical Results April 2005



Scott Graham / Robert Casey EA Engineering, Science and Technology 6731 Collamer Road East Syracuse, NY 13057-9759



Phone: (315) 431-4610

FAX: (315) 431-4280

Authorization: PO# 12040.99 0001

Laboratory Analysis Report For

EA Engineering, Science and Technology

Client Project ID:

Airco Parcel

LSL Project ID: **0506049**

Receive Date/Time: 04/27/05 8:17

Project Received by: MW

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report. but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if

Life Science Laboratories, Inc.

LSL Central Lab 5854 Butternut Drive East Syracuse, NY 13057 Tel. (315) 445-1105 Fax (315) 445-1301 NYS DOH ELAP #10248 PA DEP #68-2556

LSL North Lab 131 St. Lawrence Avenue Waddington, NY 13694 Tel. (315) 388-4476 Fax (315) 388-4061 NYS DOH ELAP #10900 NYS DOH ELAP #11667

LSL Finger Lakes Lab 16 N. Main St., PO Box 424 Wayland, NY 14572 Tel. (585) 728-3320 Fax (585) 728-2711

LSL Southern Tier Lab 30 East Main Street Cuba, NY 14727 Tel. (585) 968-2640 Fax (585) 968-0906

LSL MidLakes Lab 699 South Main Street Canandaigua, NY 14424 Tel. (585) 396-0270 Fax (585) 396-0377 NYS DOH ELAP #10760 NYS DOH ELAP #11369

This report was reviewed by:

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

East Syracuse, NY

EA Engineering, Science and Technology

Sample ID: AP-MW1B-0405

LSL Sample ID:

0506049-001

Location:

Airco Parcel

Sampled:

04/26/05 12:35

Sampled By: Client

Sample Matrix: NPW

A	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	e Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	<0.03	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	< 0.05	mg/l	5/3/05	5/19/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	<0.01	mg/l	4/28/05	4/29/05	DP
	Chromium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Iron	1.1	mg/l	4/28/05	4/29/05	DP
	Lead	< 0.01	mg/l	4/28/05	4/29/05	DP
	Magnesium	59	mg/l	4/28/05	4/29/05	DP
	Manganese	0.76	mg/l	4/28/05	4/29/05	DP
	Selenium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Silicon	7.9	mg/l	4/28/05	4/29/05	DP
	Sodium	110	mg/l	4/28/05	4/29/05	DP
	Thallium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Zine	0.61	mg/l	4/28/05	4/29/05	DP
(1)	EPA Method 300.0 A					
	Sulfate	200	mg/l		4/28/05	AMW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	<0.01	mg/l		4/27/05 10:5	2 MJK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:

AP-MW2B-0405

LSL Sample ID:

0506049-002

Location:

Airco Parcel

Sampled:

04/26/05 11:00

Sampled By: Client

Sample Matrix: NPW

Analytical I	Method			Prep	Analysis	Analyst
Ana	llyte	Result	Units	Date	Date & Time	•
(1) EPA 350	0.1 Ammonia					
Amn	nonia as N	2.9	mg/l		5/9/05	DRB
(1) EPA 420	0.1 Recoverable Phenolics ML					
Phen	olics, Total Recoverable	< 0.05	mg/l	5/3/05	5/19/05	TER
(1) EPA 601	0 Total Metals					
Cadn	nium	<0.01	mg/l	4/28/05	4/29/05	DP
Chro	mium	0.26	mg/l	4/28/05	4/29/05	DP
Iron		0.62	mg/l	4/28/05	4/29/05	DP
Lead		< 0.01	mg/l	4/28/05	4/29/05	DP
Magn	nesium	0.35	mg/l	4/28/05	4/29/05	DP
Mang	ganese	0.024	mg/l	4/28/05	4/29/05	DP
Seleni	ium	< 0.01	mg/l	4/28/05	4/29/05	DP
Silico	n	4.1	mg/l	4/28/05	4/29/05	DP
Sodiu	m	35	mg/l	4/28/05	4/29/05	DP
Thalli	ium	0.036	mg/I	4/28/05	4/29/05	DP
Zinc		0.030	mg/l	4/28/05	4/29/05	DP
(1) EPA Metl	hod 300.0 A					
Sulfat	e	19	mg/l		4/28/05	AMW
(1) SM 18 35	00Cr-D Hexavalent Chromium					
Chron	nium, Hexavalent	0.18	mg/l		4/27/05 10:5	6 MJK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-MW3B-0405

LSL Sample ID:

0506049-003

Location:

Airco Parcel

Sampled:

04/26/05 13:25

Sampled By: Client

Sample Matrix: NPW

A	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	0.32	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	<0.05	mg/l	5/3/05	5/19/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Chromium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Iron	0.12	mg/l	4/28/05	4/29/05	DP
	Lead	< 0.01	mg/l	4/28/05	4/29/05	DP
	Magnesium	4.7	mg/l	4/28/05	4/29/05	DP
	Manganese	< 0.01	mg/l	4/28/05	4/29/05	DP
	Selenium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Silicon	7.3	mg/l	4/28/05	4/29/05	DP
	Sodium	67	mg/l	4/28/05	4/29/05	DP
	Thallium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Zinc	0.015	mg/l	4/28/05	4/29/05	DP
(I)	EPA Method 300.0 A					
	Sulfate	84	mg/l		4/28/05	AMW
1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	< 0.01	mg/l		4/27/05 10:57	МЈК

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:

AP-MW6B-0405

LSL Sample ID:

0506049-004

Location:

Airco Parcel

Sampled:

04/26/05 13:55

Sampl

Sampled By: Client

Aı	nalytical Method			Prep	Analys	is	Analyst
	Analyte	Result	Units	Date	Date & T		Initials
(1)	EPA 350.1 Ammonia						
	Ammonia as N	0.061	mg/l		5/9/05		DRB
(1)	EPA 420.1 Recoverable Phenolics ML						
	Phenolics, Total Recoverable	< 0.05	mg/l	5/3/05	5/19/05		TER
<i>(1)</i>	EPA 6010 Total Metals						
	Cadmium	< 0.01	mg/l	4/28/05	4/29/05		DP
	Chromium	<0.01	mg/l	4/28/05	4/29/05		DP
	Iron	0.30	mg/l	4/28/05	4/29/05		DP
	Lead	< 0.01	mg/l	4/28/05	4/29/05		DP
	Magnesium	81	mg/l	4/28/05	4/29/05		DP
	Manganese	0.13	mg/l	4/28/05	4/29/05		DP
	Selenium	< 0.01	mg/l	4/28/05	4/29/05		DP
	Silicon	6.3	mg/l	4/28/05	4/29/05		DP
	Sodium	58	mg/l	4/28/05	4/29/05		DP
	Thallium	< 0.01	mg/l	4/28/05	4/29/05		DP
	Zinc	0.011	mg/l	4/28/05	4/29/05		DP
(1)	EPA Method 300.0 A						
	Sulfate	190	mg/l		4/28/05		AMW
(1)	SM 18 3500Cr-D Hexavalent Chromium						
	Chromium, Hexavalent	<0.01	mg/l		4/27/05	10:58	MJK

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-MW8B-0405

LSL Sample ID:

0506049-005

Location:

Airco Parcel

Sampled:

04/26/05 11:55

Sampled By: Client

An	alytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date .	Date & Time	
(1)	EPA 350.1 Ammonia					
	Ammonia as N	<0.03	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	< 0.05	mg/l	5/3/05	5/19/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Chromium	180.0	mg/l	4/28/05	4/29/05	DP
	Iron	2.1	mg/l	4/28/05	4/29/05	DP
	Lead	< 0.01	mg/l	4/28/05	4/29/05	DP
	Magnesium	40	mg/l	4/28/05	4/29/05	DP
	Manganese	0.14	mg/l	4/28/05	4/29/05	DP
	Selenium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Silicon	9.8	mg/l	4/28/05	4/29/05	DP
	Sodium	200	mg/l	4/28/05	4/29/05	DP
	Thallium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Zinc	0.071	mg/l	4/28/05	4/29/05	DP
(1) E	EPA Method 300.0 A					
	Sulfate	230	mg/l		4/28/05	AMW
(1) S	M 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	0.079	mg/l		4/27/05 10:59	MJK

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-SS-0405

LSL Sample ID:

0506049-006

Location: Sampled:

Airco Parcel

04/26/05 13:45

Sampled By: Client

\mathbf{A}	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	0.031	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	<0.05	mg/l	5/3/05	5/19/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Chromium	<0.01	mg/l	4/28/05	4/29/05	DP
	Iron .	0.051	mg/l	4/28/05	4/29/05	DP
	Lead	< 0.01	mg/l	4/28/05	4/29/05	DP
	Magnesium	14	mg/l	4/28/05	4/29/05	DP
	Manganese	0.018	mg/l	4/28/05	4/29/05	DP
	Selenium	< 0.01	mg/l	4/28/05	4/29/05	DP
	Silicon	2.2	mg/l	4/28/05	4/29/05	DP
	Sodium	4.1	mg/l	4/28/05	4/29/05	DP
	Thallium	0.011	mg/l	4/28/05	4/29/05	DP
	Zinc	0.019	mg/l	4/28/05	4/29/05	DP
(1)	EPA Method 300.0 A					
	Sulfate	23	mg/l		4/28/05	AMW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	<0.01	mg/I		4/27/05 11:00	MJK

EA Engineering, Science and Technology East Syracuse, NY

AP-DUP-0405

LSL Sample ID:

0506049-007

Sample ID: Location:

Airco Parcel

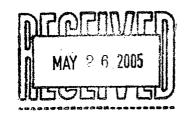
Sampled:

04/26/05 13:45

Sampled By: Client

<0.03 <0.05	Units mg/l	Prep Date	Analysis Date & Time 5/9/05	Analyst Initials DRB
	_		5/9/05	
	_		5/9/05	DRB
<0.05				
<0.05				
	mg/l	5/3/05	5/19/05	TER
< 0.01	mg/l	4/28/05	4/29/05	DP
< 0.01	mg/l	4/28/05	4/29/05	DP
0.31	mg/l	4/28/05	4/29/05	DP
< 0.01	mg/l	4/28/05	4/29/05	DP
78	mg/l	4/28/05	4/29/05	DP
0.13	mg/l	4/28/05	4/29/05	DP
< 0.01	mg/l	4/28/05		DP
6.0	mg/l	4/28/05		DP
56	mg/l	4/28/05		DP
< 0.01	mg/l	4/28/05		DP
< 0.01	mg/l	4/28/05	4/29/05	DP
180	mg/l		4/28/05	AMW
<0.01	mg/l		4/27/05 11:01	МЈК
	<0.01 <0.01 0.31 <0.01 78 0.13 <0.01 6.0 56 <0.01 <0.01	<0.01 mg/l <0.01 mg/l 0.31 mg/l <0.01 mg/l 78 mg/l 0.13 mg/l <0.01 mg/l 6.0 mg/l 56 mg/l <0.01 mg/l <0.01 mg/l <180 mg/l	<0.01	 <0.01 mg/l 4/28/05 4/29/05 <0.01 mg/l 4/28/05 4/29/05 0.31 mg/l 4/28/05 4/29/05 <0.01 mg/l 4/28/05 4/29/05 78 mg/l 4/28/05 4/29/05 0.13 mg/l 4/28/05 4/29/05 <0.01 mg/l 4/28/05 4/29/05 <0.01 mg/l 4/28/05 4/29/05 56 mg/l 4/28/05 4/29/05 <0.01 mg/l 4/28/05 4/29/05





Scott Graham / Robert Casey EA Engineering, Science and Technology 6731 Collamer Road East Syracuse, NY 13057-9759

Phone: (315) 431-4610 FAX: (315) 431-4280

Authorization: PO# 12040.99 0001

Laboratory Analysis Report For

EA Engineering, Science and Technology

Client Project ID:

Airco Parcel - Witmer Rd. Landfill

LSL Project ID: 0506140

Receive Date/Time: 04/28/05 8:21

Project Received by: MW

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Life Science Laboratories, Inc.

LSL Central Lab 5854 Buttemut Drive East Syracuse, NY 13057 Tel. (315) 445-1105 Fax (315) 445-1301 NYS DOH ELAP #10248 NYS DOH ELAP #10900 NYS DOH ELAP #11667 PA DEP #68-2556

LSL North Lab 131 St. Lawrence Avenue Waddington, NY 13694 Tel. (315) 388-4476 Fax (315) 388-4061

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LSL MidLakes Lab 699 South Main Street Canandaigua, NY 14424 Tel. (585) 396-0270 Fax (585) 396-0377 NYS DOH ELAP #10760 NYS DOH ELAP #11369

This report was reviewed by:

A copy of this report was sent to:

Page 1 of 8

Date Printed:

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-MW4B-0405

LSL Sample ID:

0506140-001

Location:

Airco Parcel - Witmer Rd. Landfill

Sampled:

04/27/05 9:50

Sampled By: RC

Ai	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	< 0.03	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					•
	Phenolics, Total Recoverable	< 0.05	mg/l		5/18/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	<0.01	mg/l	4/29/05	5/2/05	DP
	Chromium	0.22	mg/l	4/29/05	5/2/05	DP
	Iron	1.3	mg/l	4/29/05	5/2/05	DP
	Lead	< 0.01	mg/l	4/29/05	5/2/05	DP
	Magnesium	40	mg/l	4/29/05	5/2/05	DP
	Manganese	0.025	mg/l	4/29/05	5/2/05	DP
	Selenium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Silicon	8.4	mg/l	4/29/05	5/2/05	DP
	Sodium	99	mg/l	4/29/05	5/2/05	DP
	Thallium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Zinc	0.040	mg/l	4/29/05	5/2/05	DP
(1)	EPA Method 300.0 A					
	Sulfate	140	mg/l		5/3/05	AMW
(I)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	0.18	mg/l		4/28/05 09:50	МЈК

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-MW5B-0405

LSL Sample ID:

0506140-002

Location: Sampled:

Airco Parcel - Witmer Rd. Landfill

04/27/05 10:05

Sampled By: RC

A	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	<0.03	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	<0.05	mg/l		5/18/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Chromium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Iron	1.2	mg/l	4/29/05	5/2/05	DP
	Lead	< 0.01	mg/l	4/29/05	5/2/05	DP
	Magnesium	65	mg/l	4/29/05	5/2/05	DP
	Manganese	0.058	mg/l	4/29/05	5/2/05	DP
	Selenium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Silicon	8.7	mg/l	4/29/05	5/2/05	DP
	Sødium	71	mg/l	4/29/05	5/2/05	DP DP
	Thallium	< 0.01	mg/I	4/29/05	5/2/05	DP
	Zinc	0.085	mg/l	4/29/05	5/2/05	DP
7)	EPA Method 300.0 A					
	Sulfate	140	mg/l		5/3/05	AMW
1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	0.02	mg/l		4/28/05 10:03	МЈК

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-MW7B-0405

LSL Sample ID:

0506140-003

Location:

AT -141 AA 110-0402

Airco Parcel - Witmer Rd. Landfill

Sampled:

04/27/05 10:15

Sampled By: RC

A	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Tim	e Initials
(1)	EPA 350.1 Ammonia					-
	Ammonia as N	0.11	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	<0.05	mg/l		5/18/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Chromium	0.091	mg/l	4/29/05	5/2/05	DP
	Iron	6.3	mg/l	4/29/05	5/2/05	DP
	Lead	0.019	mg/l	4/29/05	5/2/05	DP
	Magnesium	12	mg/l	4/29/05	5/2/05	DP
	Manganese	0.13	mg/l	4/29/05	5/2/05	DΡ
	Selenium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Silicon	15	mg/l	4/29/05	5/2/05	DP
	Sodium	63	mg/l	4/29/05	5/2/05	DP
	Thallium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Zine	0.082	mg/l	4/29/05	5/2/05	DP
(1)	EPA Method 300.0 A					
	Sulfate	44	mg/l		5/3/05	AMW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	0.06	mg/l		4/28/05 10:	12 MJK

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-RB-0405

LSL Sample ID:

0506140-004

Location: Sampled:

Airco Parcel - Witmer Rd. Landfill

04/27/05 11:45

Sampled By: RC

Aı	nalytical Method			Prep	Analysis	Analyst
	Analyte	Result	Units	Date	Date & Time	Initials
(1)	EPA 350.1 Ammonia					
	Ammonia as N	<0.03	mg/l		5/9/05	DRB
(1)	EPA 420.1 Recoverable Phenolics ML					
	Phenolics, Total Recoverable	<0.05	mg/l		5/18/05	TER
(1)	EPA 6010 Total Metals					
	Cadmium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Chromium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Iron	< 0.05	mg/l	4/29/05	5/2/05	DP
	Lead	0.015	mg/l	4/29/05	5/2/05	DP
	Magnesium	<1	mg/l	4/29/05	5/2/05	DP
	Manganese	< 0.01	mg/l	4/29/05	5/2/05	DP
	Selenium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Silicon	0.018	mg/l	4/29/05	5/2/05	DP
	Sodium	<1	mg/l	4/29/05	5/2/05	DP
	Thallium	< 0.01	mg/l	4/29/05	5/2/05	DP
	Zinc	0.010	mg/l	4/29/05	5/2/05	DP
(1)	EPA Method 300.0 A					
	Sulfate	2.0	mg/l		5/3/05	AMW
(1)	SM 18 3500Cr-D Hexavalent Chromium					
	Chromium, Hexavalent	<0.01	mg/l		4/28/05 10:34	МЈК

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-SWB-0405

LSL Sample ID:

0506140-005

Location: Sampled:

Airco Parcel - Witmer Rd. Landfill 04/27/05 11:35

Sampled By: RC

\mathbf{A}	nalytical Method			Pren	Prep Analysis		
	Analyte	Result	Units	Date	Date & Time	Analyst Initials	
(1)	EPA 420.1 Recoverable Phenolics ML					111111111	
	Phenolics, Total Recoverable	<0.05	mg/l		5/18/05	TER	
(1)	EPA 6010 Total Metals						
	Cadmium	<0.01	mg/l	4/29/05	5/2/05	DP	
	Chromium	< 0.01	mg/l	4/29/05	5/2/05	DP	
	Iron	< 0.05	mg/l	4/29/05	5/2/05	DP	
	Lead	< 0.01	mg/l	4/29/05	5/2/05	DP	
	Magnesium	< 0.01	mg/l	4/29/05	5/2/05	DP	
	Manganese	< 0.01	mg/l	4/29/05	5/2/05	DP	
	Selenium	< 0.01	mg/l	4/29/05	5/2/05	DP	
	Silicon	0.013	mg/l	4/29/05	5/2/05	DP	
	Sodium	<1	mg/l	4/29/05	5/2/05	DP	
	Thallium	0.011	mg/l	4/29/05	5/2/05	DP	
	Zinc	< 0.01	mg/l	4/29/05	5/2/05	DP	
1)	EPA Method 300.0 A						
	Sulfate	1.7	mg/l		5/3/05	AMW	
1)	SM 18 3500Cr-D Hexavalent Chromium					7.1141	
	Chromium, Hexavalent	<0.01	mg/l		4/28/05 10:43	МЈК	

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-EFF-7-0405

LSL Sample ID:

0506140-006

Location:

Airco Parcel - Witmer Rd. Landfill

Sampled:

04/27/05 10:50

Sampled By: RC

Analytical Method Analyte	Resu	lt Units	Prep Date	Analy Date &		Analyst
(1) EPA 150.1 pH				Date &	x IIIIE	Initials
рН	6.	.5 Std. Units		4/28/05	1.5.4.	
pH Measurement Temperature	2	5 Degrees C		4/28/05		MW
NYS DOH ELAP specifications require pH to be measured within	n one hour of sampi	le collection.		4120103	15:44	MW
(1) EPA 160.2 Total Suspended Solids						
Total Suspended Solids @ 103-105 C	<	4 mg/]		5/2/05		
(1) EPA 200.7 Total Metals				5/3/05		MM
Barium	<0.2	2 mg/l	1100107			
Chromium	0.039		4/29/05	5/2/05		DP
Copper	<0.01		4/29/05	5/2/05		DP
Iron	0.57		4/29/05 4/29/05	5/2/05		DP
Nickel	<0.01	U	4/29/05	5/2/05		DP
Selenium	<0.01		4/29/05	5/2/05 5/2/05		DP
Thallium	0.025	-	4/29/05	5/2/05		DP
Zinc	0.022		4/29/05	5/2/05		DP
(I) EPA 350.1 Ammonia		J	25703	312103		DP
Ammonia as N	4.3	mg/l				
(1) EPA 351.2 TKN as N	4.5	mg/i		5/9/05		DRB
Total Kjeldahl Nitrogen						
	4.7	mg/l	5/5/05	5/9/05		DRB
T) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	<4	mg/l		4/28/05	17:38	MM
7) EPA 420.1 Recoverable Phenolics LL					17.50	147141
Phenolics, Total Recoverable	0.014	mg/l		511.010.0		
DEPA 601 Halocarbons by 624(Partial List)	0.014	ing/i		5/18/05		TER
1,1-Dichloroethane						
Trichloroethene	<1	ug/I		5/4/05		BD
Surrogate (Tol-d8)	<1	ug/l		5/4/05		BD
Surrogate (4-BFB)	110	%R		5/4/05		BD
Surrogate (1,2-DCA-d4)	102	%R		5/4/05		BD
EPA Method 300.0 A	87	%R		5/4/05		BD
Nitrate as N						
Nitrite as N	0.50	mg/l		4/28/05	9:46	AMW
	0.39	mg/l		4/28/05 1	9:46	AMW
HACH 8000 COD						
Chemical Oxygen Demand	22	mg/l		5/10/05		TER
SM 18 3500Cr-D Hexavalent Chromium				10/05	•	IEK
Chromium, Hexavalent	<0.01	mg/l				
	-0.01	₆ , 1		4/28/05 1	0:35	MJK

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

Trip Blank

LSL Sample ID:

0506140-007

Location: Sampled: Airco Parcel - Witmer Rd. Landfill

04/27/05 0:00

Sampled By: RC

Sample Matrix: TB

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<]	ug/l		5/3/05	BD
Trichloroethene	<1	ug/l		5/3/05	BD
Surrogate (Tol-d8)	112	%R		5/3/05	BD
Surrogate (4-BFB)	113	%R		5/3/05	BD
Surrogate (1,2-DCA-d4)	109	%R		5/3/05	BD

Attachment E

Landfill Cap Inspection Checklist April 2005

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

EA Personnel:

Robert Casey

Date:

27 April 2005

Weather:

Clear, mid-40s

1. Inspection of ground surface for exposure of geotextile cover (cap erosion):
No erosion observed.

2. Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:

No deficiencies observed.

3. Identification of stressed vegetation:

Vegetation on landfill (grass), approximately 0.5-ft high; no stressed vegetation observed.

- 4. Identification of seeps, rooted vegetation (trees), and/or animal burrows:

 Observed some small rodent burrows in topsoil throughout the site. Rodents are most likely a type of field mice. Groundwater flow structure located along the southwest side of landfill.
- 5. Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):

Monitoring wells show some rusting of the steel protective casings. May choose to grind rust, prime, and paint before rust gets too far into the metal.

- 6. Inspection of stormwater drainage swales for erosion, sloughing, or flow-through: Drainage swales are clear with the exception of the one located at the southwest edge, where soils and vegetation have covered the stone swale. It should be cleaned and new stone installed.
- 7. Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:

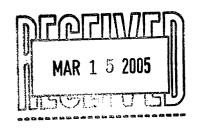
 No deficiencies observed.
- 8. Inspection of access roads:

Access roads were in good shape. Vegetation was observed beginning to grow in many areas of the road. Defoliant should be used to remove the vegetation in the roadways.

Attachment F

Laboratory Analytical Results for GCTS Discharge Sampling





Scott Graham EA Engineering, Science and Technology 6731 Collamer Road East Syracuse, NY 13057-9759

Phone: (315) 431-4610 FAX: (315) 431-4280

Laboratory Analysis Report For

EA Engineering, Science and Technology

Client Project ID:

Witmer Rd. Landfill

LSL Project ID: **0502832**

Receive Date/Time: 02/25/05 13:26

Project Received by: RD

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Life Science Laboratories, Inc.

LSL Central Lab 5854 Butternut Drive East Syracuse, NY 13057 Tel. (315) 445-1105 Fax (315) 445-1301 PA DEP #68-2556

LSL North Lab 131 St. Lawrence Avenue Waddington, NY 13694 Tel. (315) 388-4476 Fax (315) 388-4061 NYS DOH ELAP #10248 NYS DOH ELAP #10900 NYS DOH ELAP #11667

LSL Finger Lakes Lab 16 N. Main St., PO Box 424 Wayland, NY 14572 Tel. (585) 728-3320 Fax (585) 728-2711

LSL Southern Tier Lab 30 East Main Street Cuba, NY 14727 Tel. (585) 968-2640 Fax (585) 968-0906 NYS DOH ELAP #10760

LSL MidLakes Lab 699 South Main Street Canandaigua, NY 14424 Tel. (585) 396-0270 Fax (585) 396-0377 NYS DOH ELAP #11369

This report was reviewed by:

Life Science Laboratories, Inc.

Page 1 of 3

A copy of this report was sent to:

Date Printed:

3/11/05

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-E

AP-EFF7-022505

LSL Sample ID:

0502832-001

Location:

Witmer Rd. Landfill

Sampled:

02/25/05 9:30

)

Sampled By: RSC

Sample Matrix: NPW

Aı	Analytical Method Analyte		Units	Prep Date	Analysis Date & Time		Analy: Initia
<u>=</u>	EPA 150.1 pH	Result					
	pH	6.4	Std. Units		2/25/0	5 14:57	Gl
	pH Measurement Temperature	25	Degrees C		2/25/0:		GI
NY	S DOH ELAP specifications require pH to be measured within		_				
(1)	EPA 160.2 Total Suspended Solids						
	Total Suspended Solids @ 103-105 C	79	mg/l		2/28/05	5	MN
(1)	EPA 200.7 Soluble Metals	,,	***************************************		2/20/03	,	1411
(1)	Barium	<0.2	ma/l		2/20/04		n
	Chromium	<0.2	mg/l mg/l		2/28/05 2/28/05		D D
	Copper	<0.01	mg/l		2/28/05		D
	Iron	27	mg/l		2/28/05		D
	Nickel	0.018	mg/l		2/28/05		D
	Selenium	<0.01	mg/l		2/28/05		D
	Thallium	<0.01	mg/l		2/28/05		D
	Zinc	0.036	mg/l		2/28/05		D
1)	EPA 200.7 Total Metals						2.
•/	Barium	<0.2	mg/l		2/28/05		Di
	Chromium	<0.01	mg/l		2/28/05		D.
	Copper	<0.01	mg/l		2/28/05		D
	Iron	38	mg/l		2/28/05		D:
	Nickel	< 0.01	mg/l		2/28/05		Di
	Selenium	<0.01	mg/l		2/28/05		Di
	Thallium	<0.01	mg/l		2/28/05		DI
	Zinc	0.036	mg/l		2/28/05		DF
)	EPA 350.1 Ammonia						
	Ammonia as N	2.0	mg/l		3/3/05		DRB
)]	EPA 351.2 TKN as N		•				
, ,	Total Kjeldahl Nitrogen	2.8	mg/l	3/9/05	3/10/05		DRB
		2.0	ing/i	3/3/03	3/10/03		Did
)]	EPA 405.1 BOD-5		_				
	Biochemical Oxygen Demand, 5 Day	6.4	mg/l		2/25/05	20:55	MM/KB B
) I	EPA 420.1 Recoverable Phenolics LL						2
	Phenolics, Total Recoverable	< 0.05	mg/l	2/28/05	3/1/05		DH
. т	•	-0.03	11.6.1	2/20/05	3/1/03		DII
) F	EPA 601 Halocarbons by 624(Partial List)						
	1,1-Dichloroethane	<1	ug/l		3/1/05		LEF
	Trichloroethene	<1 99	ug/l		3/1/05 3/1/05		LEF
	Surrogate (A RER)	99 95	%R %R		3/1/05		LEF LEF
	Surrogate (4-BFB) Surrogate (1,2-DCA-d4)	95 107	%R %R		3/1/05		LEF
		107	/u.t		5/1/05		1,1,1,
E	PA Method 300.0 A		_				
	Nitrate as N	1.6	mg/l		2/25/05	17:02	AMW
	Nitrite as N	0.49	mg/l		2/25/05	17:02	AMW
F	iltering Charge for Dissolved Metals						
	Laboratory filtration charge				2/28/05		DP

Life Science Laboratories, Inc.

Date Printed:

Page 2 of 3 3/11/05

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-EFF7-022505

LSL Sample ID:

0502832-001

Location:

Witmer Rd. Landfill

Sampled:

02/25/05 9:30

Sampled By: RSC

Sample Matrix: NPW

Analytical Method Analyte		Result Units		Prep Date	Analysis Date & Time	Analyst İnitials
= (1)	HACH 8000 COD Chemical Oxygen Demand	15	mg/l		3/10/05	DH
(1)	SM 18 3500Cr-D Hexavalent Chromium Chromium, Hexavalent	<0.5	mg/l		2/28/05	DH
(1)	SM18-2540C Total Dissolved Solids Total Dissolved Solids @ 180 C	780	mg/l		2/28/05	ММ

Sample ID:

Trip Blank

LSL Sample ID:

0502832-002

Location:

Sampled:

02/18/05 0:00

Sampled By: RSC

Sample Matrix: TB

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		3/1/05	LEF
Trichloroethene	<1	ug/l		3/1/05	LEF
Surrogate (Tol-d8)	100	%R		3/1/05	LEF
Surrogate (4-BFB)	106	%R		3/1/05	LEF
Surrogate (1,2-DCA-d4)	109	%R		3/1/05	LEF

EA Engineering, Science and Technology

East Syracuse, NY

Sample ID:

AP-EFF-7-0405

LSL Sample ID:

0506140-006

Location:

Airco Parcel - Witmer Rd. Landfill

Sampled:

04/27/05 10:50

Sampled By: RC

Sample Matrix: NPW

An	alytical Method Analyte	Result	Units	Prep Date	Analy Date &		Analyst Initials
(1)	EPA 150.1 pH						
	pН	6.5	Std. Units		4/28/05	15:44	MW
	pH Measurement Temperature	25	Degrees C		4/28/05	15:44	MW
NYS	$SDOH\ ELAP$ specifications require pH to be measured within	one hour of sample	collection.				
(1)	EPA 160.2 Total Suspended Solids						
	Total Suspended Solids @ 103-105 C	<4	mg/l		5/3/05		MM
(1)	EPA 200.7 Total Metals						
	Barium	<0.2	mg/l	4/29/05	5/2/05		DP
	Chromium	0.039	mg/l	4/29/05	5/2/05		DP
	Copper	<0.01	mg/l	4/29/05	5/2/05		DP
	Iron	0.57	mg/l	4/29/05	5/2/05		DP
	Nickel	< 0.01	mg/l	4/29/05	5/2/05		DP
	Selenium	< 0.01	mg/l	4/29/05	5/2/05		DP
	Thallium	0.025	mg/l	4/29/05	5/2/05		DP
	Zinc	0.022	mg/l	4/29/05	5/2/05		DP
(1)	EPA 350.1 Ammonia						
	Ammonia as N	4.3	mg/l		5/9/05		DRB
(I)]	EPA 351.2 TKN as N		•				
	Total Kjeldahl Nitrogen	4.7	mg/l	5/5/05	5/9/05		DRB
<i>1)</i> }	EPA 405.1 BOD-5						
	Biochemical Oxygen Demand, 5 Day	<4	mg/l		4/28/05	17:38	MM
<i>1)</i> E	EPA 420.1 Recoverable Phenolics LL						
	Phenolics, Total Recoverable	0.014	mg/l		5/18/05		TER
<i>1)</i> E	EPA 601 Halocarbons by 624(Partial List)						
	1,1-Dichloroethane	<1	ug/l		5/4/05		BD
	Trichloroethene	<1	ug/l		5/4/05		BD
	Surrogate (Tol-d8)	110	%R		5/4/05		BD
	Surrogate (4-BFB)	102	%R		5/4/05	,	BD
	Surrogate (1,2-DCA-d4)	87	%R		5/4/05		BD
υE	PA Method 300.0 A						
	Nitrate as N	0.50	mg/l		4/28/05	19:46	AMW
	Nitrite as N	0.39	mg/l		4/28/05	19:46	AMW
Н	ACH 8000 COD						
	Chemical Oxygen Demand	22	mg/l		5/10/05		TER
SI	M 18 3500Cr-D Hexavalent Chromium		-			•	
	Chromium, Hexavalent	< 0.01	mg/l		4/28/05	10:35	МЈК
	Con Comming Advant Mibile	-0.01			-11201UJ	10.55	WIJIX

Page 7 of 8

Life Science Laboratories, Inc.

Attachment G

Monthly Operation and Maintenance Details January—June 2005

Project No.: 12040.99 Attachment G, Page 1 of 7 September 2005

1. INTRODUCTION

This report presents a summary of the ongoing operation and maintenance activities for the Airco Parcel site from 1 January to 30 June 2005. It includes a summary of ongoing operations and repairs, corrective actions, improvements, and an analysis of the groundwater collection treatment system (GCTS) performance.

2. ROUTINE OPERATION AND MAINTENANCE

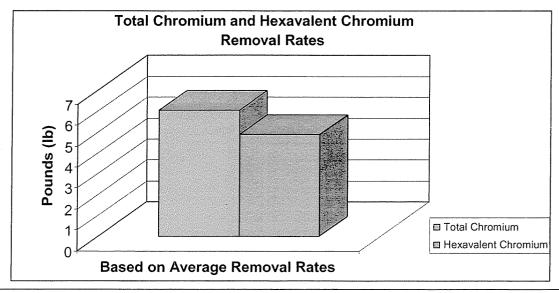
The 21,600 gal per day discharge limit was not exceeded during the reporting period. Table 2 of the Bi-Annual 2005 Monitoring Event Letter Report provides a summary of the quarterly effluent analytical data from February and April.

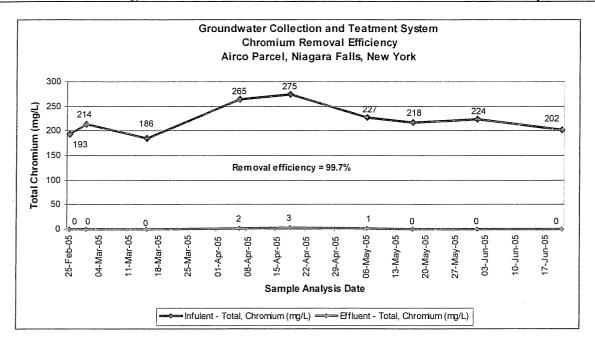
Routine operation and maintenance was completed weekly throughout the monitoring period. Field tasks included system checks, data collection, and field analysis of treatment water at various stages of the treatment process, transducer cleanings, and general site maintenance.

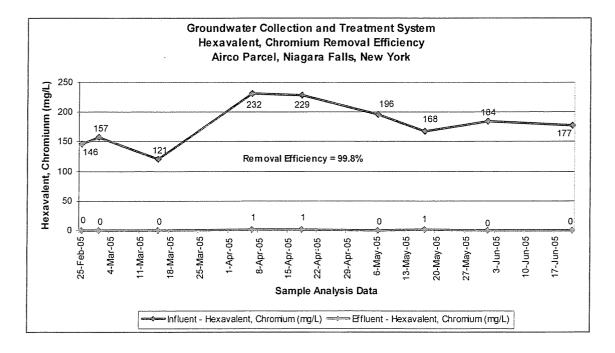
3. SYSTEM OPERATIONS AND EFFICIENCY

During this monitoring period, approximately 3,258,000 gal of groundwater were treated and discharged to the wetlands adjacent to the southwest corner of the Airco Parcel property. The treatment system was operational for approximately 3,869.5 hours or over 89 percent of the time during the quarter.

Routine maintenance continued throughout the quarter. The completed Airco Parcel Bi-Weekly System Monitoring Checklists are provided in Attachment G.1. The following charts illustrate the total chromium and hexavalent chromium removal efficiency for the GCTS throughout the monitoring period. On average, the system removed 99.7 percent of the total chromium and 99.8 percent of the hexavalent chromium. For the quarter, the system has removed an estimated 6.03 lb of total chromium of which 4.85 lb was hexavalent chromium. The following charts illustrate the GCTS removal rate (lb) and efficiency:







3.1 SYNOPSIS OF SYSTEM DOWNTIME

January 2005

The GCTS operated normally throughout January 2005.

February 2005

The system had one unscheduled shut down in February 2005:

• On 24 February 2005, the system shut down due to an ice buildup in the impeller casing and the check valve had become lodged open. The system was down for 4 hours. Heaters were installed on the backside of the weir in Sediment Pond B to prevent further freezing issues during winter operations.

March 2005

The system had one unscheduled shut down in March 2005:

• On 1 March 2005, the system shut down due to the loss of suction at Pump 4A. This was caused by a low level in T3B (the backside of Sediment Pond A). The low level occurred due to a high pH alarm condition which resulted in the shut down of Pump 1, which supplies the system with untreated water. The system was down for 1 day, until the pH level in Sediment Pond A was reduced to 7.0 NTU.

April 2005

The system had one unscheduled shut downs in April 2005:

• On 26 April 2005, the system shut down due to a high level alarm on Sediment Pond B. The system was down for 2 hours.

May 2005

The system had one unscheduled shut down in May 2005:

• On 6 May 2005, the system shut down due a P1 failure. The pump would not restart after the system alarm had been reset. Field troubleshooting indicated that the pump was running, just not pushing water to Sediment Pond A. It was determined that an airlock inside the influent piping was the problem. The airlock was bled off and the system began operating normally. The system was down for 4.5 hours.

June 2005

The system had one unscheduled shut down and one scheduled shut-off in June 2005:

- On 1 June 2005, the system shut down due to P1 failure. The motor had seized on the pump and was no longer operational. Pump P1 had run continuously for approximately 3 years. The pump was replaced with an identical pump and the system was restarted. The system was down for 8 hours while the pump was being replaced.
- On 10 June 2005, the system notified EA personnel that every alarm condition had been activated. Earlier that morning a thunder/lightning storm had passed through Niagara

Falls. Upon arrival, the EA technician noted that the transducers were toggling between a real reading and an obscure reading. After field troubleshooting and discussion with the programmable logic controller (PLC) engineer, it was determined that the analog input board had been damaged, most likely an electrical surge during the thunder/lightning storm earlier that morning. The system was shut down and a new analog input board was ordered for the control panel.

- On 21 June 2005, the new analog input was installed and the system was restarted. The transducers were still experiencing some minor toggling. The system was shut down; EA scheduled the system's electrician for a site visit to aid in troubleshooting the issues encountered with the transducers.
- On 28 June 2005, Ken Miller (system electrician) and Robert Casey (EA) completed the field investigation of the site transducers. The system was restarted and was operating normally. The system was down for 432 hours from 10 through 28 June 2005 while the repairs were made.

3.2 SYNOPSIS OF THE BI-ANNUAL ACTIVITIES

February 2005

- **24 February**—Reduce influent from P1 to create steady state. Took P4A apart and found some ice in the impeller casing. Thawed casing and re-installed pump.
- 25 February—Pumped out Drywell T7 and collected quarterly samples from P7.

March 2005

- 1 March—Primed P4A and restarted. Reset high speed setting. Installed flowmeter on the back side of P4B. Reset totalizer to zero. Insulated the door of the pump house and did some clean up of pump house floor.
- 2 March—Increased flow on tube diffuser manifold due to pH of 7.3. Pump P4A operating at 0 psi and Pump P4B operating at approximately at 15 psi and 36-38 gpm. Determined that an increase of psi on P4A would mean that calcium carbonate is building up in the pump, lines, and zero valence iron (ZVI) beds and an increase of psi on P4B would mean that residual iron is building up in the flowmeter. Cleaned the flowmeter. Carbon dioxide tank at 6,500 lb and 245 psi. GCTS seems to be maintaining a steady-state.
- 9 March—Water level in Pond A is a bit high (2.8) but not at high level (3.0). Noticed some calcium carbonate making it over the weir to the shallow end of pond. Welded manifold in pump house. Carbon dioxide tank at 4,300 lb and 240 psi.
- 15 March—Carbon dioxide tank is empty with 0 psi. Carbon dioxide delivery 16 March. Talked with Dave from BOC about sending out a service technician with the tank fill. He can have one out on Thursday (17 March 2005) with delivery. System is operating fine.

- **24 March**—Carbon dioxide tank was filled on Thursday, 17 March 2005. Receipt from tank fill shows they only filled tank to 7,200 lb. Current tank reading is at 3,900 lb. Used approximately 3,300 lb within a week. Called for a tank refill, scheduled for 28 or 29 March 2005. System operating properly. Flowmeter not recording flow. Must be clogged with iron; will check. Carbon dioxide tank at 3,900 lb and 230 psi.
- 30 March—Met with NALCO Representative (Larry) for system treatment water jar testing. Carbon dioxide tank filled on 28 March 2005 to 12,000 lb; tank reading was 2,350 lb; quantity delivered was 9,650 lb. Carbon dioxide reading at time of arrival was 11,100 lb. System operating normally. More calcium carbonate build up on weir wall and shallow end of Pond A.

April 2005

- 6 April—System operating properly. Pumped out Drywell T7. Wetland shallow end is beginning to get a bit red from iron. Carbon dioxide tank at 8,450 lb.
- 11 April—System operating normally. Carbon dioxide tank at 5,400 lb.
- 18 April—Site meeting with ADELPHIA. Carbon dioxide tank at 1,900 lb and 250 psi. Called for tank fill, will be filled tomorrow or Wednesday. Pond A is milky again (photo taken). East fence cut again (photo taken). ADELPHIA Representatives will not be able to complete application. Need surveyors to get height on overhead high voltage lines (Wendell Duchscherer); set pole along southwest side of access road. Cleaned flowmeter and it is working again. System operating normally.
- **26 April**—Restarted system in morning. System shut down due to high level alarm on Sediment Pond B (T6). Transducer reading 619.4. Cleaned transducer, and still not reading properly. Switched discharge from P4A to one ZVI vessel to see if we would get enough contact time from one vessel. Collected two samples for hexavalent chromium: Sample 1 = 0.011 mg/L and Sample 2 = 0.026 mg/L.
- 27 April—System operating normally. Collected one sample for hexavalent chromium: Sample 3 = 0.072 mg/L. Switched the discharged from P4A back to two ZVI beds to increase the contact time. One bed is not enough. Collected effluent sample: Hexavalent chromium = 0.010 μg/L. Carbon dioxide tank at 10,000 lb and 230 psi.

May 2005

• 6 May—Met with Wendell Duchscherer for site visit regarding survey for DSL line install. System not operating at arrival. Ponds look good. No influent from P1. Mike Hinton arrived onsite to check on system. Updated him on system performance and issues. P1 is pulling low amperage (1.15A). Pump manufacturer thinks it may be due to an air lock or sitting in too much sediment. Took apart ball valve in steel box behind pH meter and turned on the pump. Seemed to bleed some air and then water. Turned system back on. Things back to normal. Replaced transducer.

- 13 May—System operating normally. Everything looks good.
- **26 May**—System operating normally.

June 2005

- 1 June—Shut down system to install new pump. Confined space entry into manhole. Air quality monitoring conducted while inside manhole. Robert Casey, Dana Kaiser, and Kurt Ilker present for entry. Exited manhole and opened ball valve to drain line. Used harness and tripod. Mike Hinton onsite and discussed pump replacement with Casey. Pump removed and pulled wiring snake through conduit. Mike Hinton walked landfill. Continued to wait for force main to empty into manhole. Removed, cleaned, and replaced ball valve. Installed new pump. Allowed manhole to fill with water. System restarted and is operating properly. Flow seems a bit slow from P1. Could be due to empty line and pressure from Pond A and calcium carbonate build up.
- 7 June—System operating normally. Mike Hinton onsite for site walk.
- 10 June. Onsite for emergency site visit. All alarm conditions on and sound level high. Turned power back on and the status stayed the same. Relays are popping and alarm condition lists are the same, as well as readings from transducers. Unhooked all transducers and pH meter. Restarted system and results same as before. Checked amperage to PLC from transducers all lines in show 0.04A. Problem does not seem to be the units. Spoke with Chip McLeod and Ken Miller about the issues encountered. Ken seems to think that the analog input board may be bad. He will send a new one up with new modem as well.
- 13 June—Onsite to cycle power for PLC programmer. System still down.
- **June 21**—Onsite to install new modem and analog input board as well as system startup. Upon arrival system carbon dioxide tank at high pressure (390 psi). Diffuser blowing off-gas. Relieved pressure from tank now at 255 psi. All due to the system being down. Installed modem and powered up system. Still some toggling at transducers. Shut system down again.
- **28 June**—Ken Miller (system electrician) and Robert Casey (EA) completed the field investigation of the site transducers. The system was restarted and was operating normally.

4. MODIFICATIONS/IMPROVEMENTS AND RECOMMENDATIONS

4.1 SYSTEM MODIFICATION/IMPROVEMENTS

During the monitoring period of July-December 2005, EA projects the following modifications and improvements to the GCTS:

- Installing an upgraded flowmeter to reduce maintenance issues associated with the current flow monitoring system and provide more accurate and real time flow data.
- Install new utility pole to provide for DSL line service to the PLC, which will allow for real time remote monitoring of system components and performance.
- Add an additional 24 VDC power supply to the control panel for dedicated use with the variable frequency drive which will provide uninterrupted power supply to the drive and lessen background electrical noise received by the pressure transducers.
- Create an internet website dedicated to monitoring the GCTS, allowing for access to real time data to EA; The BOC Group, Inc.; and New York State Department of Environmental Conservation.

5. PROJECTED OPERATION AND MAINTENACE

5.1 JULY-DECEMBER 2005

During the monitoring period of July-December 2005, EA has projected completing the following list of tasks for operation and maintenance of the Airco Parcel:

- Removal of the stained crushed stone from the southwest corner from MW-6B to the southwest corner fence line to a depth of 6 in., and replacement with new stone material (projected for October 2005).
- Landfill cap mowing activities (October 2005).

5.2 OTHER SYSTEM ACTIVITIES

None.

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 are maintained and no short circuiting is occurring in the ZVI beds. Quarterly discharge samples will be collected during September and December 2005 from the GCTS to meet the New York State Department of Environmental Conservation discharge permit requirements. EA will also complete the second bi-annual groundwater monitoring event in October 2005.

Attachment G.1

Airco Parcel Bi-Weekly System Monitoring Checklists

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

240	CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
<u> </u>	CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
OFF	P1 Running Status (on/off)
616.9	T3 Water Elevation
6.2	T3 pH
NA	T3 Temperature
02	P4A Running Status (on/off)
82	P4A Pressure Gauge (normal range = 10psi)
615.8	T6 Water Elevation
<u> </u>	P4B Running Status (on/off)
614.1	T7 Water Elevation
02	P7 Running Status (on/off)

date: 25 FEB 2005 personnel: P. CASEY

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0.146	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.193	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	ac France	
Jaic.	- 10 1EG 100S	
Personnel:	f-CAZZY	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

6500	CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
245	CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
OFT	P1 Running Status (on/off)
617.2	T3 Water Elevation
5.9	T3 pH
_NA	T3 Temperature
<u> </u>	P4A Running Status (on/off)
6.5	P4A Pressure Gauge (normal range = 10psi)
<u> (18.7</u>	T6 Water Elevation
ON	P4B Running Status (on/off)
614.1	T7 Water Elevation
<u>on</u>	P7 Running Status (on/off)

date: I MANUT 2005
personnel: p:CASEY

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0157	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L)
0.214	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u> </u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	1 MARCH 2005	
Personnel:	P. CAZAV	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

230	CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
2,800	CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
<u> </u>	P1 Running Status (on/off)
616.9	T3 Water Elevation
6.4	Т3 рН
<u>NA</u>	T3 Temperature
OFF	P4A Running Status (on/off)
4.5	P4A Pressure Gauge (normal range = 10psi)
615.8	T6 Water Elevation
_OFF	P4B Running Status (on/off)
614.1	T7 Water Elevation
OFF	P7 Running Status (on/off)

date: 15 MARCH 2005 personnel: Kasey

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0.121	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L)
0.186	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	3/15/2005	
Personnel:	R. CASEY	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

	Headischi Oysteni Oneokiist
8,450	CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
241	CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
<u> </u>	P1 Running Status (on/off)
616.9	T3 Water Elevation
6.1	ТЗ рН
NA	T3 Temperature
OFF	P4A Running Status (on/off)
	P4A Pressure Gauge (normal range = 10psi)
615.9	T6 Water Elevation
ON	P4B Running Status (on/off)
614.2	T7 Water Elevation
OFF	P7 Running Status (on/off)

date: 6 APLICOS
personnel: PAREY

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0,232	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L)
0.265	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
0.001	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.004	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0.001	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0,002	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	4/6/05	
Personnel:	P.CASEY	

Airco Parcel **Groundwater Collection and Treatment System** Niagara Falls, New York

Treatment System Checklist

CO2 Storage Ta	ank Pressure (Normal Range = 220 - 235psi)
250 CO2 Storage Lie	quid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
OF P1 Running Sta	us (on/off)
(017.0) T3 Water Elevat	ion
<u> 7.シ</u> тз pH	
NA T3 Temperature	
P4A Running Sta	atus (on/off)
55 P4A Pressure Ga	auge (normal range = 10psi)
<u>€15.7</u> T6 Water Elevati	on
6 N P4B Running Sta	tus (on/off)
614. 4 T7 Water Elevation	חכ
6N P7 Running Statu	s (on/off)

date: 18 ADRICOS
personnel: Acase7

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

		<u>Standard</u>
0,229	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.775	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
0,001	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0,00b	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0,001	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.003	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	18 APRIL 05	
Personnel:	19 APRIL 05 A CASEY	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
2) CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
P1 Running Status (on/off)
617.0 T3 Water Elevation
<u>6.8</u> T3 pH
WA T3 Temperature
P4A Running Status (on/off)
P4A Pressure Gauge (normal range = 10psi)
T6 Water Elevation # NIT READING PROPERLY (REPLACED)
P4B Running Status (on/off)
014.4 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 5/6/05
personnel: p.c.sey

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0,196	DAA Haara laat Observing Ossas statics (mar/l)	Standard
07/16	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0,227	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
0.000	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.001	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.061	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	5/65	
Personnel:	P.CASEY	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist

	CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
PARAMETER STATE OF THE STATE OF	CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs
	P1 Running Status (on/off)
6170	T3 Water Elevation
6.6	T3 pH
_M	T3 Temperature
<u>on</u>	P4A Running Status (on/off)
_5	P4A Pressure Gauge (normal range = 10psi)
6187	T6 Water Elevation
OFF	P4B Running Status (on/off)
614.1	T7 Water Elevation
OF	P7 Running Status (on/off)

date: 5/11/05 personnel: Pursey

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

6.68	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L)
0:218	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
0.001	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
		·
Date:	5/17/05	
Personnel:	P, CASEY	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

Treatment System Checklist CO2 Storage Tank Pressure (Normal Range = 220 - 235psi) CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) *Note: call for refill @ 2,000 - 3,000lbs P1 Running Status (on/off) T3 Water Elevation T3 pH T3 Temperature P4A Running Status (on/off) P4A Pressure Gauge (normal range = 10psi) T6 Water Elevation P4B Running Status (on/off) T7 Water Elevation P7 Running Status (on/off) date: b | 1 | 05 personnel:

* System dans for PI install. Restanted @ 1500 Samples COLLECTED FOR FIELD ANALYSIS.

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

0.184	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L)
0.224	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0,001	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0,001	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	I JUNE OS	
Personnel:	10 A NEV	

Airco Parcel Groundwater Collection and Treatment System Niagara Falls, New York

	Treatment System Checklist	TANK	BLOWIND	OFF GA
390	CO2 Storage Tank Pressure (Normal Range = 220			
<u>8,300</u>	CO2 Storage Liquid Level (Normal Range = 2,000 - *Note: call for refill @ 2,000 - 3,000lbs	12,000lbs	Now AT	255.
-	P1 Running Status (on/off)			
	T3 Water Elevation			
***************************************	T3 pH			
-	T3 Temperature			
	P4A Running Status (on/off)			
-	P4A Pressure Gauge (normal range = 10psi)			
	T6 Water Elevation			
·	P4B Running Status (on/off)			
-	T7 Water Elevation			
[P7 Running Status (on/off)			
	date: 6/2/05 personnel: A (445	7		

K. System down installing analog input board.

AIRCO PARCEL GROUNDWATER COLLECTION AND TREATMENT SYSTEM NIAGARA FALLS, NEW YORK

FIELD SAMPLING REPORT FORM

6,177	P4A Hexavalent, Chromium Concentration (mg/L)	<u>Standard</u> (0.011 mg/L
0,202	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
0.000	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0.001	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u> </u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
0	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
Date:	6/21/05	
Personnel:	6/21/05 R.LASEY	