MACTEC

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March 26, 2008

Mr. David P. Locey
New York State Department of Environmental Conservation
Region 9
270 Michigan Ave
Buffalo, New York 14203-2999

Subject: **Groundwater Monitoring & Closure Evaluation Report**
Buffalo Outer Harbor Site - Radio Tower Area
NYSDEC Site No. 915026
Erie County
Buffalo, New York

Dear Mr. Locey:

On behalf of Honeywell International Inc. ("Honeywell"), MACTEC Engineering and Consulting, Inc. ("MACTEC") has prepared this Groundwater Monitoring & Closure Evaluation Report to document semi-annual groundwater monitoring activities and evaluate closure for the Buffalo Outer Harbor Site – Radio Tower Area ("Site") located in Buffalo, New York.

1.0 BACKGROUND

The Outer Harbor Site is a 110-acre Site located approximately one mile south of downtown Buffalo, New York. The Radio Tower Area is a portion of the Outer Harbor Site where land disposal and fill placement formerly occurred. A Record of Decision ("ROD") was issued by the New York State Department of Environmental Conservation ("NYSDEC") for the entire Outer Harbor Site in March 2002.

Remedial action at the Radio Tower Area, a 0.9-acre area located within the Outer Harbor Site, consisted of stabilization and in-place capping of certain of the waste/fill material. The cap is a soil cover system that reportedly is 24 inches thick and consists of a bottom geotextile liner overlain by

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20 inches of clean fill and 4 inches of topsoil. Vegetation was established over the capped area via seeding with local grasses. The Site remediation activities were documented in a Remedial Action Completion Report (August 17, 2005), which was approved by NYSDEC in a letter dated November 22, 2005. Institutional controls consisting of land use covenants and restrictions were also implemented, including the requirement for inspection and annual mowing of the capped area, as specified in Section 6.0 of the Site Management Plan prepared for Honeywell by Remedial Engineering, P.C. (August 17, 2005). There are six groundwater monitoring wells (GW-18R, GW-19, GW-20, GW-21, GW-22, and GW-23) located adjacent to the capped area. A Site Plan is attached which shows the property boundaries, monitoring well locations, and other Site details.

In its November 22, 2005 letter approving the Remedial Action Completion Report, NYSDEC specified that groundwater samples were to be collected and analyzed from the Radio Tower area monitoring wells on a quarterly basis for one year and on a semi-annual basis for the following year. MACTEC completed the quarterly groundwater monitoring events in 2005 and 2006 and documented the results in a letter report to NYSDEC dated October 4, 2006. As described in the 2006 letter report, nitrobenzene (the organic constituent of concern {COC})was not detected in any quarterly groundwater sample. The reported concentrations for various metals in the quarterly groundwater samples exceeded the NY Class GA groundwater standards. The metals results were consistent with previous Outer Harbor data presented in the ROD, which concluded that the metals concentrations in groundwater may be attributable to "general groundwater quality in the vicinity of the Site".

2.0 SEMI-ANNUAL GROUNDWATER MONITORING (2006-2007)

MACTEC completed semi-annual groundwater sampling events at the Site in December 2006 and June 2007. The following describes that sampling and testing methods, quality control procedures, and summary of results for the two sampling events.

2.1 Groundwater Sampling and Testing Methods

The December 2006 and June 2007 groundwater sampling events were completed in accordance with the Operation, Maintenance and Monitoring ("OM&M") requirements specified in the Remedial Action Completion Report. During each sampling event, MACTEC collected groundwater samples from the five monitoring wells located closest to the capped area: GW-18R, GW-19, GW-21, GW-22 and GW-23. The attached Site Plan identifies the monitoring well locations.

MACTEC used dedicated disposable bailers to purge three well volumes of groundwater (or until the well was dry if this occurred prior to removal of three well volumes) from each well before sampling. Prior to purging each monitoring well, MACTEC recorded the water level relative to the top of the well riser (or other reference point, if appropriate) with an electronic water level meter. Groundwater parameters such as pH, conductivity, temperature, and turbidity were measured periodically during the groundwater purging process to verify that the parameters were stable prior to sample collection. Once purging was complete, the wells were allowed to recharge before sample collection.

Each groundwater sample was submitted to Severn Trent Laboratories ("STL") of Buffalo, New York for analysis of nitrobenzene via United States Environmental Protection Agency ("USEPA") Method 8270 and Target Analyte List ("TAL") metals by USEPA Method 6000-7000 series. The disposable bailers were used to collect the sample aliquots from the upper portion of the groundwater within the well to avoid disturbance of bottom sediments and minimize turbidity. The samples were not filtered prior to metals analyses by the laboratory.

The groundwater samples were labeled, logged on a chain-of-custody form, and placed in an ice-chilled cooler for shipment to the analytical laboratory. Copies of the completed chain of custody documentation are included with the final analytical data reports provided in Attachment A. Purge water was discharged to the ground surface at each well location. The water was discharged in a controlled fashion to promote infiltration and prevent surface runoff.

2.2 Quality Control

Quality control ("QC") procedures were utilized throughout the project. Use of disposable sampling equipment and decontamination of non-disposable equipment was completed to minimize the potential for cross-contamination.

During the semi-annual groundwater sampling events, QC samples consisting of duplicates, matrix spikes, and matrix spike duplicates were collected, as specified in the OM&M plan. The duplicate groundwater samples were collected from well GW-23 during the December 2006 sampling event and from well GW-18 during the June 2007 sampling event. The QC samples were analyzed for the same constituents by the same test methods as the groundwater samples. The analytical results for the QC samples are included in the laboratory reports provided as Attachment A.

MACTEC completed data validation for the groundwater sample analytical results in accordance with Honeywell requirements. Copies of the MACTEC data validation reports are provided in Attachment B. Minor data quality issues were identified in both the laboratory reports and during the data validation process. However, no significant QC concerns were noted and, therefore, the analytical data is considered reliable.

2.3 Results of Semi-Annual Groundwater Monitoring

"Depth to groundwater" measurements made during the two semi-annual sampling events are summarized on Table 1. In general, the groundwater flow direction within the monitored area during the two semi-annual monitoring events was to the southeast.

The analytical results for the semi-annual groundwater samples are summarized on Table 2 and copies of the laboratory reports are provided as Attachment A. The NY groundwater standards for Class GA aquifers (6 NYCRR Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations) are included on Table 2 for comparison.

As shown on Table 2, the reported concentrations for various metals exceeded the NY groundwater standards in the semi-annual samples. The metals results are consistent with previous Outer

Harbor data for the 2005-2006 quarterly groundwater monitoring events which are also summarized in Table 2, and prior groundwater data presented in the ROD. It was concluded in the ROD that the metals concentrations in groundwater may be attributable to "general groundwater quality in the vicinity of the Site". Nitrobenzene, the organic COC at the Site, was not detected in the groundwater samples; the laboratory detection limit for nitrobenzene for the semi-annual monitoring events was 0.5 micrograms per liter (µg/l).

2.4 Inspection of Cap

As required in Section 6.0 of the Site Management Plan (Remedial Engineering, 2005), which was incorporated as part of the Remedial Action Completion Report, the capped area was inspected by MACTEC during the June 2007 groundwater monitoring event for the presence of uneven settling or other conditions that could compromise the integrity of the cover system. No settling or other damage to the integrity of the cover system was observed.

3.0 CLOSURE EVALUATION

As shown on Table 2, nitrobenzene (the only organic COC) was not detected in any of the quarterly or semi-annual groundwater monitoring samples. Various metals were identified in the groundwater samples collected during all sampling events at levels that exceeded NY Class GA standards. However, as concluded previously in the ROD, the metals concentrations in groundwater may be attributable to "general groundwater quality in the vicinity of the Site", and groundwater sample analyses support this conclusion. Furthermore, the covenants and restrictions prohibit use of Site groundwater as a source of drinking water and limit the future Site use to commercial or industrial purposes. For these reasons, it is concluded that there are no exposure pathways associated with the stabilized waste material present under this capped/remediated Site. Thus, Site closure is complete and, provided that the cover system is maintained, no further groundwater monitoring is necessary for the Site.

Honeywell will continue to mow, inspect, and maintain the capped area on at least an annual basis as required under Section 6.0 of the Site Management Plan (Remedial Engineering, 2005). Honeywell will repair any observed damage to the cover system due to erosion, sloughing, animal burrows, etc.

Should you have any questions regarding this submittal or require additional information, please contact John Scrabis at (412) 279-6661 or jmscrabis@mactec.com.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Wayne K. Swinehart Jr.
Project Scientist

John M. Scrabis
Senior Principal Engineer

Attachments

cc: J. Morris (Honeywell)
M. Doster (NYSDEC)
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D. Flynn, Esq. (Phillips Lytle)
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P:\PROJECTS\Honeywell\Buffalo NY\Outer Harbor\WORK\GW Monitoring & Closure Evaluation Report (March 2008)\GW Monitoring Letter Report (March 2008).doc

TABLES

Table 1
Summary of Depth to Water Measurements

Honeywell - Buffalo Outer Harbor
Buffalo, New York
Project # 3410050323

		9/15/2005		12/5/2005		3/9/2006		6/13/2006		6/27/2007		12/28/2007	
Well ID	Top of PVC	Depth to Water (ft.)	Elevation (ft-msl)	Depth to Water (ft.)	Elevation (ft-msl)	Depth to Water (ft.)	Elevation (ft-msl)	Depth to Water (ft.)	Elevation (ft-msl)	Depth to Water (ft.)	Elevation (ft-msl)	Depth to Water (ft.)	Elevation (ft-msl)
GW-18R	N/A	10.33	-	6.25		7.06	-	9.00	-	9.09	-	5.97	-
GW-19	587.20	13.99	573.21	5.73	581.47	6.95	580.25	9.07	578.13	11.91	575.29	5.67	581.53
GW-21	586.61	8.31	578.30	4.22	582.39	4.97	581.64	8.20	578.41	7.20	579.41	4.07	582.54
GW-22	585.82	9.13	576.69	2.90	582.92	3.05	582.77	7.11	578.71	7.22	578.60	2.72	583.10
GW-23	586.00	12.24	573.76	6.18	579.82	7.17	578.83	9.30	576.70	9.79	576.21	5.58	580.42

Notes:
1) Water level measurements are in units of feet above mean sea level (ft-msl)
2) N/A = elevation of top of PVC casing not established

Table 2
Summary of Analytical Results

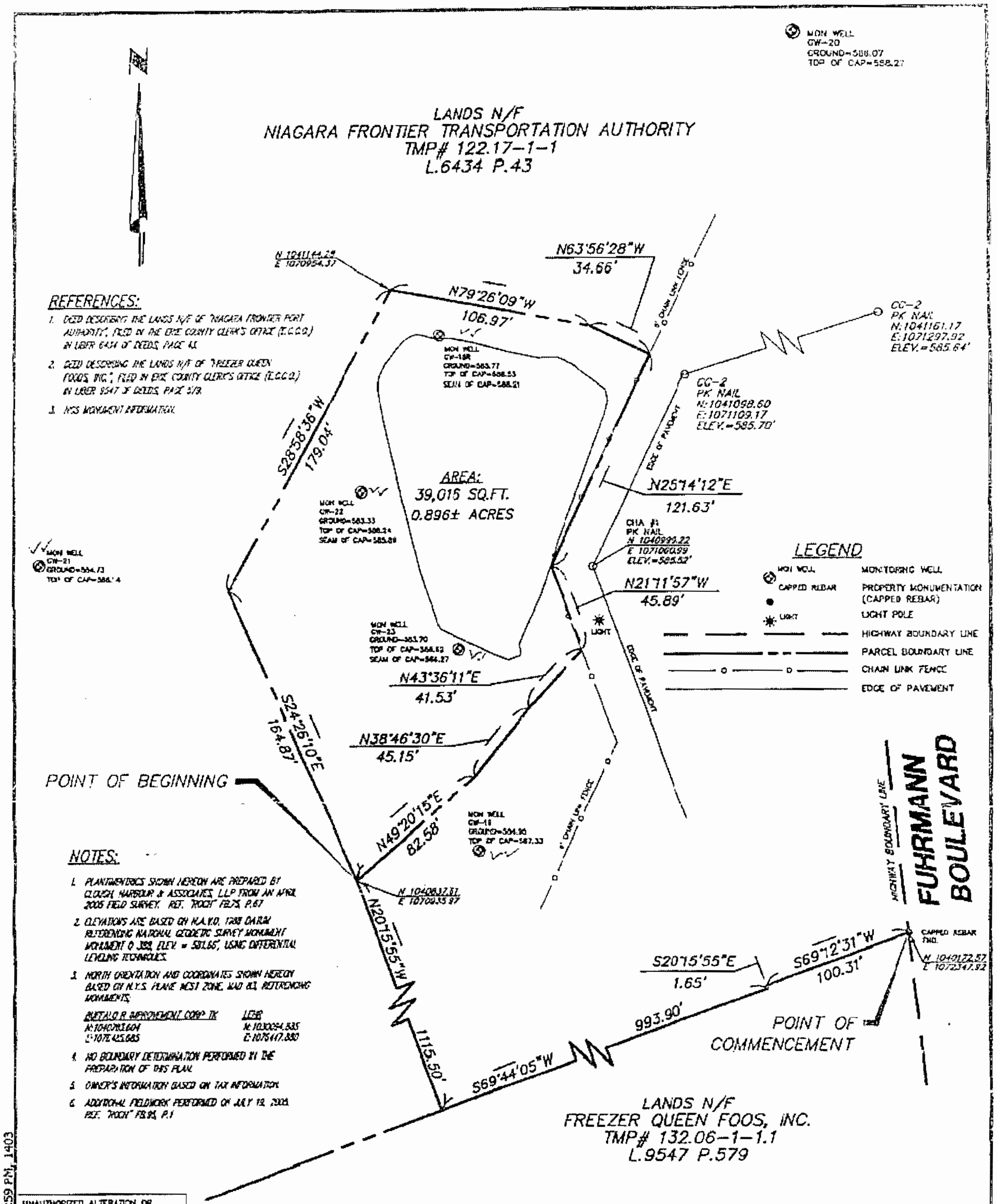
Honeywell - Buffalo Outer Harbor
Buffalo, New York
Project # 3410050323

Parameter	Units	NY-CLASS GA Standards [3]	GW-18R-0905 [1] 9/15/2005	GW-18R-1205 [2] 12/5/2005	GW-18R-0306 3/9/2006	GW-18R-0606 6/1/2006	GW-18R-1206 12/1/2006	GW-18R-0607 06/27/2007	GW-18RR-0607 06/27/2007	GW-19-0905 9/15/2005	GW-19-1205 12/5/2005	GW-19D-1205 12/5/2005	GW-19-0306 3/9/2006	GW-19-0606 6/1/2006	GW-19D-0606 6/1/2006	GW-19-1206 12/1/2006	GW-19-0607 6/27/2007	GW-21-0905 9/15/2005	GW-21-1205 12/5/2005	GW-21-0306 3/9/2006	GW-21-0606 6/1/2006	GW-21-1206 12/1/2006	GW-21-0607 6/27/2007	GW-22-0905 9/15/2005	GW-22-1205 12/5/2005	GW-22-0306 3/9/2006	GW-22D-0306 3/9/2006	GW-22-0606 6/1/2006	GW-22-1206 12/1/2006	GW-22-0607 6/27/2007	GW-23-0905 9/15/2005	GW-23D-0905 9/15/2005	MW-23-1205 12/5/2005	GW-23-0306 3/9/2006	GW-23-0606 6/1/2006	GW-23-1206 D 12/1/2006	GW-23-1206 12/1/2006	GW-23-0607 6/27/2007
ALUMINUM	mg/l	null	<0.2	1.9J [4,5]	14.9J	15.1J	9.8	6.1	4.8	0.68	2.2J	1.3J	1.95J	7.4J	8.6J	1.6	1.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	3.9J	8.56J	5.77J	7.3J	4.9	11	<0.2	<0.2	<0.2	1.78J	1.3J	2	8	<0.2
ANTIMONY	mg/l	0.003	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0409	0.044	0.1	0.28	0.0543
ARSENIC	mg/l	0.025	<0.01	0.021	0.041	0.038	0.025	0.020	0.019	0.028	<0.01	<0.01	<0.01	0.026	0.025	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.013	0.014	0.019	0.0168	0.048	<0.01	0.022	<0.01
BARIUM	mg/l	1	0.078	0.12	0.262	0.22	0.18	0.14	0.13	0.012	0.038	0.035	0.0328	0.073	0.077	0.02	0.021	0.032	0.046	0.0402	0.033	0.031	0.031	0.14	0.16	0.213	0.181	0.24	0.16	0.22	0.28	0.27	0.27	0.306	0.36	0.21	0.38	0.2
BERYLLIUM	mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	mg/l	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021	0.0098	<0.001
CALCIUM	mg/l	null	239	323	303	90	296	273	273	18.1	91.8	109	78.2	52.7	53.4	72.6	36.9	30.2	42.6	32.6	29.6	30.4	29	218	409	309	296	269	314	320	210	202	247	230	236	210	263	202
CHROMIUM	mg/l	0.05	<0.004	<0.004	0.0217	0.026	0.016	0.011	0.008	<0.004	0.047	0.041	0.0364	0.039	0.036	0.029	0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.008	0.0175	0.0116	0.014	0.0093	0.027	<0.004	<0.004	<0.004	0.0072	0.0042	0.0068	0.028	<0.004
COBALT	mg/l	null	<0.004	<0.004	0.0083	0.0087	0.0061	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0052	0.0056	<0.004	0.0051	0.0048	0.0073	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.012	<0.004
COPPER	mg/l	0.2	<0.01	0.011	0.0321	0.035	0.025	0.016	0.013	0.02	0.013	<0.01	<0.01	0.028	0.03	<0.01	0.036	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.039	0.0654	0.047	0.042	0.037	0.038	<0.01	<0.01	0.011	0.0826	0.048	0.1	0.39	<0.01
IRON	mg/l	0.3	4.6J	2.4J	19.1J	24.4J	13.3	11.9	10	<0.05	1.4J	<0.05	0.656J	6.9J	8.5J	0.32	1	<0.05	0.086J	0.231J	0.46J	0.1	0.093	7.7J	11.1J	19.6J	14.9J	17.2J	9.8	22.4	0.1J	0.9	11J	12.4J	17.8J	9	27.2	3.4
LEAD	mg/l	0.025	<0.005	0.024J	0.0957J	0.11	0.08	0.048	0.038	<0.005	0.011J	<0.005	<0.005	0.08	0.079	<0.005	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.074J	0.175J	0.107J	0.14	0.097	0.077	<0.005	<0.005	0.0078J	0.0091J	0.039	0.1	0.4	0.0064
MAGNESIUM	mg/l	35	40	53.6	55.8	54.9J	50.5	47.6	46.1	<0.2	1.4J	<0.2	0.7	4.5J	4.7J	0.34	1.4	1.2	4.2J	5.26	6.6J	3.5	3.7	75	127J	83.9	79.1	76.7J	95.6	113	92.9	86.1	35.1J	57.6	34.6J	32.4	46.2	37.7
MANGANESE	mg/l	0.3	0.64	0.99J	1.22	1.4J	1.2	0.98	0.9	<0.003	0.035J	<0.003	0.0177	0.2J	0.2J	0.0093	0.031	<0.003	0.0037J	0.0068	0.011J	0.003	0.0036	0.47	1.6J	1.16	1.05	1J	1.3	1.4	0.88	0.94	1.4J	0.972	0.64J	0.82	1.3	0.75
MERCURY	mg/l	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00035	0.00086	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00036	<0.0002
NICKEL	mg/l	null	<0.01	<0.015	0.0208	0.022	0.015	0.01	<0.001	0.015	<0.01	<0.01	<0.01	0.016	0.018	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.0196	0.0148	0.015	0.017	0.023	<0.01	<0.01	<0.01	<0.01	0.025	0.01	0.035	<0.01
POTASSIUM	mg/l	null	24	20.5	20.7	26.8	33.3	29.1	29.5	513	257	176	294	514	517	316	667	18.9	20.8	15.7	16.9	15.2	15.6	24	52.5	38.3	37.6	36.4	48.8	44.4	31.7	30.8	73.1	61.3	88	64.1	65.6	67.9
SELENIUM	mg/l	0.01	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.017	<0.015	<0.015	0.015	0.015	<0.015	0.016	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.016	<0.15
SILVER	mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
SODIUM	mg/l	20	22.3	19.3J	18.2	19.8	19.2	18.8	19.1	49.5	20.1J	12.2J	20.1	46.1	45.4	24.2	57.8	13	14.1J	10.9	11.2	9.5	10.5	44.4	94.5J	60.9	60.4	51	72.6	68.8	51.9	49.2	26.9J	38.3	33.9	21.7	22	29.4
THALLIUM	mg/l	0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.20
VANADIUM	mg/l	null	<0.005	0.0074	0.034	0.032	0.021	0.014	0.012	0.037	0.018	0.013	0.0164	0.055	0.056	0.018	0.052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0072	0.016	0.0102	0.014	0.0087	0.024	<0.005	<0.005	<0.005	0.005	0.0052	0.0061	0.022	<0.005
ZINC	mg/l	2	<0.02	0.55	0.362J	0.41	0.54	0.29	0.25	<0.02	0.02	<0.02	0.0162J	0.1	0.11	<0.01	0.039	<0.02	<0.02	0.013J	0.018	0.038	0.014	<0.02	0.094	0.187J	0.125J	0.14	0.1	0.19	<0.02	<0.02	<0.02	0.163J	0.058	0.78	2.5	0.027
NITROBENZENE	ug/l	0.4	<9*	<10*	<10*	<10*	<0.5	<0.5	<0.5	<10*	<10*	<10*	<10*	<10*	<10*	<0.5	<0.5	<10*	<10*	<10*	<10*	<0.5	<0.5	<12*	<10*	<10*	<10*	<10*	<0.5	<0.5	<10*	<10*	<10*	<10*	<9*	<0.5	<0.5	<0.5

Notes:
1) All Metals are Total Metals except sampling event September 2005, for which Turbidity below 50 could not be reached and therafore samples were filtered and analyzed for Dissolved Metals
2) During December 2005 sampling event, sample IDs for wells labeled "GW" were recorded on the chain of custody and used in the analytical report for the sampling event as "MW"
3) New York standards for groundwater
4) Bold indicates analyte detected in sample
5) J - Indicates estimated result. Result is less than laboratory reporting limit.
6) Shading indicatas result exceeds NY-CLASS GA standard
*The laboratory's method detection limit for nitrobenzene WASs 0.53 ug/L

Created by: WKS
Checked by: JMS

FIGURE



REFERENCES:

1. DEED DESCRIBING THE LANDS N/F OF "NIAGARA FRONTIER PORT AUTHORITY", FILED IN THE ERIE COUNTY CLERK'S OFFICE (E.C.C.O.) IN LIBER 6434 OF DEEDS, PAGE 43.
2. DEED DESCRIBING THE LANDS N/F OF "FREEZER QUEEN FOODS, INC.", FILED IN ERIE COUNTY CLERK'S OFFICE (E.C.C.O.) IN LIBER 9547 OF DEEDS, PAGE 579.
3. NGS MONUMENT INFORMATION.

NOTES:

1. PLANIMETRICS SHOWN HEREON ARE PREPARED BY CLOUGH, HARBOUR & ASSOCIATES, LLP FROM AN APRIL 2005 FIELD SURVEY. REF. "ROCH" FB.75, P.67
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM REFERENCING NATIONAL GEODETIC SURVEY MONUMENT MONUMENT Q 302, ELEV. = 581.65', USING DIFFERENTIAL LEVELING TECHNIQUES.
3. NORTH ORIENTATION AND COORDINATES SHOWN HEREON BASED ON N.Y.S. PLANE WEST ZONE, NAD 83, REFERENCING MONUMENTS.

   BUFFALO R IMPROVEMENT CORP TK — N:1040783.604, E:1072425.685
   LEHR — N:1030394.535, E:1075417.850
4. NO BOUNDARY DETERMINATION PERFORMED IN THE PREPARATION OF THIS PLAN.
5. OWNER'S INFORMATION BASED ON TAX INFORMATION.
6. ADDITIONAL FIELDWORK PERFORMED ON JULY 19, 2005 REF. "ROCH" FB.95, P.1

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE VALID COPIES. CERTIFICATES INDICATED OR IMPLIED HEREON SHALL RUN ONLY TO THE PARTY FOR WHOM THE SURVEY IS PREPARED, AND ON THEIR BEHALF TO THE ADDITIONAL PARTIES LISTED HEREON. CERTIFICATES ARE NOT TRANSFERABLE TO ADDITIONAL PARTIES, OR SUBSEQUENT OWNERS, NOT LISTED HEREON.

GRAPHIC SCALE

50 0 25 50 100

1 inch = 50 ft.

I HEREBY CERTIFY THAT THIS PLAN WAS COMPLETED ON JUNE 21 2005 USING LISTED REFERENCES AND FIELD NOTES FROM AN ACTUAL FIELD SURVEY COMPLETED ON JULY 19, 2005.

7/22/05

DAVID L. STANDINGER NYSPLS #050107 DATE

STATE OF NEW YORK · DAVID L. STANDINGER · 050107 · LICENSED LAND SURVEYOR

CLOUGH HARBOUR & ASSOCIATES LLP
Powers Building, 16 Main Street West, Suite 830, Rochester, NY 14614-1807
PHONE (585) 262-2640
FAX (585) 262-2642
www.cloughharbour.com

Plan showing
INSTITUTIONAL CONTROL AREA
being a portion of property N/F
NIAGARA FRONTIER TRANSPORTATION AUTHORITY
City of Buffalo County of Erie State of New York

Revisions	Drawn By	App'd. By	Date
0. MAP ISSUED	DJH	DLS	XX/XX/XX

David L. Standinger NYSPLS # 050107

Scale: 1"=50' | Date: JULY, 2005 | Sheet 1 OF 1

Dwg: I:\13258\survey\acad\VBASE-132582000.dwg Xref: NONE Dview: NONE CHA Project Number: 13258

I:\13258\survey\acad\VBASE-132582000.dwg; 7/22/2005 4:00:59 PM, 1403

ATTACHMENT A

ANALYTICAL LABORATORY REPORTS

STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A07-7273

Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor
Task: Buffalo Outer Harbor

Mr. John Scrabis
MACTEC Engineering&Consulting
700 North Bell Ave. Ste. 200
Carnegie, PA 15106

STL Buffalo

Brian J. Fischer
Project Manager

07/11/2007

STL Buffalo
Current Certifications

As of 5/16/2007

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A7727301	GW-18R-0607	WATER	06/27/2007	13:30	06/28/2007	12:40
A7727302	GW-18RR-0607	WATER	06/27/2007	13:30	06/28/2007	12:40
A7727306	GW-19-0607	WATER	06/27/2007	14:25	06/28/2007	12:40
A7727304	GW-21-0607	WATER	06/27/2007	14:00	06/28/2007	12:40
A7727303	GW-22-0607	WATER	06/27/2007	13:45	06/28/2007	12:40
A7727303MS	GW-22-0607	WATER	06/27/2007	13:45	06/28/2007	12:40
A7727303SD	GW-22-0607	WATER	06/27/2007	13:45	06/28/2007	12:40
A7727305	GW-23-0607	WATER	06/27/2007	14:15	06/28/2007	12:40

METHODS SUMMARY

Job#: A07-7273

Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor

PARAMETER	ANALYTICAL METHOD
8270 LOW - NITROBENZENE	SW8463 8270LOW
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7470
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

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

SDG NARRATIVE

Job#: A07-7273

Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor

General Comments

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

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

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

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

Sample Receipt Comments

A07-7273
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The recoveries of sample GW-22-0607 Matrix Spike exhibited results below the quality control limits for Calcium. The sample result is more than four times greater than the spike added. The LFB (A7B1036802) is acceptable.

****

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GW-19-0607	A7727306	Potassium - Total	5.00	008

lution Code Definition:

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

STL

DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

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

INORGANIC DATA QUALIFIERS

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

Client ID		GW-18R-0607		GW-18RR-0607		GW-19-0607		GW-21-0607	
Job No / Lab ID		A07-7273	A7727301	A07-7273	A7727302	A07-7273	A7727306	A07-7273	A7727304
Sample Date		06/27/2007		06/27/2007		06/27/2007		06/27/2007	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	99	50-200	105	50-200	101	50-200	108	50-200
Naphthalene-D8	%	108	50-200	110	50-200	105	50-200	111	50-200
Acenaphthene-D10	%	111	50-200	114	50-200	109	50-200	119	50-200
Phenanthrene-D10	%	112	50-200	114	50-200	112	50-200	120	50-200
Chrysene-D12	%	110	50-200	109	50-200	107	50-200	116	50-200
Perylene-D12	%	122	50-200	129	50-200	124	50-200	134	50-200
Nitrobenzene-D5	%	53	34-132	56	34-132	61	34-132	57	34-132
2-Fluorobiphenyl	%	58	37-120	67	37-120	67	37-120	63	37-120
p-Terphenyl-d14	%	69	58-147	74	58-147	76	58-147	79	58-147
2-Fluorophenol	%	35	18-120	38	18-120	40	18-120	35	18-120
Phenol-D5	%	24	11-120	26	11-120	28	11-120	26	11-120
2,4,6-Tribromophenol	%	72	39-146	86	39-146	96	39-146	97	39-146

Client ID		GW-22-0607		GW-23-0607					
Job No / Lab ID		A07-7273	A7727303	A07-7273	A7727305				
Sample Date		06/27/2007		06/27/2007					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	ND	0.5	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	99	50-200	99	50-200	NA		NA	
Naphthalene-D8	%	106	50-200	105	50-200	NA		NA	
Acenaphthene-D10	%	113	50-200	112	50-200	NA		NA	
Phenanthrene-D10	%	116	50-200	110	50-200	NA		NA	
Chrysene-D12	%	112	50-200	107	50-200	NA		NA	
Perylene-D12	%	129	50-200	125	50-200	NA		NA	
Nitrobenzene-D5	%	60	34-132	54	34-132	NA		NA	
2-Fluorobiphenyl	%	65	37-120	58	37-120	NA		NA	
p-Terphenyl-d14	%	76	58-147	75	58-147	NA		NA	
2-Fluorophenol	%	40	18-120	35	18-120	NA		NA	
Phenol-D5	%	28	11-120	25	11-120	NA		NA	
2,4,6-Tribromophenol	%	92	39-146	92	39-146	NA		NA	

8/30

NA = Not Applicable ND = Not Detected

Client ID		GW-18R-0607		GW-18RR-0607		GW-19-0607		GW-21-0607	
Job No	Lab ID	A07-7273	A7727301	A07-7273	A7727302	A07-7273	A7727306	A07-7273	A7727304
Sample Date		06/27/2007		06/27/2007		06/27/2007		06/27/2007	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	6.1	0.20	4.8	0.20	1.2	0.20	ND	0.20
Antimony - Total	MG/L	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Arsenic - Total	MG/L	0.020	0.010	0.019	0.010	0.030	0.010	ND	0.010
Barium - Total	MG/L	0.14	0.0020	0.13	0.0020	0.021	0.0020	0.031	0.0020
Beryllium - Total	MG/L	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Cadmium - Total	MG/L	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Calcium - Total	MG/L	273	0.50	273	0.50	36.9	0.50	29.0	0.50
Chromium - Total	MG/L	0.011	0.0040	0.0080	0.0040	0.016	0.0040	ND	0.0040
Cobalt - Total	MG/L	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040
Copper - Total	MG/L	0.016	0.010	0.013	0.010	0.036	0.010	ND	0.010
Iron - Total	MG/L	11.9	0.050	10	0.050	1.0	0.050	0.093	0.050
Lead - Total	MG/L	0.046	0.0050	0.038	0.0050	0.026	0.0050	ND	0.0050
Magnesium - Total	MG/L	47.6	0.20	46.1	0.20	1.4	0.20	3.7	0.20
Manganese - Total	MG/L	0.98	0.0030	0.90	0.0030	0.031	0.0030	0.0036	0.0030
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020
Nickel - Total	MG/L	0.010	0.010	ND	0.010	0.013	0.010	ND	0.010
Potassium - Total	MG/L	29.1	0.50	29.5	0.50	677	2.5	15.6	0.50
Selenium - Total	MG/L	ND	0.015	ND	0.015	0.016	0.015	ND	0.015
Silver - Total	MG/L	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030
Sodium - Total	MG/L	18.8	1.0	19.1	1.0	57.8	1.0	10.5	1.0
Thallium - Total	MG/L	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Vanadium - Total	MG/L	0.014	0.0050	0.012	0.0050	0.052	0.0050	ND	0.0050
Zinc - Total	MG/L	0.29	0.010	0.25	0.010	0.039	0.010	0.014	0.010

9/30

NA = Not Applicable ND = Not Detected

Client ID		GW-22-0607		GW-23-0607					
Job No	Lab ID	A07-7273	A7727303	A07-7273	A7727305				
Sample Date		06/27/2007		06/27/2007					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	11.0	0.20	ND	0.20	NA		NA	
Antimony - Total	MG/L	ND	0.020	0.054	0.020	NA		NA	
Arsenic - Total	MG/L	0.011	0.010	ND	0.010	NA		NA	
Barium - Total	MG/L	0.22	0.0020	0.20	0.0020	NA		NA	
Beryllium - Total	MG/L	ND	0.0020	ND	0.0020	NA		NA	
Cadmium - Total	MG/L	ND	0.0010	ND	0.0010	NA		NA	
Calcium - Total	MG/L	320	0.50	202	0.50	NA		NA	
Chromium - Total	MG/L	0.027	0.0040	ND	0.0040	NA		NA	
Cobalt - Total	MG/L	0.0073	0.0040	ND	0.0040	NA		NA	
Copper - Total	MG/L	0.038	0.010	ND	0.010	NA		NA	
Iron - Total	MG/L	22.4	0.050	3.4	0.050	NA		NA	
Lead - Total	MG/L	0.077	0.0050	0.0064	0.0050	NA		NA	
Magnesium - Total	MG/L	113	0.20	37.7	0.20	NA		NA	
Manganese - Total	MG/L	1.4	0.0030	0.75	0.0030	NA		NA	
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	NA		NA	
Nickel - Total	MG/L	0.023	0.010	ND	0.010	NA		NA	
Potassium - Total	MG/L	44.4	0.50	67.9	0.50	NA		NA	
Selenium - Total	MG/L	ND	0.015	ND	0.015	NA		NA	
Silver - Total	MG/L	ND	0.0030	ND	0.0030	NA		NA	
Sodium - Total	MG/L	68.8	1.0	29.4	1.0	NA		NA	
Thallium - Total	MG/L	ND	0.020	ND	0.020	NA		NA	
Vanadium - Total	MG/L	0.024	0.0050	ND	0.0050	NA		NA	
Zinc - Total	MG/L	0.19	0.010	0.027	0.010	NA		NA	

10/30

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		SBLK							
Job No	Lab ID	A07-7273	A7B1019602						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	NA		NA		NA	
=IS/SURROGATE(S)=									
1,4-Dichlorobenzene-D4	%	103	50-200	NA		NA		NA	
Naphthalene-D8	%	108	50-200	NA		NA		NA	
Acenaphthene-D10	%	109	50-200	NA		NA		NA	
Phenanthrene-D10	%	112	50-200	NA		NA		NA	
Chrysene-D12	%	112	50-200	NA		NA		NA	
Perylene-D12	%	118	50-200	NA		NA		NA	
Nitrobenzene-D5	%	56	34-132	NA		NA		NA	
2-Fluorobiphenyl	%	61	37-120	NA		NA		NA	
p-Terphenyl-d14	%	86	58-147	NA		NA		NA	
2-Fluorophenol	%	37	18-120	NA		NA		NA	
Phenol-D5	%	24	11-120	NA		NA		NA	
2,4,6-Tribromophenol	%	72	39-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		GW-22-0607		GW-22-0607		Matrix Spike Blank			
Job No	Lab ID	A07-7273	A7727303MS	A07-7273	A7727303SD	A07-7273	A7B1019601		
Sample Date		06/27/2007		06/27/2007					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	7	0.5	6	0.5	6	0.5	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	114	50-200	104	50-200	110	50-200	NA	
Naphthalene-D8	%	118	50-200	110	50-200	112	50-200	NA	
Acenaphthene-D10	%	125	50-200	116	50-200	115	50-200	NA	
Phenanthrene-D10	%	126	50-200	118	50-200	114	50-200	NA	
Chrysene-D12	%	118	50-200	115	50-200	115	50-200	NA	
Perylene-D12	%	139	50-200	136	50-200	124	50-200	NA	
Nitrobenzene-D5	%	61	34-132	58	34-132	58	34-132	NA	
2-Fluorobiphenyl	%	66	37-120	65	37-120	59	37-120	NA	
p-Terphenyl-d14	%	72	58-147	77	58-147	83	58-147	NA	
2-Fluorophenol	%	37	18-120	35	18-120	36	18-120	NA	
Phenol-D5	%	27	11-120	25	11-120	25	11-120	NA	
2,4,6-Tribromophenol	%	89	39-146	95	39-146	78	39-146	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A07-7273 A7B1036802		Method Blank A07-7273 A7B1039702					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	ND	0.20	NA		NA		NA	
Calcium - Total	MG/L	ND	0.50	NA		NA		NA	
Iron - Total	MG/L	ND	0.050	NA		NA		NA	
Manganese - Total	MG/L	ND	0.0030	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Vanadium - Total	MG/L	ND	0.0050	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Barium - Total	MG/L	ND	0.0020	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Cobalt - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Magnesium - Total	MG/L	ND	0.20	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	
Nickel - Total	MG/L	ND	0.010	NA		NA		NA	
Potassium - Total	MG/L	ND	0.50	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Sodium - Total	MG/L	ND	1.0	NA		NA		NA	
Thallium - Total	MG/L	ND	0.020	NA		NA		NA	
Zinc - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	GW-22-0607 A07-7273 06/27/2007	A7727303MS	GW-22-0607 A07-7273 06/27/2007	A7727303SD	LCS A07-7273	A7B1039701	LFB A07-7273	A7B1036801
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	21.0	0.20	20.5	0.20	NA		10.2	0.20
Antimony - Total	MG/L	0.21	0.020	0.21	0.020	NA		0.20	0.020
Arsenic - Total	MG/L	0.20	0.010	0.21	0.010	NA		0.20	0.010
Barium - Total	MG/L	0.41	0.0020	0.41	0.0020	NA		0.20	0.0020
Beryllium - Total	MG/L	0.20	0.0020	0.21	0.0020	NA		0.21	0.0020
Cadmium - Total	MG/L	0.19	0.0010	0.19	0.0010	NA		0.19	0.0010
Calcium - Total	MG/L	327	0.50	328	0.50	NA		10.1	0.50
Chromium - Total	MG/L	0.21	0.0040	0.21	0.0040	NA		0.19	0.0040
Cobalt - Total	MG/L	0.19	0.0040	0.19	0.0040	NA		0.19	0.0040
Copper - Total	MG/L	0.25	0.010	0.25	0.010	NA		0.21	0.010
Iron - Total	MG/L	31.4	0.050	30.4	0.050	NA		9.9	0.050
Lead - Total	MG/L	0.27	0.0050	0.27	0.0050	NA		0.20	0.0050
Magnesium - Total	MG/L	122	0.20	122	0.20	NA		10	0.20
Manganese - Total	MG/L	1.6	0.0030	1.6	0.0030	NA		0.20	0.0030
Mercury - Total	MG/L	0.0064	0.00020	0.0065	0.00020	0.0033	0.00020	NA	
Nickel - Total	MG/L	0.21	0.010	0.21	0.010	NA		0.20	0.010
Potassium - Total	MG/L	53.8	0.50	53.8	0.50	NA		10.1	0.50
Selenium - Total	MG/L	0.20	0.015	0.20	0.015	NA		0.20	0.015
Silver - Total	MG/L	0.054	0.0030	0.054	0.0030	NA		0.052	0.0030
Sodium - Total	MG/L	78.9	1.0	79.4	1.0	NA		10.3	1.0
Thallium - Total	MG/L	0.19	0.020	0.19	0.020	NA		0.20	0.020
Vanadium - Total	MG/L	0.22	0.0050	0.22	0.0050	NA		0.20	0.0050
Zinc - Total	MG/L	0.38	0.010	0.38	0.010	NA		0.20	0.010

NA = Not Applicable ND = Not Detected

SAMPLE DATE 06/27/2007

Client Sample ID: GW-22-0607 GW-22-0607 GW-22-0607
Lab Sample ID: A7727303 A7727303MS A7727303SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
8270 LOW - NITROBENZENE												
Nitrobenzene	UG/L	0	6.6	6.0	10.0	9.7	66	62	64	6	24.0	42-131

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

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A7B1019602 A7B1019601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
8270 LOW - NITROBENZENE					
Nitrobenzene	UG/L	5.8	10	58	42-131

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

Client Sample ID: GW-22-0607 GW-22-0607 GW-22-0607
Lab Sample ID: A7727303 A7727303MS A7727303SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
MACTEC - TAL METALS (23) SW8463-6010/747												
TOTAL ALUMINUM	MG/L	11.03	20.99	20.54	10.0	10.0	100	95	98	5	20.0	75-125
TOTAL ANTIMONY	MG/L	0.0142	0.210	0.211	0.200	0.200	98	99	99	1	20.0	75-125
TOTAL ARSENIC	MG/L	0.0106	0.205	0.208	0.200	0.200	98	99	99	1	20.0	75-125
TOTAL BARIUM	MG/L	0.220	0.407	0.409	0.200	0.200	93	94	94	1	20.0	75-125
TOTAL BERYLLIUM	MG/L	0.00040	0.203	0.207	0.200	0.200	102	103	103	1	20.0	75-125
TOTAL CADMIUM	MG/L	0.00040	0.186	0.187	0.200	0.200	93	94	94	1	20.0	75-125
TOTAL CALCIUM	MG/L	320.4	327.0	328.0	10.0	10.0	66 *	76	71	14	20.0	75-125
TOTAL CHROMIUM	MG/L	0.0274	0.213	0.214	0.200	0.200	93	94	94	1	20.0	75-125
TOTAL COBALT	MG/L	0.00730	0.191	0.193	0.200	0.200	92	93	93	1	20.0	75-125
TOTAL COPPER	MG/L	0.0383	0.247	0.249	0.200	0.200	105	106	106	0.	20.0	75-125
TOTAL IRON	MG/L	22.44	31.44	30.36	10.0	10.0	90	79	85	13	20.0	75-125
TOTAL LEAD	MG/L	0.0774	0.268	0.267	0.200	0.200	95	95	95	0	20.0	75-125
TOTAL MAGNESIUM	MG/L	112.8	122.2	121.9	10.0	10.0	93	90	92	3	20.0	75-125
TOTAL MANGANESE	MG/L	1.44	1.63	1.63	0.200	0.200	94	95	95	1	20.0	75-125
TOTAL MERCURY	MG/L	0.00009	0.00643	0.00653	0.00666	0.00666	95	97	96	2	20.0	80-120
TOTAL NICKEL	MG/L	0.0226	0.212	0.214	0.200	0.200	95	96	96	1	20.0	75-125
TOTAL POTASSIUM	MG/L	44.44	53.77	53.77	10.0	10.0	93	93	93	0	20.0	75-125
TOTAL SELENIUM	MG/L	0.00150	0.201	0.201	0.200	0.200	100	100	100	0	20.0	75-125
TOTAL SILVER	MG/L	0.00030	0.0536	0.0536	0.0500	0.0500	107	107	107	0	20.0	75-125
TOTAL SODIUM	MG/L	68.76	78.86	79.43	10.0	10.0	101	107	104	6	20.0	75-125
TOTAL THALLIUM	MG/L	0.00120	0.186	0.188	0.200	0.200	92	94	93	2	20.0	75-125
TOTAL VANADIUM	MG/L	0.0240	0.218	0.219	0.200	0.200	97	98	98	1	20.0	75-125
TOTAL ZINC	MG/L	0.193	0.383	0.375	0.200	0.200	95	91	93	4	20.0	75-125

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

Client Sample ID: Method Blank LFB
Lab Sample ID: A7B1036802 A7B1036801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
MACTEC - TAL METALS (23) SW8463-6010/747					
TOTAL ALUMINUM	MG/L	10.22	10.0	102	80-120
TOTAL ANTIMONY	MG/L	0.196	0.200	97	80-120
TOTAL ARSENIC	MG/L	0.196	0.200	98	80-120
TOTAL BARIUM	MG/L	0.196	0.200	98	80-120
TOTAL BERYLLIUM	MG/L	0.206	0.200	103	80-120
TOTAL CADMIUM	MG/L	0.194	0.200	97	80-120
TOTAL CALCIUM	MG/L	10.11	10.0	100	80-120
TOTAL CHROMIUM	MG/L	0.192	0.200	96	80-120
TOTAL COBALT	MG/L	0.192	0.200	96	80-120
TOTAL COPPER	MG/L	0.210	0.200	104	80-120
TOTAL IRON	MG/L	9.92	10.0	99	80-120
TOTAL LEAD	MG/L	0.200	0.200	100	80-120
TOTAL MAGNESIUM	MG/L	9.95	10.0	99	80-120
TOTAL MANGANESE	MG/L	0.203	0.200	102	80-120
TOTAL NICKEL	MG/L	0.198	0.200	99	80-120
TOTAL POTASSIUM	MG/L	10.06	10.0	101	80-120
TOTAL SELENIUM	MG/L	0.205	0.200	102	80-120
TOTAL SILVER	MG/L	0.0517	0.0500	102	80-120
TOTAL SODIUM	MG/L	10.31	10.0	101	80-120
TOTAL THALLIUM	MG/L	0.195	0.200	97	80-120
TOTAL VANADIUM	MG/L	0.199	0.200	100	80-120
TOTAL ZINC	MG/L	0.201	0.200	100	80-120

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

Client Sample ID: Method Blank LCS
Lab Sample ID: A7B1039702 A7B1039701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
MACTEC - TAL METALS (23) SW8463-6010/747 TOTAL MERCURY	MG/L	0.00333	0.00333	100	80-120

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

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-18R-0607 A07-7273 A7727301	GW-18RR-0607 A07-7273 A7727302	GW-19-0607 A07-7273 A7727306	GW-21-0607 A07-7273 A7727304	GW-22-0607 A07-7273 A7727303
Sample Date	06/27/2007 13:30	06/27/2007 13:30	06/27/2007 14:25	06/27/2007 14:00	06/27/2007 13:45
Received Date	06/28/2007 12:40	06/28/2007 12:40	06/28/2007 12:40	06/28/2007 12:40	06/28/2007 12:40
Extraction Date	06/29/2007 07:00	06/29/2007 07:00	06/29/2007 07:00	06/29/2007 07:00	06/29/2007 07:00
Analysis Date	07/02/2007 11:41	07/02/2007 12:04	07/02/2007 14:20	07/02/2007 13:35	07/02/2007 12:26
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.02 LITERS	1.015 LITERS	0.99 LITERS	0.98 LITERS	0.995 LITERS
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-23-0607 A07-7273 A7727305				
Sample Date	06/27/2007 14:15				
Received Date	06/28/2007 12:40				
Extraction Date	06/29/2007 07:00				
Analysis Date	07/02/2007 13:57				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.02 LITERS				
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-22-0607 A07-7273 A7727303MS	GW-22-0607 A07-7273 A7727303SD	Matrix Spike Blank A07-7273 A7B1019601		
Sample Date	06/27/2007 13:45	06/27/2007 13:45			
Received Date	06/28/2007 12:40	06/28/2007 12:40			
Extraction Date	06/29/2007 07:00	06/29/2007 07:00	06/29/2007 07:00		
Analysis Date	07/02/2007 12:49	07/02/2007 13:12	07/02/2007 10:56		
Extraction HT Met?	YES	YES	-		
Analytical HT Met?	YES	YES	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.995 LITERS	1.03 LITERS	1.0 LITERS		
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	SBLK A07-7273 A7B1019602				
Sample Date					
Received Date					
Extraction Date	06/29/2007 07:00				
Analysis Date	07/02/2007 11:18				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Date: 07/11/2007 11:52:00 | MACTEC ENGINEERING & CONSULTANTS | Rept: AN0369
Jobno: A07-7273 | SAMPLE CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A7727301	GW-18R-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 15:26	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:16	Yes	WATER
A7727302	GW-18RR-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 15:27	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 13:30	06/28 12:40	NA	NA	07/03 20:21	Yes	WATER
A7727306	GW-19-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

07/25/07

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A7727306	GW-19-0607	MG/L	Arsenic - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 15:40	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Potassium - Total	6010	5.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/05 11:36	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 14:25	06/28 12:40	NA	NA	07/03 21:15	Yes	WATER
A7727304	GW-21-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 15:34	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 14:00	06/28 12:40	NA	NA	07/03 21:04	Yes	WATER
A7727303	GW-22-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Date: 07/11/2007 11:52:00
Jobno: A07-7273

MACTEC ENGINEERING & CONSULTANTS
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A7727303	GW-22-0607	MG/L	Beryllium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 15:29	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:26	Yes	WATER
A7727305	GW-23-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 15:39	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 14:15	06/28 12:40	NA	NA	07/03 21:09	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A7727303MS	GW-22-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 15:32	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:54	Yes	WATER
A7727303SD	GW-22-0607	MG/L	Aluminum - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Copper - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Iron - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 15:33	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	06/27/2007 13:45	06/28 12:40	NA	NA	07/03 20:59	Yes	WATER
A7B1036802	Method Blank	MG/L	Aluminum - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A7B1036802	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Copper - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:51	Yes	WATER
A7B1039702	Method Blank	MG/L	Mercury - Total	7470	1.00	-	- 12:40	NA	NA	07/03 15:43	Yes	WATER
A7B1039701	LCS	MG/L	Mercury - Total	7470	1.00	-	- 12:40	NA	NA	07/03 15:42	Yes	WATER
A7B1036801	LFB	MG/L	Aluminum - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Copper - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	-	- 12:40	NA	NA	07/03 19:56	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody Record

SEVERN TRENT STL
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
MACTEC	JOHN SCRABIS	6-27-07	300062

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page
700 NORTH BELL AVE SUITE 300	412-279-6661		Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
PITTSBURGH	PA	15106	E. WEILER	B. FISCHER

Project Name and Location (State)	Carrier/Waybill Number
HONEYWELL - OUTER HARBOR BUFFALO NY	STL COURIER

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	NITROBENZENE LOW	TOTAL METALS
GW-18R-0607	6-27-07	1330		X									X	X
GW-18RR-0607	↓	1330		X									X	X
GW-22-0607	↓	1345		X									X	X
GW-22-MS-0607	↓	1345		X									X	X
GW-22-MSD-0607	↓	1345		X									X	X
GW-21-0607	↓	1400		X									X	X
GW-23-0607	↓	1415		X									X	X
GW-19-0607	↓	1425		X									X	X

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

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

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

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	6-27-07		[signature]	06-28-07	12:40
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments
* METALS PORTION IS UNFILTERED *

2.0 °C

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

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-F510

STL Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor
Task: Buffalo Outer Harbor

Mr. John Scrabis
MACTEC Engineering&Consulting
700 North Bell Ave. Ste. 200
Pittsburgh, PA 15106

STL Buffalo

Brian J. Fischer
Project Manager

01/10/2007

STL Buffalo
Current Certifications

As of 9/28/2006

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA,NELAP CWA, RCRA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA,ASP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	NELAP CWA,RCRA	68-00281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A6F51001	GW-18R-1206	WATER	12/28/2006	10:05	12/28/2006	12:30
A6F51006	GW-19-1206	WATER	12/28/2006	11:30	12/28/2006	12:30
A6F51006MS	GW-19-1206	WATER	12/28/2006	11:40	12/28/2006	12:30
A6F51006SD	GW-19-1206	WATER	12/28/2006	11:40	12/28/2006	12:30
A6F51002	GW-21-1206	WATER	12/28/2006	10:30	12/28/2006	12:30
A6F51003	GW-22-1206	WATER	12/28/2006	10:40	12/28/2006	12:30
A6F51004	GW-23-1206	WATER	12/28/2006	11:15	12/28/2006	12:30
A6F51005	GW-23-1206 DUPLICATE	WATER	12/28/2006	11:15	12/28/2006	12:30

METHODS SUMMARY

Job#: A06-F510

STL Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor

PARAMETER	ANALYTICAL METHOD
8270 LOW - NITROBENZENE	SW8463 8270LOW
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7470
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

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

NON-CONFORMANCE SUMMARY

Job#: A06-F510

STL Project#: NY5A9518
Site Name: MACTEC - Honeywell Buffalo Outer Harbor

General Comments

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

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

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

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

Sample Receipt Comments

A06-F510
Sample Cooler(s) were received at the following temperature(s); 6.8 °C
Samples were received at a temperature of 6.8°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The analyte Calcium was detected in the Method Blank (A6B3283602) at a level above the project established reporting limit. However, all samples had levels of Calcium greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

The recoveries of sample GW-19-1206 Matrix Spike and Matrix Spike Duplicarte exhibited results above the quality control limits for Calcium and below the quality control limits for Potassium. The sample results are more than four times greater than the spikes added. The LFB (A6B3283601) is acceptable.

The recoveries of sample GW-19-1206 Matrix Spike exhibited results above the quality control limits for Barium, Iron, Magnesium and Manganese and below the quality control limits for Sodium. The recovery of sample GW-19-1206 Matrix Spike Duplicate exhibited results above the quality control limits for Barium, Iron, Magnesium, Manganese and Zinc. The RPD of sample GW-19-1206 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Iron and Zinc. Sample matrix is suspect. However, the LFB (A6B3283601) was acceptable.

The value obtained for Mercury on sample GW-23-1206 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

****

SEVERN TRENT STL

DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

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

INORGANIC DATA QUALIFIERS

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

Client ID		GW-18R-1206		GW-19-1206		GW-21-1206		GW-22-1206	
Job No / Lab ID		A06-F510	A6F51001	A06-F510	A6F51006	A06-F510	A6F51002	A06-F510	A6F51003
Sample Date		12/28/2006		12/28/2006		12/28/2006		12/28/2006	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	90	50-200	85	50-200	96	50-200	85	50-200
Naphthalene-D8	%	89	50-200	82	50-200	96	50-200	86	50-200
Acenaphthene-D10	%	89	50-200	82	50-200	94	50-200	85	50-200
Phenanthrene-D10	%	88	50-200	81	50-200	96	50-200	83	50-200
Chrysene-D12	%	86	50-200	81	50-200	92	50-200	87	50-200
Perylene-D12	%	99	50-200	98	50-200	107	50-200	108	50-200
Nitrobenzene-D5	%	94	57-147	106	57-147	80	57-147	103	57-147
2-Fluorobiphenyl	%	94	45-133	93	45-133	78	45-133	98	45-133
p-Terphenyl-d14	%	90	43-181	85	43-181	77	43-181	80	43-181
2-Fluorophenol	%	50	22-120	52	22-120	40	22-120	50	22-120
Phenol-D5	%	34	11-120	34	11-120	26	11-120	36	11-120
2,4,6-Tribromophenol	%	113	41-161	131	41-161	104	41-161	132	41-161

Client ID		GW-23-1206		GW-23-1206 DUPLICATE					
Job No / Lab ID		A06-F510	A6F51004	A06-F510	A6F51005				
Sample Date		12/28/2006		12/28/2006					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	ND	0.5	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	88	50-200	92	50-200	NA		NA	
Naphthalene-D8	%	89	50-200	93	50-200	NA		NA	
Acenaphthene-D10	%	90	50-200	93	50-200	NA		NA	
Phenanthrene-D10	%	88	50-200	90	50-200	NA		NA	
Chrysene-D12	%	87	50-200	87	50-200	NA		NA	
Perylene-D12	%	102	50-200	103	50-200	NA		NA	
Nitrobenzene-D5	%	95	57-147	98	57-147	NA		NA	
2-Fluorobiphenyl	%	91	45-133	91	45-133	NA		NA	
p-Terphenyl-d14	%	76	43-181	78	43-181	NA		NA	
2-Fluorophenol	%	44	22-120	46	22-120	NA		NA	
Phenol-D5	%	31	11-120	33	11-120	NA		NA	
2,4,6-Tribromophenol	%	123	41-161	129	41-161	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		GW-18R-1206		GW-19-1206		GW-21-1206		GW-22-1206	
Job No	Lab ID	A06-F510	A6F51001	A06-F510	A6F51006	A06-F510	A6F51002	A06-F510	A6F51003
Sample Date		12/28/2006		12/28/2006		12/28/2006		12/28/2006	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	9.8	0.20	1.6	0.20	ND	0.20	4.9	0.20
Antimony - Total	MG/L	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Arsenic - Total	MG/L	0.025	0.010	ND	0.010	ND	0.010	ND	0.010
Barium - Total	MG/L	0.18	0.0020	0.020	0.0020	0.031	0.0020	0.16	0.0020
Beryllium - Total	MG/L	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Cadmium - Total	MG/L	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Calcium - Total	MG/L	296	0.50	72.6	0.50	30.4	0.50	314	0.50
Chromium - Total	MG/L	0.016	0.0040	0.029	0.0040	ND	0.0040	0.0093	0.0040
Cobalt - Total	MG/L	0.0061	0.0040	ND	0.0040	ND	0.0040	0.0048	0.0040
Copper - Total	MG/L	0.025	0.010	ND	0.010	ND	0.010	0.037	0.010
Iron - Total	MG/L	13.3	0.050	0.32	0.050	0.10	0.050	9.8	0.050
Lead - Total	MG/L	0.080	0.0050	ND	0.0050	ND	0.0050	0.097	0.0050
Magnesium - Total	MG/L	50.5	0.20	0.34	0.20	3.5	0.20	95.6	0.20
Manganese - Total	MG/L	1.2	0.0030	0.0093	0.0030	0.0030	0.0030	1.3	0.0030
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020
Nickel - Total	MG/L	0.015	0.010	ND	0.010	ND	0.010	0.017	0.010
Potassium - Total	MG/L	33.3	0.50	316	0.50	15.2	0.50	48.8	0.50
Selenium - Total	MG/L	ND	0.015	ND	0.015	ND	0.015	ND	0.015
Silver - Total	MG/L	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030
Sodium - Total	MG/L	19.2	1.0	24.2	1.0	9.5	1.0	72.6	1.0
Thallium - Total	MG/L	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Vanadium - Total	MG/L	0.021	0.0050	0.018	0.0050	ND	0.0050	0.0087	0.0050
Zinc - Total	MG/L	0.54	0.010	ND	0.010	0.038	0.010	0.10	0.010

NA = Not Applicable ND = Not Detected

Client ID		GW-23-1206		GW-23-1206 DUPLICATE					
Job No	Lab ID	A06-F510	A6F51004	A06-F510	A6F51005				
Sample Date		12/28/2006		12/28/2006					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	8.0	0.20	2.0	0.20	NA		NA	
Antimony - Total	MG/L	0.28	0.020	0.10	0.020	NA		NA	
Arsenic - Total	MG/L	0.022	0.010	ND	0.010	NA		NA	
Barium - Total	MG/L	0.38	0.0020	0.21	0.0020	NA		NA	
Beryllium - Total	MG/L	ND	0.0020	ND	0.0020	NA		NA	
Cadmium - Total	MG/L	0.0098	0.0010	0.0021	0.0010	NA		NA	
Calcium - Total	MG/L	263	0.50	210	0.50	NA		NA	
Chromium - Total	MG/L	0.028	0.0040	0.0068	0.0040	NA		NA	
Cobalt - Total	MG/L	0.012	0.0040	ND	0.0040	NA		NA	
Copper - Total	MG/L	0.39	0.010	0.10	0.010	NA		NA	
Iron - Total	MG/L	27.2	0.050	9.0	0.050	NA		NA	
Lead - Total	MG/L	0.40	0.0050	0.10	0.0050	NA		NA	
Magnesium - Total	MG/L	45.2	0.20	32.4	0.20	NA		NA	
Manganese - Total	MG/L	1.3	0.0030	0.82	0.0030	NA		NA	
Mercury - Total	MG/L	0.00036	0.00012	ND	0.00020	NA		NA	
Nickel - Total	MG/L	0.035	0.010	0.010	0.010	NA		NA	
Potassium - Total	MG/L	65.6	0.50	64.1	0.50	NA		NA	
Selenium - Total	MG/L	0.016	0.015	ND	0.015	NA		NA	
Silver - Total	MG/L	ND	0.0030	ND	0.0030	NA		NA	
Sodium - Total	MG/L	22.0	1.0	21.7	1.0	NA		NA	
Thallium - Total	MG/L	ND	0.020	ND	0.020	NA		NA	
Vanadium - Total	MG/L	0.022	0.0050	0.0061	0.0050	NA		NA	
Zinc - Total	MG/L	2.5	0.010	0.78	0.010	NA		NA	

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		SBLK							
Job No	Lab ID	A06-F510	A7B0000202						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	ND	0.5	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	82	50-200	NA		NA		NA	
Naphthalene-D8	%	82	50-200	NA		NA		NA	
Acenaphthene-D10	%	79	50-200	NA		NA		NA	
Phenanthrene-D10	%	77	50-200	NA		NA		NA	
Chrysene-D12	%	74	50-200	NA		NA		NA	
Perylene-D12	%	80	50-200	NA		NA		NA	
Nitrobenzene-D5	%	102	57-147	NA		NA		NA	
2-Fluorobiphenyl	%	100	45-133	NA		NA		NA	
p-Terphenyl-d14	%	112	43-181	NA		NA		NA	
2-Fluorophenol	%	53	22-120	NA		NA		NA	
Phenol-D5	%	36	11-120	NA		NA		NA	
2,4,6-Tribromophenol	%	96	41-161	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		GW-19-1206		GW-19-1206		Matrix Spike Blank			
Job No	Lab ID	A06-F510	A6F51006MS	A06-F510	A6F51006SD	A06-F510	A7B0000201		
Sample Date		12/28/2006		12/28/2006					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrobenzene	UG/L	9	0.5	9	0.5	9	0.5	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	106	50-200	94	50-200	89	50-200	NA	
Naphthalene-D8	%	107	50-200	90	50-200	91	50-200	NA	
Acenaphthene-D10	%	109	50-200	95	50-200	95	50-200	NA	
Phenanthrene-D10	%	106	50-200	87	50-200	90	50-200	NA	
Chrysene-D12	%	100	50-200	85	50-200	87	50-200	NA	
Perylene-D12	%	123	50-200	109	50-200	92	50-200	NA	
Nitrobenzene-D5	%	99	57-147	101	57-147	98	57-147	NA	
2-Fluorobiphenyl	%	88	45-133	85	45-133	91	45-133	NA	
p-Terphenyl-d14	%	82	43-181	85	43-181	104	43-181	NA	
2-Fluorophenol	%	50	22-120	48	22-120	53	22-120	NA	
Phenol-D5	%	34	11-120	32	11-120	35	11-120	NA	
2,4,6-Tribromophenol	%	125	41-161	128	41-161	116	41-161	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A06-F510 A6B3283602		Method Blank A06-F510 A7B0000602					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	ND	0.20	NA		NA		NA	
Calcium - Total	MG/L	0.55	0.50	NA		NA		NA	
Potassium - Total	MG/L	ND	0.50	NA		NA		NA	
Sodium - Total	MG/L	ND	1.0	NA		NA		NA	
Manganese - Total	MG/L	ND	0.0030	NA		NA		NA	
Vanadium - Total	MG/L	ND	0.0050	NA		NA		NA	
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Thallium - Total	MG/L	ND	0.020	NA		NA		NA	
Cobalt - Total	MG/L	ND	0.0040	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Barium - Total	MG/L	ND	0.0020	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Iron - Total	MG/L	ND	0.050	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Magnesium - Total	MG/L	ND	0.20	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	
Nickel - Total	MG/L	ND	0.010	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Zinc - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		GW-19-1206		GW-19-1206		LCS		LFB	
Job No	Lab ID	A06-F510	A6F51006MS	A06-F510	A6F51006SD	A06-F510	A7B0000601	A06-F510	A6B3283601
Sample Date		12/28/2006		12/28/2006					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	10.6	0.20	11.0	0.20	NA		10.3	0.20
Antimony - Total	MG/L	0.23	0.020	0.25	0.020	NA		0.21	0.020
Arsenic - Total	MG/L	0.22	0.010	0.22	0.010	NA		0.21	0.010
Barium - Total	MG/L	0.38	0.0020	0.42	0.0020	NA		0.21	0.0020
Beryllium - Total	MG/L	0.21	0.0020	0.22	0.0020	NA		0.21	0.0020
Cadmium - Total	MG/L	0.20	0.0010	0.21	0.0010	NA		0.21	0.0010
Calcium - Total	MG/L	207	0.50	217	0.50	NA		10.4	0.50
Chromium - Total	MG/L	0.20	0.0040	0.20	0.0040	NA		0.20	0.0040
Cobalt - Total	MG/L	0.21	0.0040	0.21	0.0040	NA		0.21	0.0040
Copper - Total	MG/L	0.22	0.010	0.24	0.010	NA		0.21	0.010
Iron - Total	MG/L	13.0	0.050	16.4	0.050	NA		10.3	0.050
Lead - Total	MG/L	0.22	0.0050	0.23	0.0050	NA		0.22	0.0050
Magnesium - Total	MG/L	37.7	0.20	39.9	0.20	NA		10.2	0.20
Manganese - Total	MG/L	0.89	0.0030	0.90	0.0030	NA		0.21	0.0030
Mercury - Total	MG/L	0.0062	0.00020	0.0055	0.00020	0.0034	0.00020	NA	
Nickel - Total	MG/L	0.21	0.010	0.21	0.010	NA		0.21	0.010
Potassium - Total	MG/L	72.1	0.50	76.4	0.50	NA		10.5	0.50
Selenium - Total	MG/L	0.22	0.015	0.22	0.015	NA		0.21	0.015
Silver - Total	MG/L	0.054	0.0030	0.053	0.0030	NA		0.052	0.0030
Sodium - Total	MG/L	30.8	1.0	32.1	1.0	NA		10.4	1.0
Thallium - Total	MG/L	0.21	0.020	0.21	0.020	NA		0.21	0.020
Vanadium - Total	MG/L	0.22	0.0050	0.22	0.0050	NA		0.21	0.0050
Zinc - Total	MG/L	0.24	0.010	0.30	0.010	NA		0.21	0.010

IA = Not Applicable ND = Not Detected

SAMPLE DATE 12/28/2006

Client Sample ID: GW-19-1206 GW-19-1206 GW-19-1206
Lab Sample ID: A6F51006 A6F51006MS A6F51006SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
8270 LOW - NITROBENZENE												
Nitrobenzene	UG/L	0	8.6	8.6	9.7	9.7	89	89	89	0	24.0	42-131

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

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A7B0000202 A7B0000201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
8270 LOW - NITROBENZENE					
Nitrobenzene	UG/L	9.4	10	95	42-131

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

Date : 01/10/2007 10:30:00 Rept: AN0364

SAMPLE DATE 12/28/2006

Client Sample ID: GW-19-1206 GW-19-1206 GW-19-1206
Lab Sample ID: A6F51006 A6F51006MS A6F51006SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
MACTEC - TAL METALS (23) SW8463-6010/747												
TOTAL ALUMINUM	MG/L	1.61	10.64	11.02	10.0	10.0	90	94	92	4	20.0	75-125
TOTAL ANTIMONY	MG/L	0.00100	0.229	0.247	0.200	0.200	114	123	119	8	20.0	75-125
TOTAL ARSENIC	MG/L	0.00180	0.219	0.225	0.200	0.200	109	112	111	3	20.0	75-125
TOTAL BARIUM	MG/L	0.0202	0.375	0.422	0.200	0.200	178 *	201 *	190	12	20.0	75-125
TOTAL BERYLLIUM	MG/L	0	0.213	0.215	0.200	0.200	107	108	108	0.	20.0	75-125
TOTAL CADMIUM	MG/L	0	0.205	0.206	0.200	0.200	102	103	103	1	20.0	75-125
TOTAL CALCIUM	MG/L	72.62	207.3	216.8	10.0	10.0	1350 *	1440 *	1395	6	20.0	75-125
TOTAL CHROMIUM	MG/L	0.0286	0.199	0.201	0.200	0.200	85	86	86	1	20.0	75-125
TOTAL COBALT	MG/L	0	0.210	0.211	0.200	0.200	105	106	106	0.	20.0	75-125
TOTAL COPPER	MG/L	0.00430	0.224	0.238	0.200	0.200	110	117	114	6	20.0	75-125
TOTAL IRON	MG/L	0.325	12.95	16.38	10.0	10.0	126 *	161 *	144	24 *	20.0	75-125
TOTAL LEAD	MG/L	0.00440	0.218	0.232	0.200	0.200	107	114	111	6	20.0	75-125
TOTAL MAGNESIUM	MG/L	0.336	37.66	39.90	10.0	10.0	373 *	396 *	385	6	20.0	75-125
TOTAL MANGANESE	MG/L	0.00930	0.894	0.902	0.200	0.200	443 *	446 *	445	0.	20.0	75-125
TOTAL MERCURY	MG/L	0	0.00617	0.00547	0.00666	0.00666	92	82	87	11	20.0	80-120
TOTAL NICKEL	MG/L	0.00140	0.213	0.214	0.200	0.200	106	106	106	0	20.0	75-125
TOTAL POTASSIUM	MG/L	316.4	72.11	76.35	10.0	10.0	-999 *	-999 *	-999	2	20.0	75-125
TOTAL SELENIUM	MG/L	0.0106	0.215	0.220	0.200	0.200	102	105	104	3	20.0	75-125
TOTAL SILVER	MG/L	0.00030	0.0540	0.0533	0.0500	0.0500	107	106	107	0.	20.0	75-125
TOTAL SODIUM	MG/L	24.24	30.75	32.08	10.0	10.0	65 *	78	72	18	20.0	75-125
TOTAL THALLIUM	MG/L	0	0.214	0.210	0.200	0.200	107	105	106	2	20.0	75-125
TOTAL VANADIUM	MG/L	0.0178	0.216	0.217	0.200	0.200	99	100	100	1	20.0	75-125
TOTAL ZINC	MG/L	0.00550	0.242	0.299	0.200	0.200	119	147 *	133	21 *	20.0	75-125

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

lient Sample ID: Method Blank LFB
Lab Sample ID: A6B3283602 A6B3283601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
MACTEC - TAL METALS (23) SW8463-6010/747					
TOTAL ALUMINUM	MG/L	10.28	10.0	102	80-120
TOTAL ANTIMONY	MG/L	0.212	0.200	105	80-120
TOTAL ARSENIC	MG/L	0.208	0.200	104	80-120
TOTAL BARIUM	MG/L	0.206	0.200	103	80-120
TOTAL BERYLLIUM	MG/L	0.210	0.200	105	80-120
TOTAL CADMIUM	MG/L	0.208	0.200	104	80-120
TOTAL CALCIUM	MG/L	10.43	10.0	99	80-120
TOTAL CHROMIUM	MG/L	0.200	0.200	100	80-120
TOTAL COBALT	MG/L	0.210	0.200	105	80-120
TOTAL COPPER	MG/L	0.213	0.200	107	80-120
TOTAL IRON	MG/L	10.31	10.0	103	80-120
TOTAL LEAD	MG/L	0.216	0.200	108	80-120
TOTAL MAGNESIUM	MG/L	10.16	10.0	102	80-120
TOTAL MANGANESE	MG/L	0.208	0.200	104	80-120
TOTAL NICKEL	MG/L	0.209	0.200	104	80-120
TOTAL POTASSIUM	MG/L	10.46	10.0	104	80-120
TOTAL SELENIUM	MG/L	0.212	0.200	106	80-120
TOTAL SILVER	MG/L	0.0522	0.0500	103	80-120
TOTAL SODIUM	MG/L	10.38	10.0	102	80-120
TOTAL THALLIUM	MG/L	0.211	0.200	106	80-120
TOTAL VANADIUM	MG/L	0.210	0.200	105	80-120
TOTAL ZINC	MG/L	0.209	0.200	104	80-120

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

Client Sample ID: Method Blank LCS
Lab Sample ID: A7B0000602 A7B0000601

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
MACTEC - TAL METALS (23) SW8463-6010/747 TOTAL MERCURY	MG/L	0.00340	0.00333	102	80-120

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

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-18R-1206 A06-F510 A6F51001	GW-19-1206 A06-F510 A6F51006	GW-21-1206 A06-F510 A6F51002	GW-22-1206 A06-F510 A6F51003	GW-23-1206 A06-F510 A6F51004
Sample Date	12/28/2006 10:05	12/28/2006 11:30	12/28/2006 10:30	12/28/2006 10:40	12/28/2006 11:15
Received Date	12/28/2006 12:30	12/28/2006 12:30	12/28/2006 12:30	12/28/2006 12:30	12/28/2006 12:30
Extraction Date	01/02/2007 07:00	01/02/2007 07:00	01/02/2007 07:00	01/02/2007 07:00	01/02/2007 07:00
Analysis Date	01/09/2007 10:09	01/09/2007 12:14	01/09/2007 10:34	01/09/2007 10:59	01/09/2007 11:24
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.01 LITERS	1.02 LITERS	1.035 LITERS	1.035 LITERS	1.035 LITERS
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-23-1206 DUPLICATE A06-F510 A6F51005				
Sample Date	12/28/2006 11:15				
Received Date	12/28/2006 12:30				
Extraction Date	01/02/2007 07:00				
Analysis Date	01/09/2007 11:48				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.035 LITERS				
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID Job No & Lab Sample ID	GW-19-1206 A06-F510 A6F51006MS	GW-19-1206 A06-F510 A6F51006SD	Matrix Spike Blank A06-F510 A7B0000201		
Sample Date	12/28/2006 11:40	12/28/2006 11:40			
Received Date	12/28/2006 12:30	12/28/2006 12:30			
Extraction Date	01/02/2007 07:00	01/02/2007 07:00	01/02/2007 07:00		
Analysis Date	01/09/2007 12:38	01/09/2007 13:03	01/09/2007 09:20		
Extraction HT Met?	YES	YES	-		
Analytical HT Met?	YES	YES	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	1.03 LITERS	1.03 LITERS	1.0 LITERS		
% Dry					

NA = Not Applicable

8270 LOW - NITROBENZENE

Client Sample ID	SBLK				
Job No & Lab Sample ID	A06-F510 A7B0000202				
Sample Date					
Received Date					
Extraction Date	01/02/2007 07:00				
Analysis Date	01/09/2007 09:45				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Date: 01/10/2007 10:30:19
Jobno: A06-F510

MACTEC ENGINEERING & CONSULTANTS
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A6F51001	GW-18R-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/03 12:25	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 10:05	12/28 12:30	NA	NA	01/02 20:13	Yes	WATER
A6F51006	GW-19-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/03 12:32	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 11:30	12/28 12:30	NA	NA	01/02 20:49	Yes	WATER
A6F51002	GW-21-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Date: 01/10/2007 10:30:19 MACTEC ENGINEERING & CONSULTANTS Rept: AN0369
Jobno: A06-F510 SAMPLE CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A6F51002	GW-21-1206	MG/L	Arsenic - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/03 12:26	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 10:30	12/28 12:30	NA	NA	01/02 20:18	Yes	WATER
A6F51003	GW-22-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/03 12:28	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 10:40	12/28 12:30	NA	NA	01/02 20:34	Yes	WATER
A6F51004	GW-23-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A6F51004	GW-23-1206	MG/L	Beryllium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/03 12:29	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:39	Yes	WATER
A6F51005	GW-23-1206 DUPLICATE	MG/L	Aluminum - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/03 12:30	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 11:15	12/28 12:30	NA	NA	01/02 20:44	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Date: 01/10/2007 10:30:19
Jobno: A06-F510

MACTEC ENGINEERING & CONSULTANTS
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A6F51006MS	GW-19-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/03 12:34	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:03	Yes	WATER
A6F51006SD	GW-19-1206	MG/L	Aluminum - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Barium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Copper - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Lead - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/03 12:36	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Silver - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	12/28/2006 11:40	12/28 12:30	NA	NA	01/02 21:08	Yes	WATER
A6B3283602	Method Blank	MG/L	Aluminum - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A6B3283602	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Copper - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:39	Yes	WATER
A7B0000602	Method Blank	MG/L	Mercury - Total	7470	1.00	-	- 12:30	NA	NA	01/03 13:13	Yes	WATER
A7B0000601	LCS	MG/L	Mercury - Total	7470	1.00	-	- 12:30	NA	NA	01/03 13:11	Yes	WATER
A6B3283601	LFB	MG/L	Aluminum - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Antimony - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Beryllium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Calcium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Cobalt - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Copper - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Magnesium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Nickel - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Potassium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Sodium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Thallium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Vanadium - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER
		MG/L	Zinc - Total	6010	1.00	-	- 12:30	NA	NA	01/02 19:43	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
MACTEC Pittsburgh	John Serabis	12/28/06	299327
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
700 N. Bell Ave, Suite 200	412-279-6661 / 412-279-8567		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Pittsburgh / PA / 15106	Eric Weiler	Brian Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Honeywell outer Harbor, Buffalo, NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: SVOC's	Total metals	Special Instructions/ Conditions of Receipt
GW-18R-1206	12/28/06	1005		X					X				X	1	Honeywell EDD's requested
GW-21-1206	12/28/06	1030		X					X				X	1	
GW-22-1206	12/28/06	1040		X					X				X	1	
GW-23-1206	12/28/06	1115		X					X				X	1	
GW-23-1206 Duplicate	12/28/06	1115		X					X				X	1	
GW-19-1206	12/28/06	1130		X					X				X	1	
Spike Matrix	12/28/06	1140		X					X				X	1	
Spike Matrix Duplicate	12/28/06	1140		X					X				X	1	

Possible Hazard Identification

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

Sample Disposal

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

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	12/28/06	1230	[signature]	12806	1230
2.						
3.						

Comments

6.8°C

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

30/30

ATTACHMENT B

DATA VALIDATION REPORTS

DATA VALIDATION SUMMARY REPORT
DECEMBER 2006 GROUNDWATER SAMPLES
HONEYWELL - BUFFALO OUTER HARBOR
BUFFALO, NEW YORK

1.0 INTRODUCTION:

Data validation was completed on groundwater samples collected during sampling completed by MACTEC in December 2006. A summary of samples included in this review is presented below. Samples were analyzed by Severn Trent Laboratories (STL) in Buffalo, New York and reported in sample delivery group (SDG) A06-F510. The following U.S. Environmental Protection Agency (USEPA) SW-846 (USEPA, 1996) analytical methods were performed:

- Nitrobenzene by USEPA Method 8270C.
- Selected metals and elements by USEPA Method 6010B and 7470A.

Field Sample ID	Date Sampled	Validation Level
GW-18R-1206	12/28/2006	II
GW-19-1206	12/28/2006	II
GW-19-1206MS	12/28/2006	II
GW-19-1206MSD	12/28/2006	II
GW-21-1206	12/28/2006	II
GW-22-1206	12/28/2006	II
GW-23-1206	12/28/2006	II
GW-23-1206 Dup	12/28/2006	II

Data validation was completed by the MACTEC project chemist using Level II procedures described for Honeywell projects. During the Level II review the following data quality indicators were reviewed:

- Case Narrative
- Sample Collection and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes
- Field Duplicates
- Reporting Limits
- Electronic Data Verification

Data quality reviews were completed using general procedures described in USEPA data validation guidance documents (USEPA, 1999; USEPA, 2004). Data qualifications were completed if necessary in accordance with the guidelines and professional judgment using the following qualifiers:

U = The target compound was not detected at concentrations greater than the associated quantitation limit

J = The reported concentration is considered an estimated value

A summary of final target compound results for field samples and quality control (QC) blanks is provided in Attachment A.

2.0 DATA VALIDATION ACTIONS AND OBSERVATIONS

With the exception of the items discussed below, QC parameters and measurements checked during validation met requirements in the analytical method, validation guidelines, and QC goals. Unless specified below, results are usable without qualification.

2.1 Nitrobenzene

No data quality issues were identified and results are interpreted to be usable as reported by the lab.

2.2 Metals

Matrix Spike

Recoveries for a subset of analytes in the matrix spike/matrix spike duplicate (MS/MSD) analyses of sample GW-19-1206 were outside the project limits of 75 – 125 percent. High recovery was reported for barium (178 – 201 %), iron (126 – 161 %), magnesium (375 – 396 %), manganese (443 -446 %), and zinc (119 – 147 %). Low recovery was reported for sodium (65 - 78 %). Recovery within limits was reported for these elements in the blank spike indicating there is a matrix effect causing bias of these elements in the sample run. Results of barium, iron, magnesium, and manganese in sample GW-19-1206 were qualified as estimated (J) and may be biased high. The results for sodium was qualified estimated (J) and may be biased low.

Field Duplicate

A field duplicate was collected from location GW-23-1206. Relative percent difference (RPD) was calculated for each analyte. A comparison of results is summarized below. Results for aluminum, antimony, barium, cadmium, chromium, copper, iron, lead, nickel, vanadium, and zinc exceeded 50. Arsenic and cobalt were reported in one sample at a concentration greater than the reporting limit and not in the other sample. These results indicate variability of these results may occur at a given sample location for these analytes. Results for aluminum, antimony, barium, cadmium, chromium, copper, iron, lead, nickel, vanadium, zinc, arsenic, and cobalt were qualified estimated (J) in samples GW-23-1206 and GW-23-1206 Duplicate.

Analyte	GW-23-1206 (mg/L)	GW-23-1206 Dup (mg/L)	RPD
Al	8	2	120
Sb	0.28	0.1	95
Ar	0.022	ND	
Ba	0.38	0.21	58
Be	ND	ND	
Cd	0.0098	0.0021	129
Ca	263	210	22
Cr	0.028	0.0068	122
Co	0.012	ND	
Cu	0.39	0.1	118
Fe	27.2	9	101
Pb	0.4	0.1	120
Mg	45.2	32.4	33
Mn	1.3	0.82	45
Hg	0.00036	ND	

Ni	0.035	0.01	111
K	65.6	64.1	2
Se	0.016	ND	
Ag	ND	ND	
Na	22	21.7	1
Tl	ND	ND	
V	0.022	0.0061	113
Zn	2.5	0.78	105

References:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review"; Office of Emergency and Remedial Response; EPA-540/R-99/008; October 1999.

U.S. Environmental Protection Agency (USEPA), 2004. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review"; Office of Superfund Remediation and Technology Innovation; EPA-540-R-04-004; October 2004.

Senior Chemist: Chris Ricardi, NRCC-EAC

Chris Ricardi

Date: 1/29/07

ATTACHMENT A
DATA VALIDATION SUMMARY REPORT
BUFFALO OUTER HARBOR
BUFFALO, NEW YORK

		Field Sample ID	GW-18R-1206	GW-19-1206	GW-21-1206	GW-22-1206	GW-23-1206	GW-23-1206 DUPLICATE
		Location	GW-18R	GW-19	GW-21	GW-22	GW-23	GW-23
		Sample Date	12/28/2006	12/28/2006	12/28/2006	12/28/2006	12/28/2006	12/28/2006
Units	**Method**	**Parameter**						
mg/L	SW6010	Aluminum	9.8	1.6	0.2 U	4.9	8 J	2 J
mg/L	SW6010	Antimony	0.02 U	0.02 U	0.02 U	0.02 U	0.28 J	0.1 J
mg/L	SW6010	Arsenic	0.025	0.01 U	0.01 U	0.01 U	0.022 J	0.01 UJ
mg/L	SW6010	Barium	0.18	0.02 J	0.031	0.16	0.38 J	0.21 J
mg/L	SW6010	Beryllium	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
mg/L	SW6010	Cadmium	0.001 U	0.001 U	0.001 U	0.001 U	0.0098 J	0.0021 J
mg/L	SW6010	Calcium	296	72.6	30.4	314	263	210
mg/L	SW6010	Chromium	0.016	0.029	0.004 U	0.0093	0.028 J	0.0068 J
mg/L	SW6010	Cobalt	0.0061	0.004 U	0.004 U	0.0048	0.012 J	0.004 UJ
mg/L	SW6010	copper	0.025	0.01 U	0.01 U	0.037	0.39 J	0.1 J
mg/L	SW6010	Iron	13.3	0.32 J	0.1	9.8	27.2 J	9 J
mg/L	SW6010	Lead	0.08	0.005 U	0.005 U	0.097	0.4 J	0.1 J
mg/L	SW6010	Magnesium	50.5	0.34 J	3.5	95.6	45.2 J	32.4 J
mg/L	SW6010	manganese	1.2	0.0093 J	0.003	1.3	1.3 J	0.82 J
mg/L	SW6010	Nickel	0.015	0.01 U	0.01 U	0.017	0.035 J	0.01 J
mg/L	SW6010	Potassium	33.3	316	15.2	48.8	65.6	64.1
mg/L	SW6010	Selenium	0.015 U	0.015 U	0.015 U	0.015 U	0.016	0.015 U
mg/L	SW6010	Silver	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
mg/L	SW6010	Sodium	19.2	24.2	9.5	72.6	22	21.7
mg/L	SW6010	Thallium	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
mg/L	SW6010	Vanadium	0.021	0.018	0.005 U	0.0087	0.022 J	0.0061 J
mg/L	SW6010	Zinc	0.54	0.01 U	0.038	0.1	2.5 J	0.78 J
mg/L	SW7470	Mercury	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00036	0.0002 U
ug/L	SW8270LOW	Nitrobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
U = undetected
J = estimated concentration

DATA VALIDATION SUMMARY REPORT
JUNE 2007 GROUNDWATER SAMPLES
HONEYWELL - BUFFALO OUTER HARBOR
BUFFALO, NEW YORK

1.0 INTRODUCTION:

Data validation was completed on groundwater samples collected during sampling completed by MACTEC in June 2007. A summary of samples included in this review is presented below. Samples were analyzed by TestAmerica Laboratories (TAL) in Buffalo, New York and reported in sample delivery group (SDG) A07-7273. The following U.S. Environmental Protection Agency (USEPA) SW-846 (USEPA, 1996) analytical methods were performed:

- Nitrobenzene by USEPA Method 8270C.
- Selected metals and elements by USEPA Method 6010B and 7470A.

Field Sample ID	Lab Sample ID	Date Sampled	Validation Level
GW-18R-0607	A7727301	6/27/2007	II
GW-18RR-0607	A7727302	6/27/2007	II
GW-19-0607	A7727306	6/27/2007	II
GW-21-0607	A7727304	6/27/2007	II
GW-22-0607	A7727303	6/27/2007	II
GW-22-0607MS	A7727303MS	6/27/2007	II
GW-22-0607MSD	A7727303SD	6/27/2007	II
GW-23-0607	A7727305	6/27/2007	II

Data validation was completed by the MACTEC project chemist using Level II procedures described for Honeywell projects. During the Level II review the following data quality indicators were reviewed:

- Case Narrative
- Sample Collection and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes
- Field Duplicates
- Reporting Limits
- Electronic Data Verification

Data quality reviews were completed using general procedures described in USEPA data validation guidance documents (USEPA, 1999; USEPA, 2004). Data qualifications were completed if necessary in accordance with the guidelines and professional judgment.

A summary of final target compound results for field samples and quality control (QC) blanks is provided in Attachment A.

2.0 DATA VALIDATION ACTIONS AND OBSERVATIONS

With the exception of the items discussed below, QC parameters and measurements checked during validation met requirements in the analytical method, validation guidelines, and QC goals. Unless specified below, results are usable without qualification.

2.1 Nitrobenzene

No data quality issues were identified and results are interpreted to be usable as reported by the lab.

2.2 Metals

No data quality issues were identified and results are interpreted to be usable as reported by the lab.

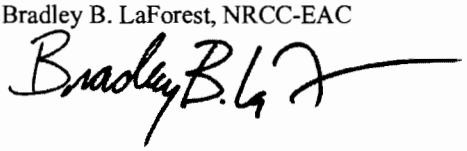
References:

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review"; Office of Emergency and Remedial Response; EPA-540/R-99/008; October 1999.

U.S. Environmental Protection Agency (USEPA), 2004. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review"; Office of Superfund Remediation and Technology Innovation; EPA-540-R-04-004; October 2004.

Bradley B. LaForest, NRCC-EAC



March 25, 2008

Senior Chemist: Chris Ricardi, NRCC-EAC

March 25, 2008

ATTACHMENT A
DATA VALIDATION SUMMARY REPORT
JUNE 2007 GROUNDWATER SAMPLES
HONEYWELL - BUFFALO OUTER HARBOR
BUFFALO, NEW YORK

Units	Method	Field Sample ID / Location / Sample Date / Parameter Name	GW-18R-0607 GW-18R 6/27/2007	GW-18RR-0607 GW-18R 6/27/2007	GW-19-0607 GW-19 6/27/2007	GW-21-0607 GW-21 6/27/2007	GW-22-0607 GW-22 6/27/2007	GW-23-0607 GW-23 6/27/2007
mg/l	SW6010	ALUMINUM	6.1	4.8	1.2	0.2 U	11	0.2 U
mg/l	SW6010	ANTIMONY	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.054
mg/l	SW6010	ARSENIC	0.02	0.019	0.03	0.01 U	0.011	0.01 U
mg/l	SW6010	BARIUM	0.14	0.13	0.021	0.031	0.22	0.2
mg/l	SW6010	BERYLLIUM	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
mg/l	SW6010	CADMIUM	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
mg/l	SW6010	CALCIUM	273	273	36.9	29	320	202
mg/l	SW6010	CHROMIUM	0.011	0.008	0.016	0.004 U	0.027	0.004 U
mg/l	SW6010	COBALT	0.004 U	0.004 U	0.004 U	0.004 U	0.0073	0.004 U
mg/l	SW6010	COPPER	0.016	0.013	0.036	0.01 U	0.038	0.01 U
mg/l	SW6010	IRON	11.9	10	1	0.093	22.4	3.4
mg/l	SW6010	LEAD	0.046	0.038	0.026	0.005 U	0.077	0.0064
mg/l	SW6010	MAGNESIUM	47.6	46.1	1.4	3.7	113	37.7
mg/l	SW6010	MANGANESE	0.98	0.9	0.031	0.0036	1.4	0.75
mg/l	SW6010	NICKEL	0.01	0.01 U	0.013	0.01 U	0.023	0.01 U
mg/l	SW6010	POTASSIUM	29.1	29.5	677	15.6	44.4	67.9
mg/l	SW6010	SELENIUM	0.015 U	0.015 U	0.016	0.015 U	0.015 U	0.015 U
mg/l	SW6010	SILVER	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
mg/l	SW6010	SODIUM	18.8	19.1	57.8	10.5	68.8	29.4
mg/l	SW6010	THALLIUM	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
mg/l	SW6010	VANADIUM	0.014	0.012	0.052	0.005 U	0.024	0.005 U
mg/l	SW6010	ZINC	0.29	0.25	0.039	0.014	0.19	0.027
mg/l	SW7470	MERCURY	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
ug/l	SW8270LOW	NITROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Created by:WCG
Date:3/25/08
Reviewed by:BBL
Date:3/25/08