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NTC GREAT LAKES
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Long-Term Groundwater Monitoring Report Round 7 (May 2008)

for

Site 2 – Forrestal Landfill
Site 3 – Supplyside Landfill

Naval Station Great Lakes
Great Lakes, Illinois

Naval Facilities Engineering Command Midwest

Naval Facilities Engineering Command Midwest

Contract Number N62467-04-D-0055

Contract Task Order 478

October 2008

LONG-TERM GROUNDWATER MONITORING REPORT
ROUND 7 (MAY 2008)
FOR
SITE 2- FORRESTAL LANDFILL and SITE 3 - SUPPLYSIDE LANDFILL

NAVAL STATION GREAT LAKES
GREAT LAKES, ILLINOIS

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

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ACRONYMS AND ABBREVIATIONS

BGS	Below Ground Surface
GRO	Groundwater Remediation Objective
MCL	Maximum Contaminant Level
MSL	Mean Sea Level
NSGL	Naval Station Great Lakes
NTU	Nephelometric Turbidity Unit
PCB	Polychlorinated Biphenyl
PRG	Preliminary Remediation Goal
SVOC	Semi-volatile Organic Compound
TACO	Tiered Approach to Corrective Action Objectives
TDS	Total Dissolved Solids
TPVC	Top of PVC Riser
TtNUS	Tetra Tech NUS, Inc.
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
µg/L	Microgram Per Liter
mg/L	Milligram Per Liter

1.0 INTRODUCTION

This Long-Term Groundwater Monitoring Report presents the results for Round 7 (May 2008) of the long-term groundwater monitoring at the Forrestal Landfill (Site 2) and Supplyside Landfill (Site 3) at the Naval Station Great Lakes (NSGL), Great Lakes, Illinois.

Tetra Tech NUS, Inc. (TtNUS) has prepared this report for the United States Department of Navy, Naval Facilities Engineering Command Midwest under the Comprehensive Long-Term Environmental Action Navy Contract Number N62467-04-D-0055, Contract Task Order 478.

1.1 SCOPE AND OBJECTIVE

The objective of this Round 7 Groundwater Monitoring Report is to present and evaluate the results of the seventh round of long-term monitoring at the Forrestal and Supplyside landfills. The monitoring is being conducted to comply with Federal and Illinois requirements for closure of the landfills under Resource Conservation and Recovery Act. Monitoring is conducted quarterly and in its second year.

This report is for the seventh round of the long-term groundwater monitoring at the Forrestal and Supplyside Landfills. Evaluation of monitoring results is limited to a comparison of these results to the State of Illinois Tiered Approach to Corrective Action Objectives (TACO) criteria or, in the absence of a TACO criterion, to U.S Environmental Protection Agency (USEPA) primary or secondary Maximum Contaminant Levels (MCLs) or USEPA Region IX preliminary remediation goals (PRGs). This evaluation also includes a comparison of the results of this round of sampling to the six previous rounds of groundwater monitoring.

1.2 REPORT ORGANIZATION

Section 1.0 of the report is this brief introduction including the scope and objective and descriptions of the facility and sites. Section 2.0 describes the field sampling activities. Section 3.0 presents and brief evaluates the laboratory results for samples from the Forrestal Landfill, and Section 4.0 presents and brief evaluates the laboratory results for samples from the Supplyside Landfill. Additionally, conclusions and recommendations are provided in Sections 3.0 and 4.0 based on the data evaluations.

1.3 FACILITY AND SITE BACKGROUND

NSGL is located in Lake County, Illinois, approximately 30 miles north of Chicago. NSGL covers 1,632 acres and has 1.5 miles of shoreline along Lake Michigan. Figure 1-1 illustrates the general location and layout of NSGL. NSGL began naval training operations in 1911. NSGL is currently used to

support training and consists of the Administrative Command, the Recruit Training Command (including the Navy's only boot camp), and the Service School Command.

Sites 2 and 3 are located in the southwestern corner of NSGL. Figure 1-1 illustrates the locations of these sites within NSGL.

1.3.1 Forrestal Landfill

The Forrestal Landfill (Site 2) is located between Superior Street and Skokie Ditch, south of Virginia Court (Figure 1-2). The landfill was the first controlled disposal area used by NSGL. Operations at the landfill began in 1967 and ceased in 1969.

The site was operated as a trench-type landfill with no burning. It is estimated that approximately 276,000 cubic yards of refuse were disposed at the landfill. The total volume of material disposed at the landfill was limited by the size of the parcel (approximately 4 acres) and by the fact that disposed refuse was not burned. In addition, the period during which the site operated coincided with the period during which housing waste collection switched from the Navy to a private contractor, with disposal on Navy property.

The waste disposed in the Forrestal Landfill was primarily mixed office waste from the Administrative Command and the various training schools. Shop waste was also disposed at the Forrestal Landfill (Rogers, Golden, & Halpern, 1986). In 2004, a cap was constructed on the Forrestal Landfill.

1.3.2 Supplyside Landfill

The Supplyside Landfill (Site 3) is adjacent to the NSGL facility boundary and south of the Supply Department warehouse (Building 3503) and extends almost to the westward extension of Alabama Avenue (Figure 1-3). The landfill covers approximately 7 acres. A railroad spur formerly crossed the southeastern third of the landfill and serviced the warehouses north of the site.

Operations at the landfill began in 1969. The landfill was operated as a trench-type landfill with four parallel trenches. There was no intentional burning of refuse at this site. It is estimated that approximately 1 million cubic yards of refuse were disposed at the landfill. The total volume of material disposed at the landfill was limited by the size of the parcel. The main component of disposed material at the Supplyside Landfill site was general office waste. No liquids, metals, or sanitary wastes were accepted for disposal at the Supplyside Landfill (Rogers, Golden, and Halpern, 1986).

The Supplyside Landfill was closed in 1983 and had a cover installed in 1985. The cover grading and seeding were performed by the Navy Construction Battalion 401, a tenant command at NSGL during that time period.

In 2004, a new cap was constructed on the Supplyside Landfill. Additionally, geotextile fabric and additional soil cover were installed in 2005 over approximately 330 feet by 550 feet of the northern end of the landfill to cover approximately 12,000 cubic yards of soil with asbestos-containing material (non-friable transite).

1.4 PREVIOUS ENVIRONMENTAL ACTIVITIES

Investigations were performed at each of the landfills in 2001 to determine the presence of methane and volatile organic compounds (VOCs). In 2002 and 2003, investigations were conducted to determine the thickness and properties of the existing soil caps and to collect samples of groundwater from the waste mass (TolTest, 2007a).

In 2002, a Project Plan and Report Final Cover Study (Clayton, 2004) was prepared for the Navy for the Forrestal Landfill. In 2003, a similar Existing Conditions Investigation and Proposed Modifications to Landfill Cover System (Versar, 2003) was prepared for the Navy for the Supplyside Landfill. In 2004, TolTest Inc. (TolTest) constructed new caps for each of the landfills in accordance with their respective designs.

In 2006, TolTest installed groundwater monitoring wells around the perimeters of the landfills, including six wells (FL-01 through FL-06) at the Forrestal Landfill and six wells (SSL-01 through SSL-06) at the Supplyside Landfill. The locations of the monitoring wells at Forrestal Landfill are illustrated on Figure 1-2, and the locations of the monitoring wells at Supplyside Landfill are illustrated on Figure 1-3.

TolTest conducted groundwater monitoring events at both sites in August 2006 (Round 1) (TolTest, 2007b), January 2007 (Round 2) (TolTest, 2007c), April 2007 (Round 3) (TolTest, 2007d), and August 2007 (Round 4) (TolTest, 2007d). In November 2007, February 2008, and May 2008, TtNUS conducted Rounds 5, 6, and 7 of the groundwater monitoring, respectively (TtNUS, 2008).

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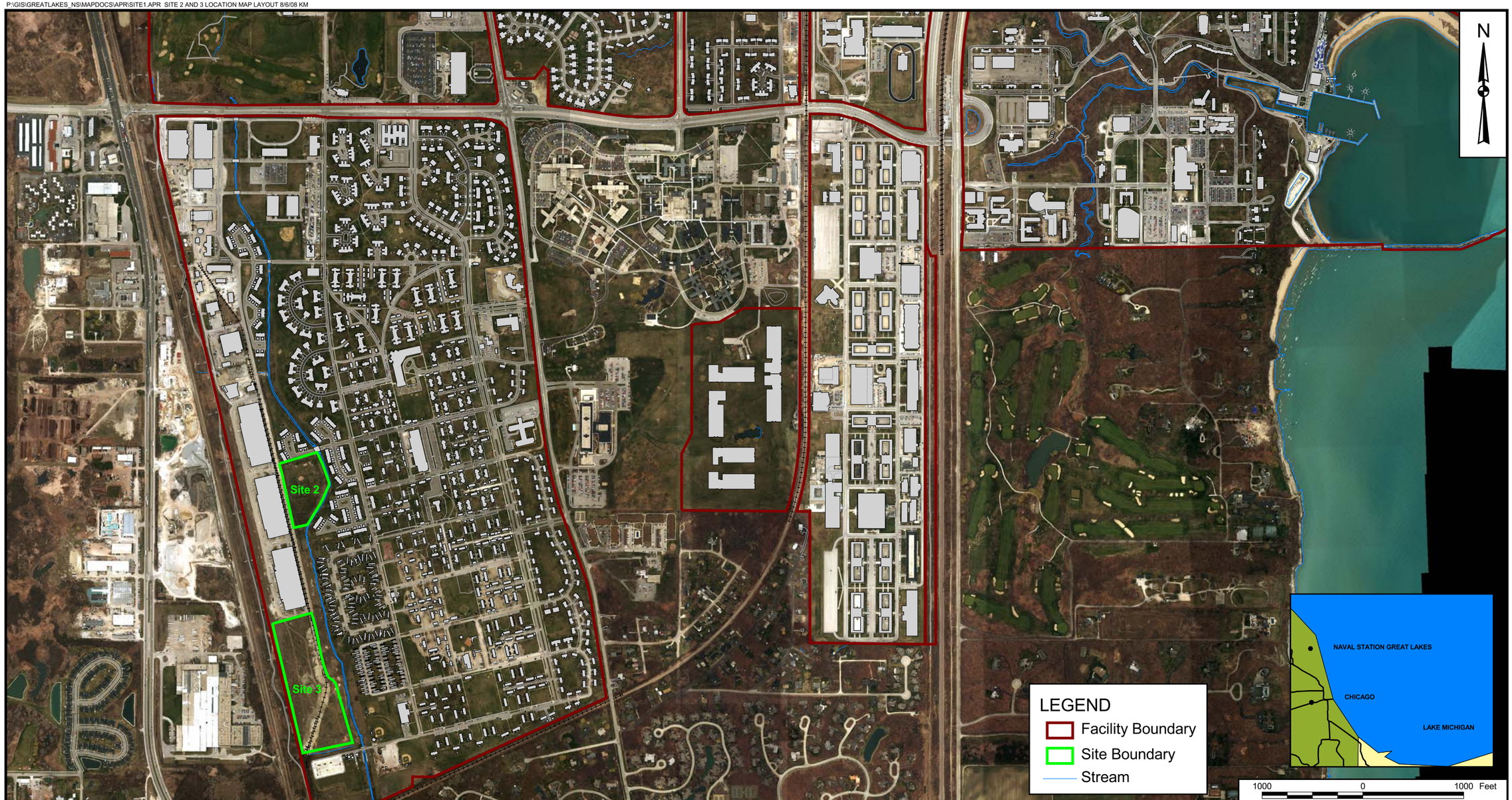

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SITE LOCATION MAP
SITE 2 - FORRESTAL LANDFILL
SITE 3 - SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES
GREAT LAKES, ILLINOIS

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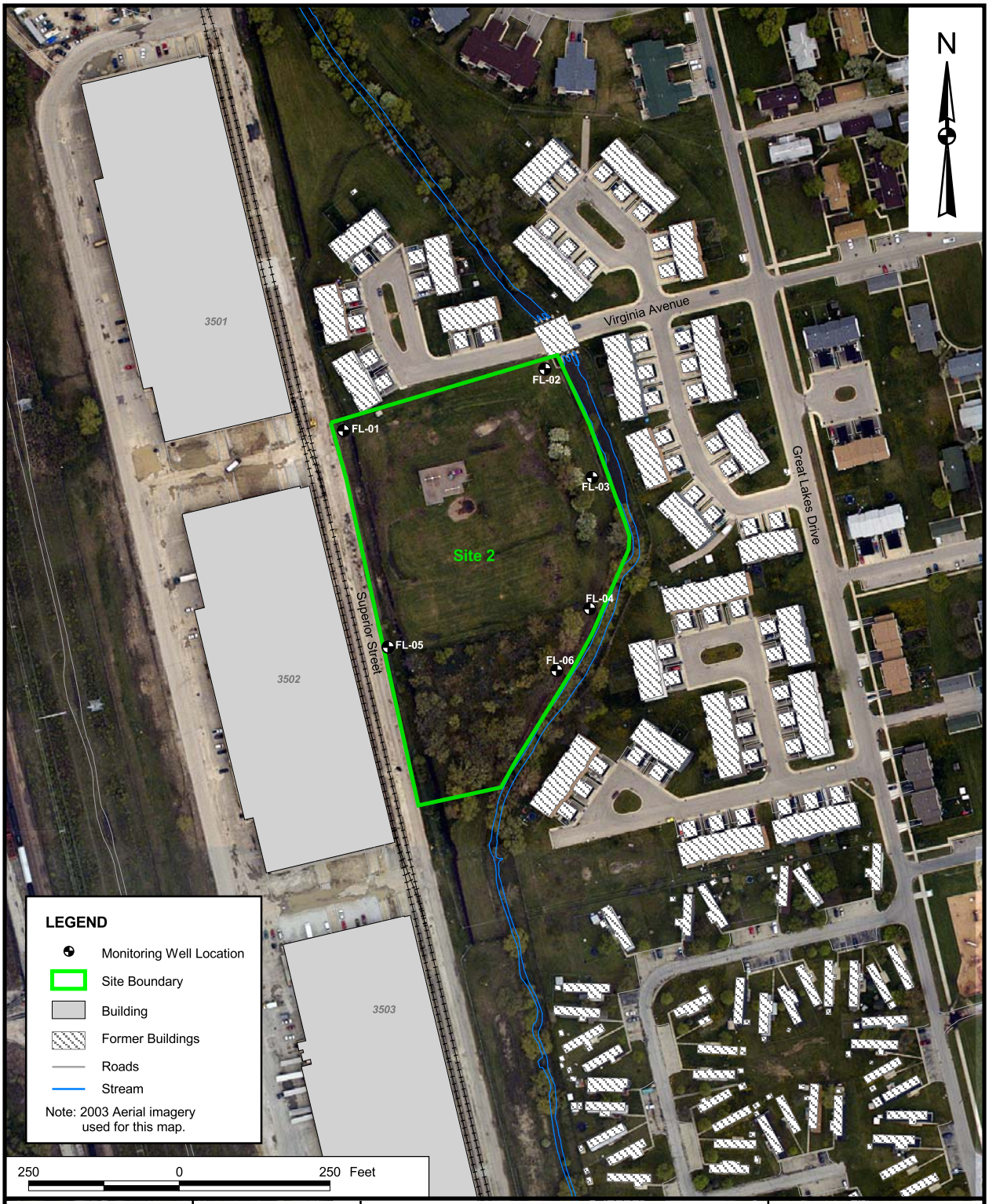

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DRAWN BY S. STROZ	DATE 10/23/07	SITE 3 SUPPLYSIDE LANDFILL NAVAL STATION GREAT LAKES GREAT LAKES, ILLINOIS	CONTRACT NUMBER 0478
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2.0 FIELD INVESTIGATION ACTIVITIES

Field investigation activities as part of the Round 7 (May 2008) groundwater monitoring event included collection of a groundwater level measurements and groundwater sampling of the 12 monitoring wells (six at each site). These activities were performed in accordance with the procedures and methodologies described in Section 3.0 of the Sampling and Analyses Plan for Site 2 - Forrestal Landfill and Site 3 - Supplyside Landfill, Long-Term Groundwater Monitoring (TtNUS, 2007). Copies of the field forms and a copy of the field activity log book are provided in Appendix A.

2.1 WATER LEVEL MEASUREMENTS

Water levels were measured in the 12 monitoring wells at the two landfills during the week of May 5 through May 8, 2008. The water levels were measured within a 24-hour period at each site and prior to purging and sampling activities.

Table 2-1 summarizes the water level measurements collected during the sampling effort. Figures 3-1 and 4-1 illustrate the potentiometric surface maps for the Forrestal and Supplyside Landfills, respectively.

2.2 GROUNDWATER SAMPLING

The 12 monitoring wells were sampled during the Round 7 groundwater monitoring event using low-flow purging and sampling techniques, in accordance with the Sampling and Analysis Plan (TtNUS, 2007). The wells were purged prior to sampling using dedicated bladder pumps. Nitrogen gas was used as the air source for the bladder pumps.

During purging, groundwater quality parameters, including pH, specific conductivity, temperature, dissolved oxygen, and oxidation-reduction potential, were measured at 10-minute intervals using a QED MP20 water quality meter with a flow-through cell, and turbidity was measured at the same intervals using a LaMotte 2020 turbidimeter. Water levels were also measured during purging at 5- to 10-minute intervals. The groundwater quality parameters and water levels measured during purging were recorded on low-flow purge data sheets. Copies of the low-flow purge data sheets and sample log sheets are provided in Appendix A. Purge water was containerized in a 55-gallon drum for off-site disposal by a disposal subcontractor, as discussed in Section 2.3.

Purging continued until the groundwater parameters stabilized to within the criteria defined in the Sampling and Analysis Plan and one stabilized volume had been removed. Following purging, samples were collected directly from the discharge end of the Teflon®-lined pump tubing. The groundwater

samples were collected and analyzed for L1 and L2 parameters listed in Table 2-2, as defined by the Illinois Environmental Protection Agency for the sites.

For monitoring wells with turbidity readings greater than 10 nephelometric turbidity units (NTUs), additional filtered sample volume was collected for metals analysis. The additional filtered sample volume was collected for comparison of total and filtered metals analysis to determine the relative effect of suspended solids on the metals concentrations. The filtered samples were collected through new, disposable, 0.45-micron filters attached to the discharge tubing. Filtered samples were collected from wells FL-02, FL-03, FL-05, FL-06, SL-01, SL-03, and SL-06.

The laboratory analyses were performed by laboratories (TriMatrix Laboratories of Grand Rapids, Michigan, and TestAmerica of University Park, Illinois) accredited by the Illinois Environmental Laboratory Accreditation Program and that have successfully completed the Navy's evaluation program as described in the Navy Installation Restoration Chemical Data Quality Manual (September 1999 and as amended October 2002). Subtier laboratories to the prime laboratories performed specialty analyses, including Lake County Public Works Laboratory of Deerfield, Illinois (fecal coliform analysis) and TestAmerica of Savannah, Georgia (organophosphorus pesticide and carbamate pesticide analyses). Trimatrix and TestAmerica-Savannah were used for analyses with holding times greater than 3 days, and Test America-University Park and Lake County Public Works Laboratory were used for analyses with holding times less then 3 days. The laboratory analytical results for the groundwater samples are discussed in Sections 3.0 and 4.0. Copies of the chain-of-custody records are provided in Appendix A.

2.3 DECONTAMINATION AND INVESTIGATION-DERIVED WASTE

The water quality and water level meters were decontaminated by rinsing with deionized water prior to and after use.

The investigation-derived waste generated during Round 7 (i.e., purge water) was staged in one 55-gallon drum under the control of NSGL, pending disposal off site by a subcontracted licensed disposal company (Industrial Water Services of Chicago, Illinois). The drum was picked up for disposal on May 20, 2008. The waste profile and manifest for disposal of the drum are included in Appendix B.

TABLE 2-1

GROUNDWATER ELEVATION SUMMARY
LONG-TERM MONITORING
NAVAL STATION GREAT LAKES
GREAT LAKES, ILLINOIS

Location	Ground Elevation[1] (feet MSL)	TPVC Elevation[1] (feet MSL)	Screen Interval (feet BGS)	August 2006 (Round 1)[2] Toltest		January 2007 (Round 2)[2] Toltest		April/May 2007 (Round 3)[2] Toltest		August 2007 (Round 4)[2] Toltest	
				Depth To Water (feet TPVC)	Groundwater Elevation (feet MSL)	Depth To Water (feet TPVC)	Groundwater Elevation (feet MSL)	Depth To Water (feet TPVC)	Groundwater Elevation (feet MSL)	Depth To Water (feet TPVC)	Groundwater Elevation (feet MSL)
Site 2 - Forrestal Landfill											
FL-01	680.44	683.20	10 - 50	18.80	664.40	17.28	665.92	16.88	666.32	17.59	665.61
FL-02	674.49	677.32	10 - 50	42.85	634.47	43.60	633.72	39.65	637.67	39.56	637.76
FL-03	674.13	676.89	10 - 50	8.90	667.99	6.96	669.93	5.77	671.12	6.35	670.54
FL-04	674.76	677.50	10 - 50	8.55	668.95	8.20	669.30	7.09	670.41	7.95	669.55
FL-05	678.87	681.60	10 - 50	46.87	634.73	43.41	638.19	41.33	640.27	40.80	640.80
FL-06	675.21	678.04	15 - 35	10.95	667.09	10.47	667.57	8.75	669.29	10.44	667.60
Site 3 - Supplyside Landfill											
SSL-01	680.02	682.71	10 - 50	33.56	649.15	31.40	651.31	29.88	652.83	31.59	651.12
SSL-02	677.47	680.24	10 - 50	NM	--	47.57	632.67	45.59	634.65	NM	--
SSL-03	675.83	678.68	10 - 50	27.13	651.55	24.95	653.73	23.55	655.13	25.46	653.22
SSL-04	672.07	674.94	10 - 50	23.05	651.89	20.69	654.25	19.31	655.63	20.93	654.01
SSL-05	673.88	676.69	10 - 50	11.93	664.76	11.61	665.08	10.58	666.11	12.06	664.63
SSL-06	676.15	678.98	10 - 50	27.30	651.68	19.93	659.05	17.83	661.15	20.41	658.57

				November 2007 (Round 5) TtNUS		February 2008 (Round 6) TtNUS		May 2008 (Round 7) TtNUS	
Site 2 - Forrestal Landfill									
FL-01	680.44	683.20	10 - 50	17.41	665.79	16.65	666.55	16.10	667.10
FL-02	674.49	677.32	10 - 50	40.76	636.56	39.30	638.02	38.31	639.01
FL-03	674.13	676.89	10 - 50	8.16	668.73	6.24	670.65	6.50	670.39
FL-04	674.76	677.50	10 - 50	8.50	669.00	7.68	669.82	7.45	670.05
FL-05	678.87	681.60	10 - 50	42.30	639.30	41.47	640.13	39.95	641.65
FL-06	675.21	678.04	15 - 35	11.01	667.03	9.65	668.39	9.60	668.44
Site 3 - Supplyside Landfill									
SSL-01	680.02	682.71	10 - 50	31.90	650.81	30.10	652.61	28.95	653.76
SSL-02	677.47	680.24	10 - 50	46.83	633.41	46.13	634.11	44.68	635.56
SSL-03	675.83	678.68	10 - 50	25.85	652.83	24.17	654.51	22.90	655.78
SSL-04	672.07	674.94	10 - 50	21.84	653.10	20.10	654.84	18.58	656.36
SSL-05	673.88	676.69	10 - 50	12.26	664.43	11.20	665.49	10.80	665.89
SSL-06	676.15	678.98	10 - 50	23.21	655.77	14.60	664.38	14.50	664.48

(1) Elevations from *Draft Well Installation and Development Closure Report* (TolTest, January 2007).

(2) Water levels collected by Toltest, Inc., were over the course of each sampling round and not within a 24-hour time period.

MSL - mean sea level
BGS - below ground surface
TPVC - top of PVC riser
NM - No measurement

TABLE 2-2

ANALYTICAL PROGRAM
LONG-TERM GROUNDWATER MONITORING
SITE 2 – FORRESTAL LANDFILL
SITE 3 – SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES, GREAT LAKES, ILLINOIS

Parameter
Groundwater L1
RCRA Metals (As, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Ag, An)
Lead
Cyanide
Oils
Total Dissolved Solids (TDS)
Ammonia (NH3)
Biological Oxygen Demand (BOD)
Phosphorus
Chromium +6
Fluoride
Phenols
Total Suspended Soilds (TSS)
Fecal Coliform
Mercury
Chemical Oxygen Demand (COD)
Groundwater L2
Volatile Organic Compound (VOC)
Semi-volatile Organic Compound (SVOC) with Polynuclear Aromatic (PNA) Selected Ion Monitoring (SIM)
Herbicides
Chlorinated Pesticides
Polychlorinated Biphenyls (PCBs)
Pesticides, Nitrogen and Phosphorus
Carbamate Pesticides
Target Analyte List (TAL) Metals (23 analytes / TACO Limits)
Ammonia (NH3)
Fecal Coliform
Chemical Oxygen Demand (COD)
Chloride
Cyanide
Fluoride
Nitrate

TABLE 2-2

ANALYTICAL PROGRAM
LONG-TERM GROUNDWATER MONITORING
SITE 2 – FORRESTAL LANDFILL
SITE 3 – SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES, GREAT LAKES, ILLINOIS

Parameter
Oil, Hexane Soluble
Phenols
Phosphorus
Sulfate
Total Dissolved Solids (TDS)
Total Organic Content (TOC)
Total Suspended Solids (TSS)

3.0 SITE 2 – FORRESTAL LANDFILL RESULTS

3.1 HYDROGEOLOGY

Figure 3-1 illustrates the groundwater potentiometric surface at the Forrestal Landfill, as measured during Round 7 (May 2008). Based on Figure 3-1, groundwater flow at the site during Round 7 was radial from the western portion of the landfill, and flow was generally north, east, and south. Groundwater flow was similar to previous rounds.

3.2 ANALYTICAL RESULTS

Groundwater samples were collected from monitoring wells FL-01 through FL-06 at the Forrestal Landfill (Site 2) during Round 7 (May 2008). A field duplicate sample was also collected from monitoring well FL-04. The groundwater samples were analyzed for the L1/L2 parameters listed on Table 2-2. Samples from wells FL-02, FL-03, FL-05, and FL-06 were sampled for dissolved metals, based on turbidity readings greater than 10 NTUs. A table of laboratory results from Round 7 is provided in Appendix C, and data validation letters and laboratory data sheets are included as Appendix D.

Table 3-1 summarizes analytical results from groundwater samples collected at Forrestal Landfill for Rounds 1 through 7. The table lists parameters that were detected above the laboratory detection limits in at least one sample. Parameters not detected above the laboratory detection limits are not presented in the table but are provided in the summary of analytical results in Appendix C. Table 3-1 compares the analytical results to Illinois EPA TACO Groundwater Remediation Objectives (GROs) for Class I groundwater, or to USEPA primary or secondary MCLs or USEPA Region IX PRGs for parameters for which no TACO GROs are available. Parameters exceeding either the TACO GROs or USEPA primary or secondary MCLs are noted in Table 3-1 by dark shading.

Table 3-2 summarizes statistics for the analytical results, including frequency of detections, number of exceedances, range of detections, location of maximum concentrations, and averages of detected concentrations for Rounds 1 through 7.

Trend graphs for parameters with concentrations detected above a criterion are provided in Appendix E.

Comparison of Round 7 data to the criteria is summarized as follows:

- Concentrations of total aluminum in samples from FL-02 [6,900 micrograms per liter (µg/L)] and FL-06 (5,000 µg/L) were greater than the TACO GRO of 3,500 µg/L. However, aluminum was not

detected in the filtered sample from FL-02, and the result of the filtered samples from FL-06 (31 µg/L) was less than the TACO GRO. This was similar to the previous three rounds (during which filtered samples were collected) where total aluminum concentrations were greater than the TACO GRO, but the aluminum concentrations from the filtered samples were less than the TACO GRO or not detected.

- Total arsenic was detected in the Site 2 wells at concentrations from 0.26 to 14 µg/L, which are less than the TACO GRO of 50 µg/L. The concentrations are similar to results detected during previous rounds. Arsenic has been detected in groundwater at Site 2 at a concentration (70.3 µg/L) greater than the TACO GRO in one well (FL-02) during one round (Round 4).

- Concentrations of total iron in samples from FL-02 (7,300 µg/L), FL-03 (16,000 µg/L), FL-04 (13,000 µg/L), and FL-06 (5,400 µg/L) were greater than the TACO GRO of 5,000 µg/L. The concentration in the filtered samples from FL-03 (16,000 µg/L) was also greater than the TACO GRO, but the concentration in the filtered sample from FL-02 was less than the TACO GRO and iron was not detected in the filtered sample from FL-06. Total iron concentrations in FL-02 and FL-04 have generally increased since Round 1. The dissolved concentrations in FL-02 during Rounds 5, 6, and 7 were less than the TACO GRO, but the dissolved concentrations in FL-04 have been greater than the TACO GRO. The total iron concentration in FL-03 was similar to concentrations detected during Rounds 2 and 4; in contrast, concentrations in FL-03 during Round 3 (April 2007) and 7 (February 2007) were less than the TACO GRO. The total iron concentration in FL-06 was less than the previous two rounds. The iron concentrations from FL-01 and FL-05 were less than the TACO GRO.

- Concentrations of total lead in samples from FL-02 (3.5 µg/L), FL-05 (1.2 µg/L), and FL-06 (2.6 µg/L) were less than the TACO GRO of 7.5 µg/L during Round 7. Lead was not detected in the samples from FL-01, FL-03, and FL-04 during Round 7. These results were similar to those detected during previous rounds. Total lead has been detected at a concentration greater than the TACO GRO in well FL-05 (16 µg/L) during Round 5; however, lead was not detected in the filtered sample from FL-05 during Round 5.

- Total manganese was detected in the sample from FL-06 (170 µg/L) at a concentration greater than the TACO GRO of 150 µg/L; this result was less than the two previous rounds. The manganese concentration (51 µg/L) in the filtered sample from FL-06 was less than the TACO GRO. Similar to previous rounds, total manganese was detected in the remaining samples but at concentrations less than the TACO GRO.

- Total sodium was detected in the Site 2 wells at concentrations from 47,000 to 330,000 µg/L. No TACO GRO or USEPA secondary MCL has been promulgated for sodium. However, the sodium concentrations were greater than the USEPA Drinking Water Equivalency Level (DWEL) of 20,000 µg/L. The results of the filtered samples (45,000 to 85,000 µg/L) were also greater than the USEPA DWEL. The sodium results were similar to those detected during previous rounds.

- Ammonia was detected in the duplicate sample from FL-04 (37 µg/L) at a concentration greater than the criterion of 30 µg/L; the environmental sample from this well was less than the criterion. Ammonia has been detected in FL-04 during previous rounds at concentrations greater than the criterion. Similar to previous rounds ammonia was detected at concentrations less than the criterion in samples from FL-02, FL-03, FL-05, and FL-06 and was not detected in the sample from FL-01.

- Chloride was detected in the sample and duplicate from FL-04 at a concentration (450 milligrams per liter [mg/L]) greater than the USEPA secondary MCL of 200 mg/L. Chloride results in the remaining samples were less than the USEPA secondary MCL. The chloride results were similar to those detected during previous rounds.

- Sulfate was detected in the samples from FL-01 (580 mg/L) and FL-06 (260 mg/L) at concentrations greater than the USEPA secondary MCL of 250 mg/L. Sulfate results in the remaining samples were less than the USEPA secondary MCL. The sulfate results were similar to results detected during previous rounds. Sulfate concentrations in FL-01 have generally increased since Round 1.

- Total dissolved solids (TDS) were detected in the samples from FL-01, FL-03, FL-04, FL-05, and FL-06 at concentrations (580 to 1,400 mg/L) greater than the USEPA secondary MCL of 500 mg/L. The TDS results were similar to results detected during previous rounds. TDS in FL-01 have generally increased since Round 1.

- Oil and grease was detected in the sample from FL-02 (1.1 mg/L) during Round 7.

- Similar to previous rounds, several VOCs, semivolatile organic compounds (SVOCs), and an herbicide were detected in at least one sample during Round 7; however, concentrations were less than TACO GROs. The herbicide (2,4-DB) was detected for the first time during Round 7.

3.3 CONCLUSIONS AND RECOMMENDATIONS

As discussed in Section 1.2, this report for the Round 7 groundwater monitoring at the Forrestal Landfill provides an evaluation of the current analytical results and any data trends (Appendix E) that may be

evident by comparison to data from the previous sampling rounds. The following conclusions are based on seven rounds of groundwater monitoring data at Site 2:

- Exceedances of regulatory monitoring criteria have included mainly inorganics.

- No VOCs were detected at concentrations greater than regulatory monitoring criteria. Only one SVOC [bis(2-ethylhexyl)phthalate] has been detected in one well (FL-01) during Rounds 2 and 3 at concentrations greater than the regulatory criterion; however, the concentrations have been less than the criterion or not detected above the laboratory reporting limit during Rounds 4 through 7. No pesticide, polychlorinated biphenyl (PCBs), or herbicide concentrations exceeded regulatory monitoring criteria.

- Inorganics detected at concentrations greater than regulatory criteria have included aluminum, iron, manganese, arsenic, lead, and vanadium. As illustrated on graphs provided in Appendix E, aluminum concentrations in wells FL-02 and FL-06 and manganese concentrations in FL-06 have increased since monitoring began but have decreased during Rounds 6 and 7. Similar increases were noted for iron in these wells during the same period. Concentrations of aluminum and manganese in other wells have been relatively consistent during Rounds 1 through 7. Concentrations of dissolved constituents have not exceeded regulatory criteria, with the exception of detections of iron and manganese. Concentrations of inorganics do not exceed the regulatory criteria by more than one order of magnitude. Arsenic, lead, and vanadium have been detected at concentrations greater than the regulatory criteria in one well during one round: arsenic in FL-02 during Round 2, and lead and vanadium in FL-05 during Round 5.

- Total and dissolved concentrations of sodium were greater than the USEPA DWEL of 20,000 µg/L during Rounds 1 through 7. The consistency and ubiquitousness of the sodium concentrations suggests that natural levels of sodium may be elevated in the area and that the concentrations are not site-related.

- Water chemistry parameters that exceeded regulatory criteria included ammonia, chloride, sulfate and TDS. These parameters have also been graphed for trend analyses. As shown on graphs in Appendix E, concentrations appear to be stable although slightly greater than the regulatory criteria in some of the monitoring wells. Ammonia and chloride have been detected at concentrations greater than the regulatory criteria in FL-04 only. The highest TDS values have also been detected in FL-04.

For the initial eight quarters of the long-term monitoring, groundwater samples will be collected quarterly and analyzed for the L1 and L2 parameters listed in Table 2-2. Following the eighth quarter, the

monitoring data will be evaluated, and a request may be submitted to the Illinois EPA for consideration for reduction in the frequency of monitoring and in the parameters monitored. Additionally, based on the current data, collection of filtered samples from the six wells for dissolved metals analysis (in addition to total metals) should be considered to evaluate the potential impact of suspended solids on inorganics concentrations for monitoring events following the eight round.

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-01 FL-01_20060816 08/16/2006 QTR01	FL-01 FL-01_20070111 01/11/2007 QTR02	FL-01 FL-01_20070419 04/19/2007 QTR03	FL-01 FL-01_20070808 08/08/2007 QTR04	FL-01 NTC02GW0105 11/13/2007 QTR05	FL-01 NTC02GW0106 02/27/2008 QTR06	FL-01 NTC02GW0107 05/07/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	1.88	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1400	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5	1.09	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	5 U	5 UR	5 UR
TOLUENE	1000	0.861	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.25 J
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.14 J	0.5 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.047 J	0.5 U
2,4-DICHLOROPHENOL	21	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.026 J	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.32 J
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
4-CHLOROANILINE	28	2.5 U	2.5 U	2.5 U	2.72 U	1 U	1 U	1 U
4-METHYLPHENOL	35					0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.088 J
ANTHRACENE	2100	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
BENZALDEHYDE	NA	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	**13.9**	**15.7**	3.15 J	0.49 J	0.5 U	0.5 U
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.5 U	2.5 U	2.72 U	1 U	1 U	1 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.72 U	0.25 J	1 U	1 U
CARBAZOLE	4	2.5 U	2.5 U	2.5 U	2.72 U	0.031 J	0.5 U	0.5 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
DIBENZOFURAN	NA	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.02 J
DIETHYL PHTHALATE	5600	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
DIMETHYL PHTHALATE	NA	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.72 U	1 U	1 U	1 U
DI-N-OCTYL PHTHALATE	140	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
FLUORENE	280	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
ISOPHORONE	1400	2.5 U	2.5 U	2.5 U	2.72 U	0.50 U	0.032 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.062 J	0.5 U	9.3
PENTACHLOROPHENOL	1	12.5 U	12.5 U	12.5 U	13.6 U	0.47 J	1 U	1 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
PHENOL	100	8.52	2.5 U	2.5 U	2.72 U	0.50 U	0.5 U	0.5 U
PYRENE	210	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.255 U	0.255 U	0.255 U	0.255 U	0.20 U	0.2 U	0.2 UJ
ENDOSULFAN I	42	0.0102 U	0.0102 U	0.0102 U	0.0109 U	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0102 U	0.0102 U	0.0109 U	0.05 U	0.05 U	0.05 UJ
GAMMA-CHLORDANE	2	0.0102 U	0.0102 U	0.0102 U	0.0109 U	0.05 U	0.05 U	0.05 UJ
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U	0.7 U	0.7 U		1 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-01 FL-01_20060816 08/16/2006 QTR01	FL-01 FL-01_20070111 01/11/2007 QTR02	FL-01 FL-01_20070419 04/19/2007 QTR03	FL-01 FL-01_20070808 08/08/2007 QTR04	FL-01 NTC02GW0105 11/13/2007 QTR05	FL-01 NTC02GW0106 02/27/2008 QTR06	FL-01 NTC02GW0107 05/07/2008 QTR07
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1 U	1 U	0.524 U	2 U	2 UJ	2 U
DINOSEB	7	0.5 U	0.5 U	0.5 U	0.262 U	1 U	1 U	1 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.69 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	50 U	136	50 U	50 U	44 U	44 U	20 U
ANTIMONY	6	1.25	0.627	0.469	0.338 J	0.72 U	0.44 U	0.36 U
ARSENIC	50	5 U	5 U	5 U	5 U	0.83	0.74 U	0.26
BARIUM	2000	58.5	44.8	40.1	33.8	33	31	29
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U	0.31 U	0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.068	0.062 U	0.056 U
CALCIUM	NA	95400	107000	129000	150000	120000 J	130000	140000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	0.37 U	0.31 U	0.61
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	0.57	0.36	0.25
COPPER	650	5 U	5 U	5 U	5 U	1.7	0.70 J	1.3
IRON	5000	29.1	253	25 U	25 U	28 U	5.7 U	23
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U	0.33 U	0.29 U
MAGNESIUM	NA	92600	108000	140000	155000	120000 J	140000	160000
MANGANESE	150	43.1	99.1	40.7	58.2	73	34	15
MERCURY	2	0.10 U	0.10 U	0.10 U	0.10 U	0.055 U	0.046 U	0.046 U
NICKEL	100	5 U	5 U	5 U	5 U	5.5	4.3	5.8
POTASSIUM	NA	4240	4300	4010	4250	4300	4200	4000
SELENIUM	50	1.38	1.99	2.23	1.95	0.92 U	1.5	0.37
SILVER	50	5 U	5 U	5 U	5 U	0.12 U	0.12 U	0.061 U
SODIUM	NA	52400	63300	59800	67800	64000 J	65000	67000
THALLIUM	2	0.318	0.05 U	0.05 U	0.05 U	0.17 U	0.17 U	0.05 U
VANADIUM	49	9.89	5 U	5 U	100 U	0.83 U	0.83 U	0.43
ZINC	5000	5 U	5 U	5 U	5 U	13	0.84 U	5.4 U
TOTAL ESSENTIAL NUTRIENTS	1200000	244640	282600	332810	377050	308300	339200	371000
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.157	0.434	0.186	0.241	0.14	0.049	0.004 U
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1.4	2.15	1 U	2 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	17	10 U	10 U	13.7 J	4.9 R	3.7	3.4
CHLORIDE (MG/L)	200	22.4	29.6	33.4	38.6	26	36	47
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001900 U	0.0028 U
FLUORIDE (MG/L)	2	0.529	0.571	0.498	0.513	0.53	0.54	0.48
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 U	0.0041 UJ
NITRATE (MG/L)	10	0.611	0.162	0.377	0.11			
NITRATE-N (MG/L)	10000					0.082	0.27	0.28
NITRITE/NITRATE-N (MG/L)	10000					0.086	0.27	0.28 U
NITRITE-N (MG/L)	1000					0.0043	0.0029 U	0.0029 U
PH (S.U.)	6.5 - 8.5	7.12	7.04	7.13				
SULFATE (MG/L)	250	**327**	**406**	**526**	**511**	**420 J**	**470**	**580**
TOTAL DISSOLVED SOLIDS (MG/L)	500	**958**	**958**	**1240**	**1200**	**1100**	**1200**	**1400**
TOTAL ORGANIC CARBON (MG/L)	NA	7.68	2.94	1.17	0.5 U	3.4	1.5	2.3
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00467	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.095	0.05 U	0.1 U	0.01 UR	0.012	0.012
TOTAL SUSPENDED SOLIDS (MG/L)	NA	2.5 U	5.5	3	2.5 U	3.3 UJ	3.300000 U	3.3 U
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					6.89	6.93	6.95

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-02 FL-02_20060830 08/30/2006 QTR01	FL-02 FL-02_20070129 01/29/2007 QTR02	FL-02 FL-02_20070418 04/18/2007 QTR03	FL-02 FL-02_20070815 08/15/2007 QTR04	FL-02 NTC02GW0205 11/14/2007 QTR05	FL-02 NTC02GW0206 02/26/2008 QTR06	FL-02 NTC02GW0207 05/08/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	5 U
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.491 J	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1400	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	5 U	5 UR	5 UR
TOLUENE	1000	0.34	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	21	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
4-CHLOROANILINE	28	2.5 U	2.5 U	2.5 U	2.5 U	1 U	1 U	1 U
4-METHYLPHENOL	35					0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
ANTHRACENE	2100	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
BENZALDEHYDE	NA	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.5 U	0.44 J	0.5 U	0.91
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.5 U	2.5 U	2.5 U	0.048 J	1 U	1 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.5 U	1 U	0.24 J	1 U
CARBAZOLE	4	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
DIBENZOFURAN	NA	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.018 J	0.029 J
DIETHYL PHTHALATE	5600	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
DIMETHYL PHTHALATE	NA	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.5 U	0.80 J	0.54 J	1.7
DI-N-OCTYL PHTHALATE	140	3.05	7.56	2.5 U	2.5 U	0.50 U	0.5 U	0.59
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.046 J	0.5 U
FLUORENE	280	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
ISOPHORONE	1400	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.048 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.5 U
PENTACHLOROPHENOL	1	12.5 U	12.5 U	12.5 U	12.5 U	1 U	1 U	1 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.038 J	0.14 J	0.17 J
PHENOL	100	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.5 U	0.5 U
PYRENE	210	0.0526 U	0.0526 U	0.0526 U	0.0549 U	0.50 U	0.5 U	0.049 J
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.255 U	0.255 U	0.255 U	0.266 U	0.20 U	0.2 U	0.2 U
ENDOSULFAN I	42	0.0102 U	0.0102 U	0.0102 U	0.0106 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0102 U	0.0102 U	0.0106 U	0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	2	0.0102 U	0.0102 U	0.0102 U	0.0106 U	0.0032 R	0.05 U	0.05 U
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U	0.7 U	0.7 U	0.7 U	1 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-02 FL-02_20060830 08/30/2006 QTR01	FL-02 FL-02_20070129 01/29/2007 QTR02	FL-02 FL-02_20070418 04/18/2007 QTR03	FL-02 FL-02_20070815 08/15/2007 QTR04	FL-02 NTC02GW0205 11/14/2007 QTR05	FL-02 NTC02GW0206 02/26/2008 QTR06	FL-02 NTC02GW0207 05/08/2008 QTR07
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1 U	1 U	0.549 U	2 U	2 UJ	2 U
DINOSEB	7	0.5 U	0.5 U	0.5 U	0.275 U	1 U	1 UJ	1 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.62 U	5 U	5 U	1.1 J
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	2000	368	**5150**	**5580**	**8800 J / 44 U**	**6800 J / 52**	**6900 / 20 U**
ANTIMONY	6	0.829	0.25 U	1.65	1.68	0.44 U / 0.44 U	0.44 U / 0.44 U	0.32 U / 0.32 U
ARSENIC	50	21.1	5.05	30	**70.3**	3.8 / 3.1	3.6 / 2.7	3.5 / 2.9
BARIUM	2000	80.2	41.8	88.7	89.8	89 / 46	80 / 44	84 / 53
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.55 / 0.31 U	0.47 / 0.31 U	0.33 / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.24 / 0.062 U	0.15 / 0.062 U	0.13 / 0.056 U
CALCIUM	NA	32700	25900	35800	38400	44000 J / 29000 J	41000 / 28000 J	44000 / 33000
CHROMIUM	100	3.89	2.5 U	7.38	7.72 J	12 / 2	11 / 0.31 U	9.3 / 1.2
COBALT	1000	2.5 U	2.5 U	2.92	2.5 U	5.4 / 0.096 U	4.2 / 0.096 U	3.9 / 0.17
COPPER	650	5 U	5 U	8.37	7.47 J	9.8 / 0.73	8.8 J / 0.61	7.5 / 0.84
IRON	5000	1800	387	4750	4550	**8400 J / 8 U**	**7300 / 64**	**7300 / 9.6 U**
LEAD	7.5	3.16	2.5 U	2.5 U	4.25 J	4.7 / 0.33 U	3.5 / 0.33 U	3.5 / 0.29 U
MAGNESIUM	NA	16500	16000	18700	18500	26000 J / 19000 J	26000 / 20000 J	29000 / 24000
MANGANESE	150	56.3	19.8	87.7	80.8	**160 / 9.1**	130 / 8.4	120 / 7.5
MERCURY	2	0.10 U	0.10 U	0.10 U	0.10 U	0.087 U / 0.046 U	0.046 U / 0.046 U	0.046 U / 0.046 U
NICKEL	100	5 U	5 U	7.47	5.78 J	16 / 0.90	13 / 0.90	12 / 1.4
POTASSIUM	NA	2320	1400	3550	3760	4900 / 1300	4000 / 1200	4300 / 1300
SELENIUM	50	0.50 U	0.50 U	0.563	0.50 U	0.92 U / 0.92 U	0.92 U / 0.92 U	0.30 U / 0.62
SILVER	50	5 U	5 U	5 U	5 U	0.12 U / 0.12 U	0.12 U / 0.12 U	0.061 U / 0.061 UJ
SODIUM	NA	52100	53900	52300	51800	57000 J / 57000 J	59000 / 57000 J	60000 / 62000
THALLIUM	2	0.196	0.05 U	0.05 U	0.064 J	0.17 U / 0.17 U	0.17 U / 0.17 U	0.099 / 0.05 U
VANADIUM	49	10.2	5 U	9.69	5 U	16 / 0.83 U	13 / 0.83 U	11 / 0.56
ZINC	5000	8.09	5 U	16.4	14.3 J	24 J / 5.2	20 / 0.84 U	16 U / 2.1
TOTAL ESSENTIAL NUTRIENTS	1200000	103620	97200	110350	112460	131900 / 106300	130000 / 106200	137300 / 120300
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.345	0.313	0.235	0.337	0.33	0.33	0.35
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1 U	1 U	1 U	2 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	12.3	10 U	10 U	16.4 J	10 R	8.4	11
CHLORIDE (MG/L)	200	7.53	15.1	15.5	22.6	40	45	61
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001900 U	0.0024 U
FLUORIDE (MG/L)	2	0.883	0.893	0.807	0.855	0.75	0.78	0.74
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0064	0.0041	0.0041 UJ
NITRATE (MG/L)	10	0.071	0.025 U	0.025 U	0.025 U			
NITRATE-N (MG/L)	10000					0.029 U	0.021	0.018 J
NITRITE/NITRATE-N (MG/L)	10000					0.029 U	0.026	0.022 U
NITRITE-N (MG/L)	1000					0.0029 U	0.0048	0.0037 J
PH (S.U.)	6.5 - 8.5	8.04	8.39	7.25	7.64			
SULFATE (MG/L)	250	94.5	106	90.2	95.5	110 J	110	140
TOTAL DISSOLVED SOLIDS (MG/L)	500	330	264	346	344	380	400	470
TOTAL ORGANIC CARBON (MG/L)	NA	5.59	1.13	1.77	0.5 U	2.2	1.4	1.4
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.052	0.05 U	0.05 U	0.116 J	0.10 J	0.078	0.1
TOTAL SUSPENDED SOLIDS (MG/L)	NA	12.5	2.5 U	91.5	85	91	220	80
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					8.36	**8.78**	8.38

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-03 FL-03_20060831 08/31/2006 QTR01	FL-03 FL-03_20070118 01/18/2007 QTR02	FL-03 FL-03_20070118-D 01/18/2007 QTR02 FL-03_20070118	FL-03 FL-03_20070424 04/24/2007 QTR03	FL-03 FL-03_20070424-D 04/24/2007 QTR03 FL-03_20070424	FL-03 FL-03_20070813 08/13/2007 QTR04	FL-03 FL-03_20070813-D 08/13/2007 QTR04 FL-03_20070813
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.152 J
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
BENZENE	5	0.125 U	0.125 U	0.176 J	0.138	0.125 U	0.19 J	0.125 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.04	0.984 J
CIS-1,2-DICHLOROETHENE	70	0.372	0.514	0.574 J	0.569	0.632 J	0.631 J	0.77 J
DICHLORODIFLUOROMETHANE	1400	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
METHYLENE CHLORIDE	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	25 U	25 U	25 U
TOLUENE	1000	0.413	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
2,4-DICHLOROPHENOL	21	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
4-CHLOROANILINE	28	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
4-METHYLPHENOL	35							
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
ANTHRACENE	2100	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
BENZALDEHYDE	NA	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.86	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	3.61 J
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
CARBAZOLE	4	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
DIBENZOFURAN	NA	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
DIETHYL PHTHALATE	5600	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
DIMETHYL PHTHALATE	NA	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
DI-N-OCTYL PHTHALATE	140	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
FLUORENE	280	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
ISOPHORONE	1400	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
PENTACHLOROPHENOL	1	12.5 U	12.5 U	14.3 U	12.5 U	12.8 U	12.5 U	12.8 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
PHENOL	100	2.5 U	2.5 U	2.86 U	2.5 U	2.55 U	2.5 U	2.55 U
PYRENE	210	0.0526 U	0.0526 U	0.0562 U	0.0526 U	0.051 U	0.0532 U	0.0543 U
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.255 U	0.255 U	0.25 U	0.255 U	0.266 U	0.269 U	0.263 U
ENDOSULFAN I	42	0.0102 U	0.0102 U	0.01 U	0.0102 U	0.0106 U	0.0108 U	0.0105 U
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0102 U	0.01 U	0.0102 U	0.0106 U	0.0108 U	0.0105 U
GAMMA-CHLORDANE	2	0.0102 U	0.0102 U	0.01 U	0.0102 U	0.0106 U	0.0108 U	0.0105 U
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U	0.7 U		0.7 U	0.7 U	0.7 U	0.7 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-03 FL-03_20060831 08/31/2006 QTR01	FL-03 FL-03_20070118 01/18/2007 QTR02	FL-03 FL-03_20070118-D 01/18/2007 QTR02 FL-03_20070118	FL-03 FL-03_20070424 04/24/2007 QTR03	FL-03 FL-03_20070424-D 04/24/2007 QTR03 FL-03_20070424	FL-03 FL-03_20070813 08/13/2007 QTR04	FL-03 FL-03_20070813-D 08/13/2007 QTR04 FL-03_20070813
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1 U	0.526 U	1 U	0.5 U	0.521 U	0.543 U
DINOSEB	7	0.5 U	0.5 U	0.263 U	0.5 U	0.25 U	0.26 U	0.272 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.53 U	2.55 U	2.72 U	2.69 U	2.72 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	50 U	50 U	50 U	50 U	50 U	50 U	50 U
ANTIMONY	6	0.897	0.545	0.25 U	0.312	0.25 U	0.25 U	0.25 U
ARSENIC	50	11.7	13.1	13	5 U	5 U	8.07 J	6.14 J
BARIUM	2000	349	347	335	303	283	344	347
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CALCIUM	NA	182000	177000	173000	189000	183000	171000	168000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
COBALT	1000	4.47	3.84	3.83 J	3.05	2.99 J	3.39 J	3.32 J
COPPER	650	5 U	5 U	5 U	5 U	5 U	5 U	5 U
IRON	5000	**11500**	**15200**	**14600**	2740	2730	**15000**	**14700**
LEAD	7.5	2.5 U	2.5 U	5 U	2.5 U	2.5 U	25 U	25 U
MAGNESIUM	NA	89500	95500	90400	93600	89900	90100	91300
MANGANESE	150	**236**	150	144	96.3	90	106	107
MERCURY	2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
NICKEL	100	13.8	14.9	14 J	14.8	14.3 J	13.9 J	13.7 J
POTASSIUM	NA	3220	2930	2820	2260	2230	2600	2630
SELENIUM	50	2.53	5.34	7.62	6.02	7.41	8.97	9.75
SILVER	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SODIUM	NA	64600	73900	70500	68200	66100	66500	65700
THALLIUM	2	1.77	0.06	0.054 J	0.061	0.064 J	0.665	0.818
VANADIUM	49	11.7	5 U	10 U	5 U	5 U	50 U	50 U
ZINC	5000	5 U	5 U	11.1 J	5 U	5 U	5 U	5 U
TOTAL ESSENTIAL NUTRIENTS	1200000	339320	349330	336720	353060	341230	330200	327630
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.325	0.255	0.236	0.157	0.179	0.229	0.222
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1.3	2.3	2.6 J	1.6	1.66 J	1 U	1 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	35.5	37	40	42.5	42.9	44.8	36
CHLORIDE (MG/L)	200	110	132	129	145	133	123	125
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
FLUORIDE (MG/L)	2	0.269	0.271	0.288	0.217	0.187	0.319	0.28
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITRATE (MG/L)	10	0.025 U	0.054	0.05	0.025 U	0.025 U	0.025 U	0.025 U
NITRATE-N (MG/L)	10000							
NITRITE/NITRATE-N (MG/L)	10000							
NITRITE-N (MG/L)	1000							
PH (S.U.)	6.5 - 8.5	6.73	6.67	6.7	6.72	6.77	6.77	6.77
SULFATE (MG/L)	250	28.6	21.4	19.3	26.3	21.5	23.1	23
TOTAL DISSOLVED SOLIDS (MG/L)	500	**1010**	**890**	**840**	**1080**	**1090**	**1010**	**976**
TOTAL ORGANIC CARBON (MG/L)	NA	25	26.1	28.3	18.9	20.8	8.6	7.05
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00333 U	0.003 U	0.00333 U	0.00333 U	0.00333 U	0.00333 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U
TOTAL SUSPENDED SOLIDS (MG/L)	NA	23.5	19	16	7	6.5	15	20
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5							

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-03 NTC02GW0305 11/14/2007 QTR05	FL-03 NTC02GW0306 02/27/2008 QTR06	FL-03 NTC02GW0307 05/08/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)				
1,1-DICHLOROETHANE	700	1 U	1 U	1 U
ACETONE	6300	5 U	5 U	5 U
BENZENE	5	0.17 J	1 U	0.18 J
CHLOROMETHANE	160	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	0.73 J	0.74 J	0.74 J
DICHLORODIFLUOROMETHANE	1400	1 U	1 U	1 U
METHYLENE CHLORIDE	5	1 UJ	1 U	1 U
TETRAHYDROFURAN	NA	5 U	5 UR	4 J
TOLUENE	1000	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)				
1,1-BIPHENYL	NA	0.50 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.50 U	0.5 U	0.5 U
2,4,5-TRICHLOROPHENOL	700	0.50 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	10	0.50 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	21	0.50 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.50 U	0.5 U	0.5 U
4-CHLORO-3-METHYLPHENOL	NA	0.50 U	0.5 U	0.5 U
4-CHLOROANILINE	28	1 U	1 U	1 U
4-METHYLPHENOL	35	0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.50 U	0.013 J	0.5 U
ANTHRACENE	2100	0.50 U	0.017 J	0.5 U
BENZALDEHYDE	NA	1.8	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.50 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.2	0.50 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.44 J	0.5 U	0.5
BUTYL BENZYL PHTHALATE	1400	1 U	0.049 J	1 U
CAPROLACTAM	3500	0.44 J	0.43 J	1 U
CARBAZOLE	4	0.50 U	0.5 U	0.5 U
CHRYSENE	1.5	0.50 U	0.5 U	0.5 U
DIBENZOFURAN	NA	0.50 U	0.5 U	0.5 U
DIETHYL PHTHALATE	5600	0.50 U	0.048 U	0.5 U
DIMETHYL PHTHALATE	NA	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	1 U	1 U	3.4
DI-N-OCTYL PHTHALATE	140	0.50 U	0.5 U	0.59
FLUORANTHENE	280	0.50 U	0.5 U	0.5 U
FLUORENE	280	0.50 U	0.5 U	0.5 U
ISOPHORONE	1400	0.50 U	0.055 U	0.5 U
NAPHTHALENE	140	0.097 J	0.5 U	0.5 U
PENTACHLOROPHENOL	1	1 U	1 U	0.29 J
PHENANTHRENE	NA	0.50 U	0.019 J	0.5 U
PHENOL	100	0.50 U	0.5 U	0.5 U
PYRENE	210	0.50 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)				
AROCLOR-1254	0.5	0.20 U	0.2 U	0.2 UR
ENDOSULFAN I	42	0.05 U	0.05 U	0.05 UR
GAMMA-BHC (LINDANE)	0.2	0.05 U	0.05 U	0.05 UR
GAMMA-CHLORDANE	2	0.05 U	0.05 U	0.05 UR
CARBAMATE UREA PESTICIDES (UG/L)				
ALDICARB SULFONE	3	1 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-03 NTC02GW0305 11/14/2007 QTR05	FL-03 NTC02GW0306 02/27/2008 QTR06	FL-03 NTC02GW0307 05/08/2008 QTR07
HERBICIDES (UG/L)				
2,4-DB	290	2 U	2 UJ	2 U
DINOSEB	7	1 U	1 U	1 U
PETROLEUM HYDROCARBONS (MG/L)				
OIL & GREASE - HEM	NA	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)				
ALUMINUM	3500	44 U	44 U / 44 U	20 U / 20 U
ANTIMONY	6	0.44 U	0.44 U / 0.44 U	0.32 U / 0.32 U
ARSENIC	50	20	6 / 2.1	14 / 11
BARIUM	2000	340	290 / 260	340 / 320
BERYLLIUM	4	0.31 U	0.31 U / 0.31 U	0.23 U / 0.23 U
CADMIUM	5	0.062 U	0.062 U / 0.062 U	0.056 U / 0.056 U
CALCIUM	NA	170000	180000 / 170000	170000 / 190000
CHROMIUM	100	0.31 U	0.31 U / 0.31 U	0.33 U / 2.7
COBALT	1000	3.7	3.2 / 3.1	4.3 / 4.3
COPPER	650	0.80	2.3 J / 2.4 J	0.63 / 0.6
IRON	5000	**12000 J**	3800 / 310	**16000 / 16000**
LEAD	7.5	0.33 U	0.33 U / 0.33 U	0.29 U / 0.29 U
MAGNESIUM	NA	86000 J	89000 / 88000	89000 / 97000
MANGANESE	150	96	76 / 73	83 / 85
MERCURY	2	0.059 U	0.046 U / 0.046 U	0.046 U / 0.046 U
NICKEL	100	17	16 / 16	22 / 22
POTASSIUM	NA	2600	2100 / 2000	2100 / 2100
SELENIUM	50	0.92 U	2.1 / 1.6	1.8 / 1.1
SILVER	50	0.12 U	0.12 U / 0.12 U	0.061 U / 0.061 UJ
SODIUM	NA	62000 J	78000 / 75000	76000 / 85000
THALLIUM	2	0.17 U	0.17 U / 0.17 U	0.05 U / 0.086
VANADIUM	49	0.83 U	0.83 U / 0.83 U	0.27 U / 3.9
ZINC	5000	7.4 J	0.84 U / 0.84 U	7 U / 8.8
TOTAL ESSENTIAL NUTRIENTS	1200000	320600	349100 / 335000	337100 / 374100
MISCELLANEOUS PARAMETERS				
AMMONIA-N (MG/L)	30	0.17 J	0.13	0.17
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	2 U	2 U	2.7
CHEMICAL OXYGEN DEMAND (MG/L)	NA	24 J	35	53 U
CHLORIDE (MG/L)	200	110 J	140	150
CYANIDE (MG/L)	200	0.005 U	0.001900 U	0.0032 U
FLUORIDE (MG/L)	2	0.30	0.25	0.25
HEXAVALENT CHROMIUM (MG/L)	0.1	0.0041 U	0.0041 U	0.0041 UJ
NITRATE (MG/L)	10			
NITRATE-N (MG/L)	10000	0.029 U	0.016 U	0.022 J
NITRITE/NITRATE-N (MG/L)	10000	0.029 U	0.016 U	0.022 U
NITRITE-N (MG/L)	1000	0.0029 U	0.0055	0.0029 U
PH (S.U.)	6.5 - 8.5			
SULFATE (MG/L)	250	17	21	20
TOTAL DISSOLVED SOLIDS (MG/L)	500	**970**	**1000**	**1100**
TOTAL ORGANIC CARBON (MG/L)	NA	15	9.2	0.16 U
TOTAL PHENOLICS (MG/L)	0.1	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.018 R	0.026	0.039
TOTAL SUSPENDED SOLIDS (MG/L)	NA	50	9.6	37
FIELD RESULTS				
PH (S.U.)	6.5 - 8.5	6.65	6.6	6.5

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-04 FL-04_20060822 08/22/2006 QTR01	FL-04 FL-04_20060822-D 08/22/2006 QTR01 FL-04_20060822	FL-04 FL-04_20070130 01/30/2007 QTR02	FL-04 FL-04_20070430 04/30/2007 QTR03	FL-04 FL-04_20070816 08/16/2007 QTR04	FL-04 NTC02GW0405 11/13/2007 QTR05	FL-04 NTC02GW0405-D 11/13/2007 QTR05 NTC02GW0405
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U
ACETONE	6300	2.5 U	2.5 U	3.77	4.82	2.5 U	5 U	5 U
BENZENE	5	0.765	0.641 J	0.702	0.822	1.23	1.2	1.2
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	1.57	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	0.25 U	0.25 U	0.25 U	0.25 U	0.312 J	0.40 J	0.41 J
DICHLORODIFLUOROMETHANE	1400	0.493	0.25 U	0.25 U	0.25 U	0.457 J	1 U	0.35 J
METHYLENE CHLORIDE	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	25 U	14	13
TOLUENE	1000	0.495	0.414 J	0.25 U	0.25 U	0.25 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.5 U	2.5 U	2.81 U	0.14 J	0.50 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
2,4-DICHLOROPHENOL	21	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
4-CHLOROANILINE	28	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	1 U	1 U
4-METHYLPHENOL	35						0.50 U	0.50 U
ACENAPHTHENE	420	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
ANTHRACENE	2100	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
BENZALDEHYDE	NA	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	2.5	2.5
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.83	0.50 U
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	1 U	1 U
CAPROLACTAM	3500	2.5 U	2.6 U	2.5 U	5.48	2.81 U	1 U	1 U
CARBAZOLE	4	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
CHRYSENE	1.5	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
DIBENZOFURAN	NA	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
DIETHYL PHTHALATE	5600	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
DIMETHYL PHTHALATE	NA	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	1 U	1 U
DI-N-OCTYL PHTHALATE	140	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
FLUORANTHENE	280	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
FLUORENE	280	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
ISOPHORONE	1400	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
NAPHTHALENE	140	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.059 J	0.095 J
PENTACHLOROPHENOL	1	12.5 U	13 U	0.413	12.5 U	14 U	1 U	1 U
PHENANTHRENE	NA	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
PHENOL	100	2.5 U	2.6 U	2.5 U	2.5 U	2.81 U	0.50 U	0.50 U
PYRENE	210	0.0526 U	0.0538 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.50 U
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.255 U	0.263 U	0.255 U	0.255 U	0.281 U	0.20 U	0.21 U
ENDOSULFAN I	42	0.0102 U	0.0105 U	0.0102 U	0.0102 U	0.0112 U	0.05 U	0.0036 J
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0105 U	0.0102 U	0.0102 U	0.0112 U	0.05 U	0.053 U
GAMMA-CHLORDANE	2	0.0102 U	0.0105 U	0.0102 U	0.0102 U	0.0112 U	0.05 U	0.053 U
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U		0.7 U	0.7 U	0.7 U	1 U	0.835 J

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-04 FL-04_20060822 08/22/2006 QTR01	FL-04 FL-04_20060822-D 08/22/2006 QTR01 FL-04_20060822	FL-04 FL-04_20070130 01/30/2007 QTR02	FL-04 FL-04_20070430 04/30/2007 QTR03	FL-04 FL-04_20070816 08/16/2007 QTR04	FL-04 NTC02GW0405 11/13/2007 QTR05	FL-04 NTC02GW0405-D 11/13/2007 QTR05 NTC02GW0405
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1.05 U	1 U	1 U	0.532 U	2 U	2.2 U
DINOSEB	7	0.5 U	0.526 U	2.55	0.5 U	0.266 U	1 U	1.1 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.63 U	2.55 U	2.55 U	2.75 U	5 U	5 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	305	331	50 U	50 U	50 U	44 U	44 U
ANTIMONY	6	1.18	1.19	1.87	1.06	2.42	1 U	1.2 U
ARSENIC	50	7.63	8 J	11.2	5 U	5 U	6.4	5.5
BARIUM	2000	1150	1160	1330	1200	1300	1200	1200
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U	0.31 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.062 U	0.062 U
CALCIUM	NA	234000	243000	251000	231000	206000	230000 J	240000 J
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.5	1.4
COBALT	1000	10.5	10.6 J	10.3	8.21	6.83 J	7.4	7.3
COPPER	650	5 U	5 U	5 U	5 U	5 U	1.1	1.2
IRON	5000	**8590**	**8730**	**13200**	**13000**	**10600**	**12000 J**	**12000 J**
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	50 U	0.33 U	0.61
MAGNESIUM	NA	141000	143000	173000	153000	143000	150000 J	150000 J
MANGANESE	150	**174**	**177 B**	**151**	147	117	130	140
MERCURY	2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.084 U	0.092 U
NICKEL	100	24.9	24.7 J	24.6	17.8	12.8 J	20	23
POTASSIUM	NA	25900	26100	29900	26900	55200	32000 J	33000 J
SELENIUM	50	16.8	17.7	22.8	23.5	24.7	0.92 U	0.92 U
SILVER	50	5 U	5 U	5 U	5 U	5 U	0.12 U	0.12 U
SODIUM	NA	316000	327000	415000	379000	340000	350000	350000
THALLIUM	2	0.592	0.61	0.05 U	0.744	0.727	0.17 U	0.17 U
VANADIUM	49	8.37	12	5 U	5 U	100 U	1.6	1.6
ZINC	5000	5 U	5 U	5 U	5 U	5 U	10	11
TOTAL ESSENTIAL NUTRIENTS	1200000	716900	739100	868900	789900	744200	762000	773000
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	21.8	23.1	28.8	**40.1**	**48**	29 J	29 J
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	8.6	8.4	7.1	6.99	10.9	7	9.8
CHEMICAL OXYGEN DEMAND (MG/L)	NA	250	250	214	171	168	38 J	38 J
CHLORIDE (MG/L)	200	**501**	**499**	**697**	**485**	**463**	**500**	**490**
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0015	0.0015
FLUORIDE (MG/L)	2	0.194	0.185	0.238	0.121	0.226	0.17	0.18
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U		0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 U
NITRATE (MG/L)	10	0.069	0.062	0.025 U	0.025 U	0.036 J		
NITRATE-N (MG/L)	10000						0.029 U	0.029 U
NITRITE/NITRATE-N (MG/L)	10000						0.029 U	0.029 U
NITRITE-N (MG/L)	1000						0.0029 U	0.0029 U
PH (S.U.)	6.5 - 8.5	6.86	6.97	**6.47**	6.78	6.84		
SULFATE (MG/L)	250	27.7	28	32.4	24.4	14	3.9	3.1
TOTAL DISSOLVED SOLIDS (MG/L)	500	**2210**	**2190**	**2310**	**2250**	**2090**	**2100**	**2100**
TOTAL ORGANIC CARBON (MG/L)	NA	64.5	67.4	73.4	70.3	34	48	49
TOTAL PHENOLICS (MG/L)	0.1	0.00406	0.0037 J	0.00333 U	0.00575	0.00491 J	0.0038	0.05 U
TOTAL PHOSPHORUS (MG/L)	NA	0.107	0.127	0.05 U	0.128	0.263	0.22 J	0.25 J
TOTAL SUSPENDED SOLIDS (MG/L)	NA	39	39	36	33	24.5	51 J	190 J
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5						6.5	

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-04 NTC02GW0406 02/26/2008 QTR06	FL-04 NTC02GW0406-D 02/26/2008 QTR06 NTC02GW0406	FL-04 NTC02GW0407 05/07/2008 QTR07	FL-04 NTC02GW0407-D 05/07/2008 QTR07 NTC02GW0407
VOLATILE ORGANIC COMPOUNDS (UG/L)					
1,1-DICHLOROETHANE	700	1 U	1 U	1 U	1 U
ACETONE	6300	5 U	5 U	5 UJ	5 U
BENZENE	5	0.91 J	0.88 J	0.73 J	1
CHLOROMETHANE	160	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	1 U	1 U	0.31 J	0.34 J
DICHLORODIFLUOROMETHANE	1400	0.35 J	0.35 J	0.26 J	0.37 J
METHYLENE CHLORIDE	5	1 U	1 U	1 U	1 U
TETRAHYDROFURAN	NA	19 J	18 J	11 J	13 J
TOLUENE	1000	1 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)					
1,1-BIPHENYL	NA	0.087 J	0.11 J	0.54 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.5 U	0.5 U	0.54 U	0.5 U
2,4,5-TRICHLOROPHENOL	700	0.5 U	0.5 U	0.54 U	0.5 U
2,4,6-TRICHLOROPHENOL	10	0.5 U	0.5 U	0.54 U	0.5 U
2,4-DICHLOROPHENOL	21	0.5 U	0.5 U	0.54 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.5 U	0.5 U	0.54 U	0.5 U
4-CHLORO-3-METHYLPHENOL	NA	0.5 U	0.22 J	0.54 U	0.5 U
4-CHLOROANILINE	28	1 U	1 U	0.45 J	1 U
4-METHYLPHENOL	35	0.5 U	0.5 U	0.23 J	0.5 U
ACENAPHTHENE	420	0.5 U	0.5 U	0.54 U	0.02 J
ANTHRACENE	2100	0.016 J	0.041 J	0.54 U	0.5 U
BENZALDEHYDE	NA	0.5 U	0.5 U	0.58 J	1.2 J
BENZO(A)ANTHRACENE	0.13	0.5 U	0.5 U	0.54 U	0.5 U
BENZO(A)PYRENE	0.2	0.5 U	0.5 U	0.54 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.57	0.5 U	0.54 U	0.5 U
BUTYL BENZYL PHTHALATE	1400	0.11 J	1 U	1.1 U	1 U
CAPROLACTAM	3500	1.2 J	1.5	1.1 U	1.7
CARBAZOLE	4	0.5 U	0.5 U	0.54 U	0.5 U
CHRYSENE	1.5	0.5 U	0.5 U	0.54 U	0.5 U
DIBENZOFURAN	NA	0.5 U	0.5 U	0.54 U	0.5 U
DIETHYL PHTHALATE	5600	0.15 U	0.14 U	0.075 J	0.071 J
DIMETHYL PHTHALATE	NA	0.5 U	0.13 J	0.54 U	0.5 U
DI-N-BUTYL PHTHALATE	700	1 U	1 U	1.1 U	1 U
DI-N-OCTYL PHTHALATE	140	0.5 U	0.5 U	0.54 U	0.5 U
FLUORANTHENE	280	0.5 U	0.5 U	0.54 U	0.041 J
FLUORENE	280	0.5 U	0.5 U	0.032 J	0.041 J
ISOPHORONE	1400	0.12 U	0.11 U	0.11 J	0.5 U
NAPHTHALENE	140	0.5 U	0.5 U	0.054 J	0.031 J
PENTACHLOROPHENOL	1	1 U	1 U	1.1 U	1 U
PHENANTHRENE	NA	0.5 U	0.047 J	0.022 J	0.5 U
PHENOL	100	0.5 U	0.5 U	0.54 U	0.5 U
PYRENE	210	0.5 U	0.5 U	0.54 U	0.5 U
PESTICIDES/PCBs (UG/L)					
AROCLOR-1254	0.5	0.2 U	0.2 U	0.2 UJ	0.2 UJ
ENDOSULFAN I	42	0.05 U	0.05 U	0.05 UJ	0.05 UJ
GAMMA-BHC (LINDANE)	0.2	0.05 U	0.0035 J	0.05 UJ	0.05 UJ
GAMMA-CHLORDANE	2	0.05 U	0.05 U	0.05 UJ	0.05 UJ
CARBAMATE UREA PESTICIDES (UG/L)					
ALDICARB SULFONE	3	2.5 U	2.5 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-04 NTC02GW0406 02/26/2008 QTR06	FL-04 NTC02GW0406-D 02/26/2008 QTR06 NTC02GW0406	FL-04 NTC02GW0407 05/07/2008 QTR07	FL-04 NTC02GW0407-D 05/07/2008 QTR07 NTC02GW0407
HERBICIDES (UG/L)					
2,4-DB	290	20 UJ	20 UJ	1.2 J	0.83 J
DINOSEB	7	10 U	10 UJ	1 U	1 U
PETROLEUM HYDROCARBONS (MG/L)					
OIL & GREASE - HEM	NA	5 U	5 U	0.830000 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)					
ALUMINUM	3500	44 U / 44 U	44 U / 44 U	20 U	20 U
ANTIMONY	6	1.3 / 1.1	1.3 / 1.3	0.93 U	0.95 U
ARSENIC	50	7 / 7.2	7.2 / 6.8	8	6.3
BARIUM	2000	1500 / 1500	1500 / 1600	1100	1300
BERYLLIUM	4	0.31 U / 0.31 U	0.31 U / 0.31 U	0.23 U	0.23 U
CADMIUM	5	0.062 U / 0.062 U	0.062 U / 0.062 U	0.056 U	0.11 U
CALCIUM	NA	250000 / 230000 J	240000 / 240000 J	200000	210000
CHROMIUM	100	0.31 U / 0.31 U	3.4 / 0.31 U	2.2	2.4
COBALT	1000	10 / 10	10 / 10	7.4	8.1
COPPER	650	11 J / 0.93 J	1.2 J / 0.70 J	0.91	0.92
IRON	5000	**14000 / 14000**	**14000 / 14000**	**13000**	**13000**
LEAD	7.5	0.33 U / 0.33 U	0.33 U / 0.33 U	0.29 U	0.29 U
MAGNESIUM	NA	170000 / 170000 J	170000 / 170000 J	130000	150000
MANGANESE	150	150 / 150	150 / 150	140	140
MERCURY	2	0.046 U / 0.046 U	0.046 U / 0.046 U	0.046 U	0.046 U
NICKEL	100	20 / 22	20 / 20	19	20
POTASSIUM	NA	36000 / 36000	37000 / 37000	28000	37000
SELENIUM	50	2.7 / 4.6 J	0.92 U / 8.4 J	3.9	4.6
SILVER	50	0.12 U / 0.12 U	0.12 U / 0.12 U	0.061 U	0.061 U
SODIUM	NA	440000 / 420000 J	430000 / 440000 J	330000	380000
THALLIUM	2	0.17 U / 0.17 U	0.17 U / 0.17 U	0.05 U	0.05 U
VANADIUM	49	2.7 / 2.6	2.7 / 2.5	1.8	2.1
ZINC	5000	0.84 U / 0.84 U	0.84 U / 0.84 U	4.1 U	12 U
TOTAL ESSENTIAL NUTRIENTS	1200000	896000 / 856000	877000 / 887000	688000	777000
MISCELLANEOUS PARAMETERS					
AMMONIA-N (MG/L)	30	**34**	**34**	27	**37**
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	7.1	9.5	8.8 J	16.0 J
CHEMICAL OXYGEN DEMAND (MG/L)	NA	37	37	150	160
CHLORIDE (MG/L)	200	**580**	**580**	**450**	**480**
CYANIDE (MG/L)	200	0.001900 U	0.001900 U	0.0033 U	0.0036 U
FLUORIDE (MG/L)	2	0.17	0.17	0.16	0.15
HEXAVALENT CHROMIUM (MG/L)	0.1	0.0041 U	0.0074	0.0047 J	0.0059 J
NITRATE (MG/L)	10				
NITRATE-N (MG/L)	10000	0.016 U	0.028	0.024 J	0.025 J
NITRITE/NITRATE-N (MG/L)	10000	0.016 U	0.032	0.028 U	0.025 U
NITRITE-N (MG/L)	1000	0.0034	0.0042	0.0037 J	0.0029 U
PH (S.U.)	6.5 - 8.5				
SULFATE (MG/L)	250	13	12	46	39
TOTAL DISSOLVED SOLIDS (MG/L)	500	**2300**	**2300**	**1900**	**2000**
TOTAL ORGANIC CARBON (MG/L)	NA	51	48 J	43	46
TOTAL PHENOLICS (MG/L)	0.1	0.004800 U	0.004800 U	0.0048 UJ	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.34	0.3	0.21	0.26
TOTAL SUSPENDED SOLIDS (MG/L)	NA	40	39	31	33
FIELD RESULTS					
PH (S.U.)	6.5 - 8.5	6.75		6.72	6.72

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-05 FL-05_20060817 08/17/2006 QTR01	FL-05 FL-05_20070110 01/10/2007 QTR02	FL-05 FL-05_20070425 04/25/2007 QTR03	FL-05 FL-05_20070809 08/09/2007 QTR04	FL-05 NTC02GW0505 11/13/2007 QTR05	FL-05 NTC02GW0506 02/25/2008 QTR06	FL-05 NTC02GW0507 05/07/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.518 J	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	70	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1400	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	5 U	5 UR	5 UR
TOLUENE	1000	-99 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.04 J
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	21	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.02 J	0.5 U	0.05 J
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
4-CHLOROANILINE	28	2.5 U	2.5 U	2.5 U	2.75 U	1 U	1 U	1 U
4-METHYLPHENOL	35					0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.02 J
ANTHRACENE	2100	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.02 J	0.5 U	0.5 U
BENZALDEHYDE	NA	2.5 U	2.5 U	2.5 U	2.75 U	1.9	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.039 J	0.5 U	0.5 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.029 J	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.75 U	1.6	0.43 J	0.5 U
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.5 U	2.5 U	2.75 U	1 U	0.092 J	1 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.75 U	1 U	1 U	1 U
CARBAZOLE	4	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.029 J	0.5 U	0.5 U
DIBENZOFURAN	NA	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
DIETHYL PHTHALATE	5600	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.058 U	0.5 U
DIMETHYL PHTHALATE	NA	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.75 U	0.79 J	1 U	1 U
DI-N-OCTYL PHTHALATE	140	3.22	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.039 J	0.5 U	0.5 U
FLUORENE	280	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
ISOPHORONE	1400	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.046 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.059 J	0.5 U	1.1
PENTACHLOROPHENOL	1	12.5 U	12.5 U	12.5 U	13.7 U	0.42 J	1 U	1 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.069 J	0.5 U	0.5 U
PHENOL	100	2.5 U	2.5 U	2.5 U	2.75 U	0.50 U	0.5 U	0.5 U
PYRENE	210	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.391	0.255 U	0.255 U	0.269 U	0.20 U	0.2 U	0.2 UJ
ENDOSULFAN I	42	0.0102 U	0.0102 U	0.0102 U	0.0108 U	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0102 U	0.0102 U	0.0108 U	0.05 U	0.05 U	0.05 UJ
GAMMA-CHLORDANE	2	0.0102 U	0.0102 U	0.0102 U	0.0108 U	0.05 U	0.05 U	0.05 UJ
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U	0.7 U	0.7 U	0.7 U	1 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-05 FL-05_20060817 08/17/2006 QTR01	FL-05 FL-05_20070110 01/10/2007 QTR02	FL-05 FL-05_20070425 04/25/2007 QTR03	FL-05 FL-05_20070809 08/09/2007 QTR04	FL-05 NTC02GW0505 11/13/2007 QTR05	FL-05 NTC02GW0506 02/25/2008 QTR06	FL-05 NTC02GW0507 05/07/2008 QTR07
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1 U	1 U	0.543 U	2 U	2 UJ	2 U
DINOSEB	7	0.5 U	0.5 U	0.5 U	0.272 U	1 U	1 UJ	1 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.78 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	301	71.4	**5250**	934	**20000 J / 44 U**	1100 J / 44 U	1200 / 20 U
ANTIMONY	6	0.25 U	0.25 U	0.619	1.15	0.91 J / 0.91 U	0.44 U / 0.44 U	0.32 U / 0.32 U
ARSENIC	50	7.65	5.29	33.5	5 U	10 / 4.3	4.6 / 4.9	5.2 / 4.7
BARIUM	2000	31.9	46.7	84	37	190 / 34	47 / 40	42 / 35
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	1.7 / 0.31 U	0.31 U / 0.31 U	0.23 U / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.37 / 0.07	0.062 U / 0.062 U	0.056 U / 0.056 U
CALCIUM	NA	45300	71400	74800	75400	120000 J / 57000 J	77000 / 78000 J	74000 / 68000
CHROMIUM	100	2.5 U	2.5 U	6.62	2.5 U	51 J / 0.54 U	2.3 / 0.31 U	1.7 / 0.87
COBALT	1000	2.5 U	2.5 U	2.73	2.5 U	21 / 0.64	1.7 / 0.85	1.2 / 0.71
COPPER	650	5 U	5 U	8.26	5 U	38 / 1	2.3 J / 0.88 J	2.5 / 0.74
IRON	5000	267	280	**5110**	1090	**23000 / 290 J**	1800 / 420	1500 / 330
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	**16 / 0.33 U**	0.58 / 0.33 U	1.2 / 0.29 U
MAGNESIUM	NA	37200	64200	57300	56300	71000 J / 43000 J	55000 / 59000 J	56000 / 54000
MANGANESE	150	42.7	25.9	90.3	36.1	**580 / 24**	45 / 17	33 / 11
MERCURY	2	0.131	0.10 U	0.10 U	0.10 U	0.046 U / 0.053 U	0.046 U / 0.046 U	0.046 U / 0.046 U
NICKEL	100	5 U	5 U	7.39	5 U	58 / 3.5	5.4 / 5.9	8.5 / 4.6
POTASSIUM	NA	1720	1800	3880	2150	9000 / 1600	2000 / 1600	2200 / 1600
SELENIUM	50	1.51	1.45	1.57	2.28	1 / 0.92 U	0.92 U / 0.92 U	0.58 / 0.30 U
SILVER	50	5 U	5 U	5 U	5 U	0.28 / 0.12 U	0.12 U / 0.12 U	0.061 U / 0.061 UJ
SODIUM	NA	40800	47300	46100	48500	50000 J / 45000 J	45000 / 50000 J	47000 / 45000
THALLIUM	2	0.762	0.05 U	0.05 U	0.283	0.46 / 0.17 U	0.17 U / 0.17 U	0.05 U / 0.05 U
VANADIUM	49	6.18	5 U	5 U	25 U	**56 / 0.83 U**	2.4 / 0.83 U	1.9 / 0.3
ZINC	5000	5 U	5 U	12.5	5 U	90 J / 14 J	0.84 U / 0.84 U	15 U / 7.4 U
TOTAL ESSENTIAL NUTRIENTS	1200000	125020	184700	182080	182350	250000 / 146600	179000 / 188600	179200 / 168600
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.308	0.318	0.35	0.41	0.25	0.38	0.41
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1 U	1 U	1 U	2 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	10 U	17.4	15	26.2	14 J	18	15
CHLORIDE (MG/L)	200	20.6	47.6	34.6	33.2	30	41	36
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001900 U	0.0026 U
FLUORIDE (MG/L)	2	0.691	0.613	0.514	0.622	0.65	0.48	0.51
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 U	0.0082 J
NITRATE (MG/L)	10	0.032	0.031	0.025 U	0.025 U			
NITRATE-N (MG/L)	10000					0.029 U	0.027	0.022 J
NITRITE/NITRATE-N (MG/L)	10000					0.029 U	0.031	0.022 U
NITRITE-N (MG/L)	1000					0.0029 U	0.0044	0.0029 U
PH (S.U.)	6.5 - 8.5	7.29	7.88	7.14	7.79			
SULFATE (MG/L)	250	137	204	153	184	140	170	180
TOTAL DISSOLVED SOLIDS (MG/L)	500	432	**608**	**562**	**544**	500	**590**	**580**
TOTAL ORGANIC CARBON (MG/L)	NA	5.63	8.04	4.92	2.03	5.7	5.7	6
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00575	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.089	0.06	0.1 U	0.042 J	0.027	0.026
TOTAL SUSPENDED SOLIDS (MG/L)	NA	5	2.5 U	51.5	27.5	140 J	28	33
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					7.95	7.49	7.93

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-06 FL-06_20060821 08/21/2006 QTR01	FL-06 FL-06_20070119 01/19/2007 QTR02	FL-06 FL-06_20070417 04/17/2007 QTR03	FL-06 FL-06_20070814 08/14/2007 QTR04	FL-06 NTC02GW0605 11/13/2007 QTR05	FL-06 NTC02GW0606 02/27/2008 QTR06	FL-06 NTC02GW0607 05/07/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
1,1-DICHLOROETHANE	700	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.311 J	1 U	0.38 J	1 U
CIS-1,2-DICHLOROETHENE	70	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1400	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TETRAHYDROFURAN	NA	25 U	25 U	25 U	25 U	5 U	5 UR	5 UR
TOLUENE	1000	1.79	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1,1-BIPHENYL	NA	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
2,4,5-TRICHLOROPHENOL	700	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	10	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	21	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
4-CHLORO-3-METHYLPHENOL	NA	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
4-CHLOROANILINE	28	2.5 U	2.5 U	2.5 U	2.55 U	1 U	1 U	1 U
4-METHYLPHENOL	35					0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.019 J
ANTHRACENE	2100	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
BENZALDEHYDE	NA	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.2	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
BUTYL BENZYL PHTHALATE	1400	2.5 U	2.5 U	2.5 U	2.55 U	1 U	1 U	1 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.55 U	1 U	1 U	1 U
CARBAZOLE	4	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
DIBENZOFURAN	NA	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
DIETHYL PHTHALATE	5600	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
DIMETHYL PHTHALATE	NA	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.55 U	1 U	1 U	1 U
DI-N-OCTYL PHTHALATE	140	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	4.8
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
FLUORENE	280	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
ISOPHORONE	1400	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.042 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.057 J	0.5 U	0.5 U
PENTACHLOROPHENOL	1	12.5 U	12.5 U	12.5 U	12.8 U	1 U	1 U	1 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
PHENOL	100	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U
PYRENE	210	0.0526 U	0.0526 U	0.0526 U	0.0568 U	0.50 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)								
AROCLOR-1254	0.5	0.255 U	0.255 U	0.255 U	0.284 U	0.20 U	0.2 U	0.2 UJ
ENDOSULFAN I	42	0.0102 U	0.0102 U	0.0102 U	0.0114 U	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC (LINDANE)	0.2	0.0102 U	0.0102 U	0.0102 U	0.0114 U	0.05 U	0.05 U	0.05 UJ
GAMMA-CHLORDANE	2	0.0102 U	0.0102 U	0.0102 U	0.0114 U	0.0051 J	0.05 U	0.05 UJ
CARBAMATE UREA PESTICIDES (UG/L)								
ALDICARB SULFONE	3	0.7 U	0.7 U	0.7 U	0.7 U	1 U	2.5 U	2.5 U

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-06 FL-06_20060821 08/21/2006 QTR01	FL-06 FL-06_20070119 01/19/2007 QTR02	FL-06 FL-06_20070417 04/17/2007 QTR03	FL-06 FL-06_20070814 08/14/2007 QTR04	FL-06 NTC02GW0605 11/13/2007 QTR05	FL-06 NTC02GW0606 02/27/2008 QTR06	FL-06 NTC02GW0607 05/07/2008 QTR07
HERBICIDES (UG/L)								
2,4-DB	290	1 U	1 U	1 U	0.526 U	2 U	2 UJ	2 U
DINOSEB	7	0.5 U	0.5 U	0.5 U	0.263 U	1 U	1 U	1 U
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.63 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	445	670	904	453	**10000 J / 44 U**	**7800 / 660**	**5000 / 31**
ANTIMONY	6	0.472	0.25 U	0.277	0.926 J	0.85 U / 0.44 U	0.44 U / 0.44 U	0.32 U / 0.32 U
ARSENIC	50	5 U	5 U	5 U	5 U	3.9 / 0.74 U	2.5 / 0.74 U	1.7 / 0.35
BARIUM	2000	107	88.1	77.8	84.1	130 / 80	130 / 79	99 / 76
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.36 / 0.31 U	0.38 / 0.31 U	0.23 U / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.14 / 0.062 U	0.12 / 0.062 U	0.16 / 0.056 U
CALCIUM	NA	126000	116000	123000	152000	140000 J / 120000 J	140000 / 120000	140000 / 120000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	12 / 1.7	12 / 0.31 U	6.4 / 0.97
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	6.5 / 0.67	5.8 / 0.79	2.8 / 0.29
COPPER	650	5 U	5 U	5 U	5 U	15 / 1.2	12 / 2 J	6.6 / 1.5
IRON	5000	382	654	845	559	**11000 J / 5.7 U**	**9600 / 720**	**5400 / 9.6 U**
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	6.3 / 0.33 U	5.2 / 0.33 U	2.6 / 0.29 U
MAGNESIUM	NA	64300	65000	66400	79500	79000 J / 62000 J	73000 / 66000	73000 / 67000
MANGANESE	150	**231**	115	112	**224**	**480 / 220**	**360 / 130**	**170 / 51**
MERCURY	2	0.10 U	0.10 U	0.10 U	0.10 U	0.073 U / 0.046 U	0.046 U / 0.046 U	0.046 U / 0.046 U
NICKEL	100	5 U	5 U	5 U	6.13 J	22 / 4.6	24 / 5.2	14 / 4.7
POTASSIUM	NA	3500	3080	2850	2850	6700 / 2500	5200 / 2400	4500 / 2400
SELENIUM	50	1.29	0.859	0.83	1.59	1.1 / 0.92 U	0.92 U / 0.92 U	0.30 U / 0.30 U
SILVER	50	5 U	5 U	5 U	5 U	0.12 U / 0.12 U	0.12 U / 0.12 U	0.061 U / 0.061 UJ
SODIUM	NA	90700	77200	66500	66800	62000 J / 64000 J	58000 / 59000	52000 / 51000
THALLIUM	2	0.814	0.095	0.082	0.151 J	0.29 / 0.19	0.27 / 0.17 U	0.21 / 0.092
VANADIUM	49	12	5 U	5 U	100 U	15 / 2	15 / 1.4	8.2 / 0.51
ZINC	5000	5 U	9.79	5 U	5 U	38 / 10 J	0.84 U / 0.84 U	17 U / 6.1 U
TOTAL ESSENTIAL NUTRIENTS	1200000	284500	261280	258750	301150	287700 / 248500	276200 / 247400	269500 / 240400
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.194	0.125	0.05 U	0.142	0.19	0.088	0.14
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1.3	1.02	1 U	2.4	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	10 U	10 U	10 U	14.2 J	12 J	8.3	7
CHLORIDE (MG/L)	200	26.6	28.2	27.6	29	25	27	29
CYANIDE (MG/L)	200	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001900 U	0.0028 U
FLUORIDE (MG/L)	2	0.46	0.43	0.459	0.493	0.44	0.44	0.35
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 U	0.0041 UJ
NITRATE (MG/L)	10	0.049	0.223	0.12	0.064			
NITRATE-N (MG/L)	10000					0.029 U	0.16	0.048 J
NITRITE/NITRATE-N (MG/L)	10000					0.034	0.16	0.053 U
NITRITE-N (MG/L)	1000					0.018	0.0039	0.005 J
PH (S.U.)	6.5 - 8.5	7.27	7.16	7.2	7.31			
SULFATE (MG/L)	250	**313**	**326**	**284**	**279**	250	250	**260**
TOTAL DISSOLVED SOLIDS (MG/L)	500	**904**	**872**	**862**	**902**	**780**	**800**	**850**
TOTAL ORGANIC CARBON (MG/L)	NA	10.5	4.52	2.87	2.24 J	4	2	2.6
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.05 U	0.05 U	0.172 J	0.20 J	0.091	0.052
TOTAL SUSPENDED SOLIDS (MG/L)	NA	2.5 U	13	40.5	9	140 J	160	43
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					7.19	6.95	7.12

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria(1)	FL-01 FL-01_20060816 08/16/2006 QTR01	FL-01 FL-01_20070111 01/11/2007 QTR02	FL-01 FL-01_20070419 04/19/2007 QTR03	FL-01 FL-01_20070808 08/08/2007 QTR04	FL-01 NTC02GW0105 11/13/2007 QTR05	FL-01 NTC02GW0106 02/27/2008 QTR06	FL-01 NTC02GW0107 05/07/2008 QTR07

(1) Groundwater criteria is either Illinois EPA Tiered Approach to Corrective Action Objectives (TACO) Groundwater Remediation Objectives (GROs) or USEPA primary or secondary maximum contaminant levels (MCLs).
(2) Bold/dark shaded cells indicate exceedance of TACO GRO or USEPA MCL.
(3) Gray shaded cells indicate positive detection
U = The value is not detected at the reported concentration and is considered not present in the sample.
J =The value is considered a quantitative estimate because it was less than the reporting limit or another technical noncompliance.
R = The value was rejected based on data validation.
NA = Not analyzed or not applicable.

TABLE 3-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
VOLATILE ORGANIC COMPOUNDS (UG/L)							
1,1-DICHLOROETHANE	1/49	0	0	0.152 J - 0.152 J	FL-03_20070813-D	0.2	700
ACETONE	2/49	0	0	3.77 - 4.82	FL-04_20070430	4	6300
BENZENE	16/49	0	0	0.138 - 1.23	FL-04_20070816	0.7	5
CHLOROMETHANE	8/49	0	0	0.311 J - 1.88	FL-01_20070808	0.9	160
CIS-1,2-DICHLOROETHENE	15/49	0	0	0.31 J - 0.77 J	FL-03_20070813-D	0.5	70
DICHLORODIFLUOROMETHANE	7/49	0	0	0.26 J - 0.493	FL-04_20060822	0.4	1400
METHYLENE CHLORIDE	1/49	0	0	1.09 - 1.09	FL-01_20060816	1	5
TETRAHYDROFURAN	7/40	0	0	4 J - 19 J	NTC02GW0406	13	NA
TOLUENE	6/49	0	0	0.34 - 1.79	FL-06_20060821	0.7	1000
SEMIVOLATILE ORGANIC COMPOUNDS (UG/L)							
1,1-BIPHENYL	3/49	0	0	0.087 J - 0.14 J	NTC02GW0405	0.1	NA
1-METHYLNAPHTHALENE	2/49	0	0	0.04 J - 0.25 J	NTC02GW0107	0.1	NA
2,4,5-TRICHLOROPHENOL	1/49	0	0	0.14 J - 0.14 J	NTC02GW0106	0.1	700
2,4,6-TRICHLOROPHENOL	1/49	0	0	0.047 J - 0.047 J	NTC02GW0106	0.05	10
2,4-DICHLOROPHENOL	1/49	0	0	0.026 J - 0.026 J	NTC02GW0106	0.03	21
2-METHYLNAPHTHALENE	3/49	0	0	0.02 J - 0.32 J	NTC02GW0107	0.1	NA
4-CHLORO-3-METHYLPHENOL	1/49	0	0	0.22 J - 0.22 J	NTC02GW0406-D	0.2	NA
4-CHLOROANILINE	1/49	0	0	0.45 J - 0.45 J	NTC02GW0407	0.5	28
4-METHYLPHENOL	1/21	0	0	0.23 J - 0.23 J	NTC02GW0407	0.2	35
ACENAPHTHENE	5/49	0	0	0.013 J - 0.088 J	NTC02GW0107	0.03	420
ANTHRACENE	4/49	0	0	0.016 J - 0.041 J	NTC02GW0406-D	0.02	2100
BENZALDEHYDE	6/49	0	0	0.58 J - 2.5	NTC02GW0405, NTC02GW0405-D	2	NA
BENZO(A)ANTHRACENE	1/49	0	0	0.039 J - 0.039 J	NTC02GW0505	0.04	0.13
BENZO(A)PYRENE	1/49	0	0	0.029 J - 0.029 J	NTC02GW0505	0.03	0.2
BIS(2-ETHYLHEXYL)PHTHALATE	14/49	2	0	0.43 J - 15.7	FL-01_20070419	3	6
BUTYL BENZYL PHTHALATE	4/49	0	0	0.048 J - 0.11 J	NTC02GW0406	0.07	1400
CAPROLACTAM	8/49	0	0	0.24 J - 5.48	FL-04_20070430	1	3500
CARBAZOLE	1/49	0	0	0.031 J - 0.031 J	NTC02GW0105	0.03	4
CHRYSENE	1/49	0	0	0.029 J - 0.029 J	NTC02GW0505	0.03	1.5
DIBENZOFURAN	3/49	0	0	0.018 J - 0.029 J	NTC02GW0207	0.02	NA
DIETHYL PHTHALATE	2/49	0	0	0.071 J - 0.075 J	NTC02GW0407	0.07	5600
DIMETHYL PHTHALATE	1/49	0	0	0.13 J - 0.13 J	NTC02GW0406-D	0.1	NA
DI-N-BUTYL PHTHALATE	5/49	0	0	0.54 J - 3.4	NTC02GW0307	1	700
DI-N-OCTYL PHTHALATE	6/49	0	0	0.59 - 7.56	FL-02_20070129	3	140
FLUORANTHENE	3/49	0	0	0.039 J - 0.046 J	NTC02GW0206	0.04	280
FLUORENE	2/49	0	0	0.032 J - 0.041 J	NTC02GW0407-D	0.04	280
ISOPHORONE	1/49	0	0	0.11 J - 0.11 J	NTC02GW0407	0.1	1400
NAPHTHALENE	10/49	0	0	0.031 J - 9.3	NTC02GW0107	1	140
PENTACHLOROPHENOL	4/49	0	0	0.29 J - 0.47 J	NTC02GW0105	0.4	1
PHENANTHRENE	7/49	0	0	0.019 J - 0.17 J	NTC02GW0207	0.07	NA
PHENOL	1/49	0	0	8.52 - 8.52	FL-01_20060816	9	100
PYRENE	1/49	0	0	0.049 J - 0.049 J	NTC02GW0207	0.05	210
PESTICIDES/PCBs (UG/L)							
AROCLOR-1254	1/48	0	0	0.391 - 0.391	FL-05_20060817	0.39	0.5
ENDOSULFAN I	1/48	0	0	0.0036 J - 0.0036 J	NTC02GW0405-D	0.0036	42
GAMMA-BHC (LINDANE)	1/48	0	0	0.0035 J - 0.0035 J	NTC02GW0406-D	0.0035	0.2
GAMMA-CHLORDANE	1/47	0	0	0.0051 J - 0.0051 J	NTC02GW0605	0.0051	2

TABLE 3-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
CARBAMATE UREA PESTICIDES (UG/L)							
ALDICARB SULFONE	1/46	0	0	0.835 J - 0.835 J	NTC02GW0405-D	0.84	3
HERBICIDES (UG/L)							
2,4-DB	2/49	0	0	0.83 J - 1.2 J	NTC02GW0407	1.0	290
DINOSEB	1/49	0	0	2.55 - 2.55	FL-04_20070130	2.6	7
PETROLEUM HYDROCARBONS (MG/L)							
OIL & GREASE - HEM	1/49	0	0	1.1 J - 1.1 J	NTC02GW0207	1.1	NA
INORGANICS (UG/L)							
ALUMINUM	24/49	10	2	71.4 - 20000 J	NTC02GW0505	3771	3500
ALUMINUM - DISSOLVED	3/13	0	0	31 - 660	NTC02GW0606	248	3500
ANTIMONY	23/49	0	0	0.277 - 2.42	FL-04_20070816	1.0	6
ANTIMONY - DISSOLVED	2/13	0	0	1.1 - 1.3	NTC02GW0406-D	1.2	6
ARSENIC	35/49	1	0	0.26 - 70.3	FL-02_20070815	10.6	50
ARSENIC - DISSOLVED	11/13	0	0	0.35 - 11	NTC02GW0307	4.6	50
BARIUM	49/49	0	0	29 - 1500	NTC02GW0406, NTC02GW0406-D	393	2000
BARIUM - DISSOLVED	13/13	0	0	34 - 1600	NTC02GW0406-D	321	2000
BERYLLIUM	6/49	0	0	0.33 - 1.7	NTC02GW0505	0.63	4
CADMIUM	8/49	0	0	0.068 - 0.37	NTC02GW0505	0.17	5
CADMIUM - DISSOLVED	1/13	0	0	0.07 - 0.07	NTC02GW0505	0.07	5
CALCIUM	49/49	0	0	25900 - 251000	FL-04_20070130	140941	NA
CALCIUM - DISSOLVED	13/13	0	0	28000 J - 240000 J	NTC02GW0406-D	114077	NA
CHROMIUM	19/49	0	0	0.61 - 51 J	NTC02GW0505	8.2	100
CHROMIUM - DISSOLVED	6/13	0	0	0.87 - 2.7	NTC02GW0307	1.6	100
COBALT	35/49	0	0	0.25 - 21	NTC02GW0505	5.5	1000
COBALT - DISSOLVED	11/13	0	0	0.17 - 10	NTC02GW0406, NTC02GW0406-D	2.9	1000
COPPER	24/49	0	0	0.63 - 38	NTC02GW0505	6.3	650
COPPER - DISSOLVED	13/13	0	0	0.6 - 2.4 J	NTC02GW0306	1.1	650
IRON	45/49	26	5	23 - 23000	NTC02GW0505	7482	5000
IRON - DISSOLVED	9/13	3	1	64 - 16000	NTC02GW0307	5126	5000
LEAD	12/49	1	0	0.58 - 16	NTC02GW0505	4.3	7.5
MAGNESIUM	49/49	0	0	16000 - 173000	FL-04_20070130	92669	NA
MAGNESIUM - DISSOLVED	13/13	0	0	19000 J - 170000 J	NTC02GW0406, NTC02GW0406-D	72231	NA
MANGANESE	49/49	11	1	15 - 580	NTC02GW0505	130	150
MANGANESE - DISSOLVED	13/13	1	0	7.5 - 220	NTC02GW0605	72	150
MERCURY	1/49	0	0	0.131 - 0.131	FL-05_20060817	0.13	2
NICKEL	37/49	0	0	4.3 - 58	NTC02GW0505	16.1	100
NICKEL - DISSOLVED	13/13	0	0	0.9 - 22	NTC02GW0406, NTC02GW0307	8.6	100
POTASSIUM	49/49	0	0	1400 - 55200	FL-04_20070816	10152	NA
POTASSIUM - DISSOLVED	13/13	0	0	1200 - 37000	NTC02GW0406-D	7154	NA
SELENIUM	35/49	0	0	0.37 - 24.7	FL-04_20070816	5.5	50
SELENIUM - DISSOLVED	5/13	0	0	0.62 - 8.4 J	NTC02GW0406-D	3.3	50
SILVER	1/49	0	0	0.28 - 0.28	NTC02GW0505	0.28	50
SODIUM	49/49	0	0	40800 - 440000	NTC02GW0406	130037	NA
SODIUM - DISSOLVED	13/13	0	0	45000 J - 440000 J	NTC02GW0406-D	116154	NA

TABLE 3-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
THALLIUM	25/49	0	0	0.054 J - 1.77	FL-03_20060831	0.41	2
THALLIUM - DISSOLVED	3/13	0	0	0.086 - 0.19	NTC02GW0605	0.12	2
VANADIUM	24/49	1	0	0.43 - 56	NTC02GW0505	9.6	49
VANADIUM - DISSOLVED	8/13	0	0	0.3 - 3.9	NTC02GW0307	1.7	49
ZINC	14/49	0	0	7.4 J - 90 J	NTC02GW0505	20.4	5000
ZINC - DISSOLVED	5/13	0	0	2.1 - 14 J	NTC02GW0505	8.0	5000
TOTAL ESSENTIAL NUTRIENTS	49/49	0	0	97200 - 896000	NTC02GW0406	373799	1200000
TOTAL ESSENTIAL NUTRIENTS - DISSOLVED	13/13	0	0	106200 - 887000	NTC02GW0406-D	309615	1200000
MISCELLANEOUS PARAMETERS							
AMMONIA-N (MG/L)	47/49	5	1	0.049 - 48	FL-04_20070816	7.7	30
BIOCHEMICAL OXYGEN DEMAND (MG/L)	22/49	0	0	1.02 - 16 J	NTC02GW0407-D	5.5	NA
CHEMICAL OXYGEN DEMAND (MG/L)	38/47	0	0	3.4 - 250	FL-04_20060822, FL-04_20060822-D	54.8	NA
CHLORIDE (MG/L)	49/49	11	2	7.53 - 697	FL-04_20070130	161	200
CYANIDE (MG/L)	2/49	0	0	0.0015 - 0.0015	NTC02GW0405, NTC02GW0405-D	0.0015	200
FLUORIDE (MG/L)	49/49	0	0	0.121 - 0.893	FL-02_20070129	0.43	2
HEXAVALENT CHROMIUM (MG/L)	6/48	0	0	0.0041 - 0.0082 J	NTC02GW0507	0.0061	0.1
NITRATE (MG/L)	16/28	0	0	0.031 - 0.611	FL-01_20060816	0.13	10
NITRATE-N (MG/L)	13/21	0	0	0.018 J - 0.28	NTC02GW0107	0.079	10000
NITRITE/NITRATE-N (MG/L)	7/21	0	0	0.026 - 0.27	NTC02GW0106	0.091	10000
NITRITE-N (MG/L)	11/21	0	0	0.0034 - 0.018	NTC02GW0605	0.0055	1000
PH (S.U.)	27/27	1	0	6.47 - 8.39	FL-02_20070129	7.2	6.5 - 8.5
SULFATE (MG/L)	49/49	12	2	3.1 - 580	NTC02GW0107	155	250
TOTAL DISSOLVED SOLIDS (MG/L)	49/49	40	6	264 - 2310	FL-04_20070130	1104	500
TOTAL ORGANIC CARBON (MG/L)	46/49	0	0	1.13 - 73.4	FL-04_20070130	18.5	NA
TOTAL PHENOLICS (MG/L)	7/49	0	0	0.0037 J - 0.00575	FL-04_20070430, FL-05_20070110	0.0047	0.1
TOTAL PHOSPHORUS (MG/L)	29/48	0	0	0.012 - 0.34	NTC02GW0406	0.12	NA
TOTAL SUSPENDED SOLIDS (MG/L)	41/49	0	0	3 - 220	NTC02GW0206	49.7	NA
FIELD RESULTS							
CONDUCTIVITY (MS/CM)	19/19	0	0	0.568 - 3.94	NTC02GW0406	1.8	NA
DISSOLVED OXYGEN (MG/L)	19/19	0	0	0.1 - 3.54	NTC02GW0507	0.57	NA
OXIDATION REDUCTION POTENTIAL (MV)	19/19	0	0	-173 - 198	NTC02GW0107	-40.6	NA
PH (S.U.)	19/19	1	0	6.5 - 8.78	NTC02GW0206	7.2	6.5 - 8.5

1 - The average concentrations were calculated by using one-half the detection limit for non-detects.
2 - Groundwater criteria is either Illinois EPA Tiered Approach to Corrective Action Objectives (TACO) Groundwater Remediation Objectives (GROs) or USEPA secondary maximum contaminant levels (MCLs).
J =The value is considered a quantitative estimate because it was less than the reporting limit or another technical noncompliance.

TABLE 3-2

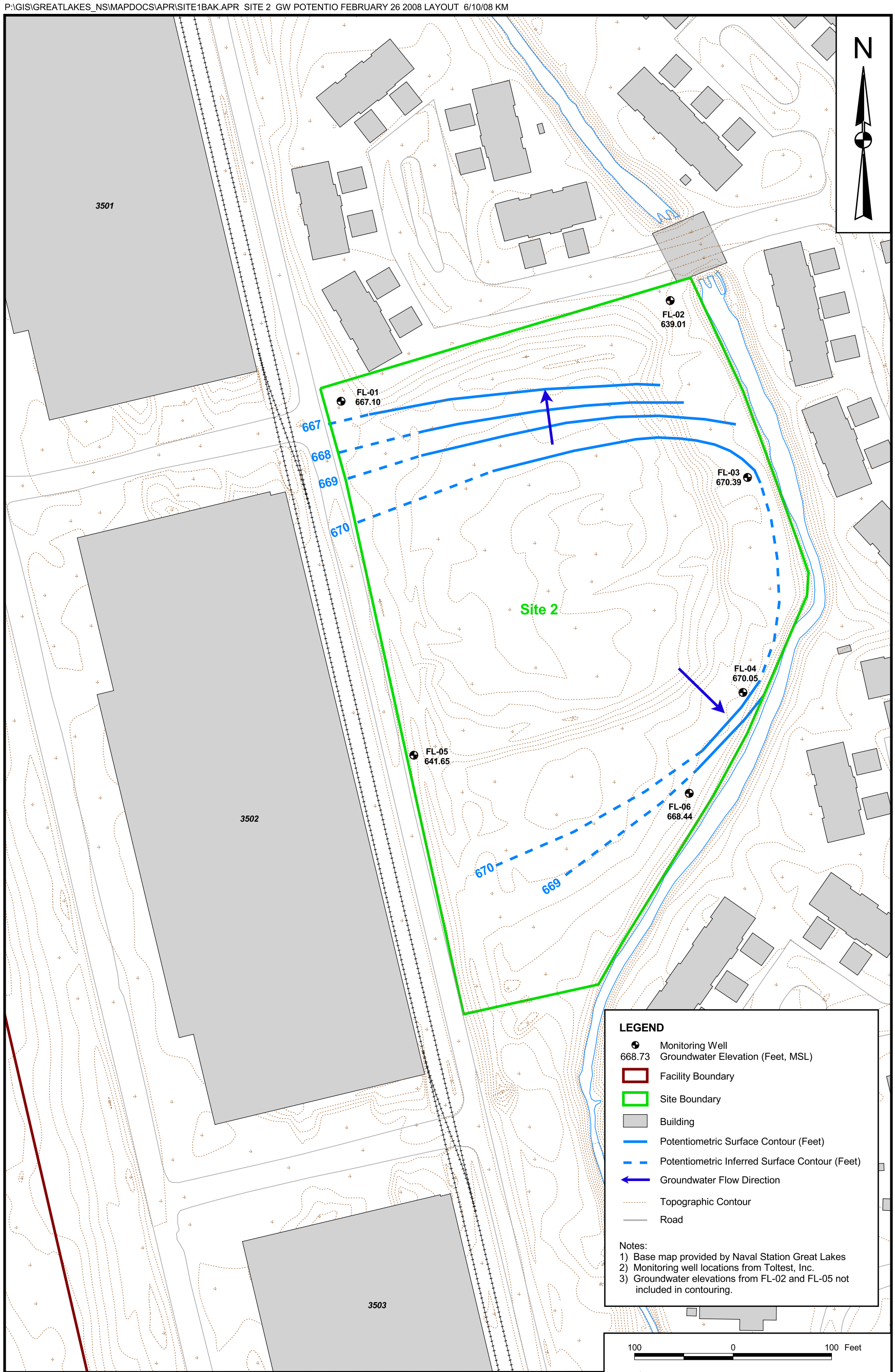
SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)

Associated Samples:

FL-01_20060816	FL-03_20070424	FL-05_20070425	NTC02GW0207
FL-01_20070111	FL-03_20070424-D	FL-05_20070809	NTC02GW0305
FL-01_20070419	FL-03_20070813	FL-06_20060821	NTC02GW0306
FL-01_20070808	FL-03_20070813-D	FL-06_20070119	NTC02GW0307
FL-02_20060830	FL-04_20060822	FL-06_20070417	NTC02GW0405
FL-02_20070129	FL-04_20060822-D	FL-06_20070814	NTC02GW0405-D
FL-02_20070418	FL-04_20070130	NTC02GW0105	NTC02GW0406
FL-02_20070815	FL-04_20070430	NTC02GW0106	NTC02GW0406-D
FL-03_20060831	FL-04_20070816	NTC02GW0107	NTC02GW0407
FL-03_20070118	FL-05_20060817	NTC02GW0205	NTC02GW0407-D
FL-03_20070118-D	FL-05_20070110	NTC02GW0206	NTC02GW0505

P:\GIS\GREATLAKES_NS\MAPDOCS\APR\SITE1BAK.APR SITE 2 GW POTENTIO FEBRUARY 26 2008 LAYOUT 6/10/08 KM



DRAWN BY S. STROZ	DATE 05/13/08	GROUNDWATER POTENTIOMETRIC SURFACE MAP MAY 2008, ROUND 7 SITE 2 FORRESTAL LANDFILL NAVAL STATION GREAT LAKES GREAT LAKES, ILLINOIS	CONTRACT NUMBER 01050
CHECKED BY M. MENGEL	DATE 05/16/08		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 3-1 REV 0

4.0 SITE 3 – SUPPLYSIDE LANDFILL RESULTS

4.1 HYDROGEOLOGY

Figure 4-1 illustrates the groundwater potentiometric surface at the Supplyside Landfill, as measured during Round 7 (May 2008). Based on Figure 4-1, groundwater flow at the site during Round 7 is generally north-northeasterly across the landfill. Groundwater flow was similar to previous rounds.

4.2 ANALYTICAL RESULTS

Groundwater samples were collected from monitoring wells SSL-01 through SSL-06 at the Supplyside Landfill (Site 2) during Round 7 (May 2008). A field duplicate groundwater sample was also collected from monitoring well SSL-04. The groundwater samples were analyzed for the L1/L2 parameters listed on Table 2-1. Samples from wells SSL-01, SSL-03, and SSL-06 were also sampled for dissolved metals, based on turbidity readings greater than 10 NTUs. A table of laboratory results from Round 7 is provided in Appendix C, and data validation letters and laboratory data sheets are included as Appendix D.

Table 4-1 summarizes analytical results from groundwater samples collected at Supplyside Landfill for Rounds 1 through 7. The table lists parameters that were detected above the laboratory detection limits in at least one sample. Parameters not detected above the laboratory detection limits are not presented in the table but are provided in the summary of analytical results in Appendix C. Table 4-1 compares the analytical results to Illinois EPA TACO GROs for Class I groundwater, or to USEPA primary or secondary MCLs or USEPA Region IX PRGs for parameters for which no TACO GROs are available. Parameters exceeding either the TACO GROs or USEPA primary or secondary MCLs are noted in Table 4-1 by dark shading.

Table 4-2 summarizes statistics for the analytical results, including frequency of detections, number of exceedances, range of detections, location of maximum concentrations, and averages of detected concentrations for Rounds 1 through 7.

Trend graphs for parameters with concentrations detected above a criterion are provided in Appendix E.

Comparison of Round 7 data to the criteria is summarized as follows:

- Concentrations of total aluminum in samples from SSL-01 (41 µg/L), SSL-02 (890 µg/L), SSL-03 (1,000 µg/L), and SSL-06 (230 µg/L) were less than the TACO GRO of 3,500 µg/L during Round 7. Aluminum was not detected in the samples from SSL-04 and SSL-05 during Round 7.

- Total arsenic was detected in the Site 3 wells at concentrations from 0.3 to 25 µg/L, which are less than the TACO GRO of 50 µg/L. The concentration of 25 µg/L was detected in SSL-06, in which the highest concentrations have previously been detected. The results are generally similar to or less than those detected during previous rounds.

- Total iron was detected in samples from SSL-05 (16,000 µg/L) and SSL-06 (29,000 µg/L) at concentrations greater than the TACO GRO of 5,000 µg/L. The iron concentration in the filtered sample from SSL-06 (6,400 µg/L) was also greater than the TACO GRO. Total iron concentrations in the samples from SSL-05 and SSL-06 have exceeded the TACO GRO in Rounds 1 through 7, with exception of concentrations from SSL-06 during Rounds 1 and 4. Similar to previous rounds, total iron was detected in the remaining samples during Round 7 but at concentrations less than the TACO GRO.

- Concentrations of total lead in samples from SSL-01 (0.4 µg/L), SSL-02 (0.57 µg/L), and SSL-06 (0.55 µg/L) were less than the TACO GRO of 7.5 µg/L during Round 7. Lead was not detected in the samples from SSL-04 and the duplicate from this location, SSL-05, and SSL-04 during Round 7. These results were similar to those detected during previous rounds. Total lead has been detected at a concentration greater than the TACO GRO in well SSL-02 (14 µg/L) during Round 5; however, Round 5 was the first round this well was sampled; the well was sampled using a bailer; and, lead was not detected in the filtered sample from SSL-05.

- Concentrations of total manganese in the samples from SSL-05 (460 µg/L) and SSL-06 (780 µg/L) were greater than the TACO GRO of 150 µg/L. The manganese concentrations in the dissolved samples from SSL-06 (760 µg/L) was also greater than the TACO GRO. No filtered sample was collected for SSL-05. Total manganese concentrations in the samples from SSL-05 and SSL-06 have exceeded the TACO GRO in Rounds 1 through 7 and appear to be increasing. Total manganese was detected in the remaining samples during Round 7 but at concentrations less than the TACO GRO.

- Chloride was detected in the sample from SSL-02 (590 mg/L) at a concentration greater than the USEPA secondary MCL of 200 mg/L. Chloride was detected in the remaining samples during Round 7 but at concentrations less than the USEPA secondary MCL. The chloride results were similar to those detected during previous rounds.

- Sulfate was detected in the samples from SSL-01 (340 mg/L) and SSL-03 (280 mg/L) at concentrations greater than the USEPA secondary MCL of 250 mg/L. Sulfate was detected in the

remaining samples during Round 7 but at concentrations less than the USEPA secondary MCL. The results were similar to those detected during previous rounds.

- TDS was detected in the samples from SSL-01, SSL-02, SSL-03, SSL-04 (and the field duplicate from this location), SSL-05, and SSL-06 at concentrations from 550 to 1,300 mg/L, greater than the USEPA secondary MCL of 500 mg/L. The TDS results were similar to results detected during previous rounds.

- No VOCs were detected in the Site 3 wells during Round 7. Of the SVOCs, several polynuclear aromatic hydrocarbons were detected in the samples from SSL-01, SSL-02, SSL-03, SSL-04, SSL-05, and SSL-06 but at concentrations less than the regulatory criteria. Similarly, bis(2-ethylhexyl)phthalate was the detected in the samples from SSL-02 and SSL-03 but at concentrations less than the TACO GRO. No pesticides, herbicides, PCBs, or oil and grease were detected in samples from the Supplyside Landfill during Round 7.

4.3 CONCLUSIONS AND RECOMMENDATIONS

As discussed in Section 1.2, this report for Round 7 groundwater monitoring at the Supplyside Landfill provides an evaluation of the current analytical results and data trends (Appendix E) that may be evident by comparison to data from the previous sampling rounds. The following conclusions are based on seven rounds of groundwater monitoring data at Site 3:

- Exceedances of regulatory monitoring criteria have included mainly inorganics.

- Analytical results from the seven rounds of groundwater monitoring indicate that no VOC, SVOCs, pesticides, PCBs, and herbicides were detected at concentrations greater than the monitoring criteria.

- Inorganics detected at concentrations greater than regulatory criteria have included aluminum, iron, manganese, arsenic, and lead. As illustrated on the trend graphs provided in Appendix E, aluminum has been detected at concentrations greater than the regulatory criterion in two wells (SSL-02 and SSL-06) during at least one round. However, during this monitoring event, aluminum concentrations from the wells were less than the regulatory criterion. Iron and manganese concentrations have been relatively consistent over the first seven quarters. Notably, iron and manganese concentrations in SSL05 and SSL-06 have exceeded the TACO GROs during Rounds 1 through 7, with the exception of iron concentrations in SSL-06 during Rounds1 and 4 which were less than the TACO GRO; the iron and manganese concentrations appear to be increasing with time. Arsenic and lead have been detected at concentrations greater than the regulatory criteria in one well (arsenic in SSL-06 and lead in SSL-02) during one round (Round 5).

- Total and dissolved concentrations of sodium were greater than the USEPA DWEL of 20,000 µg/L during Rounds 1 through 7. The consistency and ubiquitousness of the sodium concentrations suggests that natural levels of sodium may be elevated in the area and that the concentrations are not site-related.

For the initial eight quarters of the long-term monitoring, groundwater samples will be collected quarterly and analyzed for the L1 and L2 parameters listed in Table 2-2. Following the eighth quarter, the monitoring data will be evaluated, and a request may be submitted to the Illinois EPA for consideration for reduction in the frequency of monitoring and in the parameters monitored. Additionally, based on the current data, collection of filtered samples from the six wells for dissolved metals analysis (in addition to total metals) should be considered to evaluate the potential impact of suspended solids on inorganics concentrations for monitoring events following the eight round.

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-01 SL-01_20060801 08/01/2006 QTR01	SL-01 SL-01_20070115 01/15/2007 QTR02	SL-01 SL-01_20070426 04/26/2007 QTR03	SL-01 SL-01_20070731 07/31/2007 QTR04	SL-01 NTC03GW0105 11/15/2007 QTR05	SL-01 NTC03GW0106 02/27/2008 QTR06	SL-01 NTC03GW0107 05/06/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
2-BUTANONE	4200	2.5 U	4.38	4.38	2.5 U	5 UJ	5 U	5 U
ACETONE	6300	2.5 U	2.5 U	23.3	2.66 J	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROFORM	0.2	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TOLUENE	1000	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.05 J
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.58 U	0.54 U	0.5 U	0.5 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.58 U	1.1 U	1 U	1 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.58 U	1.1 U	1 U	3.3 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.02 J
NAPHTHALENE	140	0.0526 U	0.0583	0.0526 U	0.0532 U	0.065 J	0.5 U	0.03 J
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0532 U	0.54 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)								
4,4'-DDD	14	0.0102 U	0.0102 U	0.0102 U	0.0105 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	10	0.0102 U	0.0102 U	0.0102 U	0.0105 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	6	0.0102 U	0.0102 U	0.0102 U	0.0105 U	0.05 U	0.05 U	0.05 U
ENDRIN KETONE	2	0.0102 U	0.0102 U	0.0102 U	0.0105 U	0.05 U	0.05 U	0.05 U
HERBICIDES (UG/L)								
2,4,5-T	280	0.1 U	0.1 U	0.1 U	0.05 U	0.20 U	0.2 UJ	0.2 U
PENTACHLOROPHENOL	1	0.1 U	0.1 U	0.1 U	0.1 U			
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.63 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	150	84.7	84.7	50 U	0.44 U	84	41 / 26
ANTIMONY	6	0.414	0.38	0.25 U	0.416 J	1 U	0.44 U	0.32 U / 0.41
ARSENIC	50	5 U	5 U	5 U	5 U	1.1	0.74 U	0.93 / 0.64
BARIUM	2000	60	55.4	49.3	69.7	77	50	53 / 47
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U	0.31 U	0.23 U / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.062 U	0.062 U	0.056 U / 0.056 U
CALCIUM	NA	41900	137000	151000	49300	57000 J	170000	170000 / 170000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	0.31 U	0.31 U	0.76 / 0.33 U
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	0.22	1.2	1.1 / 1.1
COPPER	650	5 U	5 U	5 U	5 U	0.71	0.67 J	1.6 / 0.83
IRON	5000	470	592	949	529	620 J	1300	2300 / 740
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U	0.33 U	0.4 / 0.29 U
MAGNESIUM	NA	39900	79000	76100	46300	50000 J	87000	83000 / 83000
MANGANESE	150	16.3	**386**	95.7	22.8	21	**180**	**170 / 150**
NICKEL	100	5 U	5 U	5 U	5 U	0.77	1.8	3 / 2.9
POTASSIUM	NA	1840	1720	1380	1880	2000	1300 J	1400 / 1400

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-01** **SL-01_20060801** **08/01/2006** **QTR01**	**SL-01** **SL-01_20070115** **01/15/2007** **QTR02**	**SL-01** **SL-01_20070426** **04/26/2007** **QTR03**	**SL-01** **SL-01_20070731** **07/31/2007** **QTR04**	**SL-01** **NTC03GW0105** **11/15/2007** **QTR05**	**SL-01** **NTC03GW0106** **02/27/2008** **QTR06**	**SL-01** **NTC03GW0107** **05/06/2008** **QTR07**
SELENIUM	50	0.50 U	0.50 U	0.571	0.50 U	0.92 U	0.92 U	0.30 U / 0.30 U
SODIUM	NA	39100	35800	31500	42100	44000 J	35000	33000 / 33000
THALLIUM	2	0.05 U	0.05 U	0.05 U	1.19	0.17 U	0.17 U	0.05 U / 0.05 U
VANADIUM	49	5 U	5 U	5 U	25 U	0.83 U	0.83 U	0.54 / 0.35
ZINC	5000	5 U	5 U	5 U	5 U	7.6	0.84 U	5.4 U / 11 U
TOTAL ESSENTIAL NUTRIENTS	1200000	122740	253520	259980	139580	153000	293300	287400 / 287400
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.437	0.229	0.24	0.4	0.28	0.19	0.17
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	7.4	7.6	7.65	6.71	6.1	7.8	8.4
CHEMICAL OXYGEN DEMAND (MG/L)	NA	10 U	19.6	14.5	10 U	4.7 R	13	11
CHLORIDE (MG/L)	200	3	10.3	10.7	1.82 J	4.7	21	18
FECAL COLIFORM (COL/1)	NA	2 U	2 U	2 U	2 U	2 U	2 U	2.0 U
FLUORIDE (MG/L)	2	0.738	0.587	0.423	0.748	0.75	0.44	0.4
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0041 U	0.0051	0.0041 UJ
NITRATE (MG/L)	10	0.025 U	0.059	0.025 U	0.025 U			
NITRATE-N (MG/L)	10000					0.029 U	0.016 U	0.034 J
NITRITE/NITRATE-N (MG/L)	10000					0.029 U	0.016 U	0.034 U
NITRITE-N (MG/L)	1000					0.003	0.0075	0.0029 U
PH (S.U.)	6.5 - 8.5	7.26	6.75	7.37	7.21			
SULFATE (MG/L)	250	24.1	**278**	**254**	60.8	89	**370**	**340**
TOTAL DISSOLVED SOLIDS (MG/L)	500	**874**	**788**	**802**	402	450	**1000**	**950**
TOTAL ORGANIC CARBON (MG/L)	NA	2.33	11.5	5.41	2.42	2.8	3.5 J	4.3
TOTAL PHENOLICS (MG/L)	0.1	0.00842	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.077	0.05 U	0.1 U	0.01 UR	0.018	0.035
TOTAL SUSPENDED SOLIDS (MG/L)	NA	5	7.5	7.5	2.5 U	6.7	7.4	6.5
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					6.95	7.07	6.98

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-02 NTC03GW0205 11/16/2007 QTR05	SL-02 NTC03GW0206 02/28/2008 QTR06	SL-02 NTC03GW0207 05/06/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)				
2-BUTANONE	4200	5 UJ	5 U	5 U
ACETONE	6300	5 U	5 U	5 UJ
BENZENE	5	1 U	1 U	1 U
CHLOROFORM	0.2	1 U	1 U	1 U
CHLOROMETHANE	160	1 U	1 U	1 U
TOLUENE	1000	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)				
1-METHYLNAPHTHALENE	NA	5 U	0.54 U	0.5 U
2-METHYLNAPHTHALENE	NA	5 U	0.54 U	0.5 U
ACENAPHTHENE	420	5 U	0.54 U	0.021 J
BENZO(A)ANTHRACENE	0.13	5 U	0.54 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	5 U	0.54 U	2.1
CAPROLACTAM	3500	31	1.2 J	1 U
CHRYSENE	1.5	5 U	0.54 U	0.5 U
DI-N-BUTYL PHTHALATE	700	10 U	1.1 U	2.4 U
FLUORANTHENE	280	5 U	0.54 U	0.5 U
NAPHTHALENE	140	5 U	0.54 U	0.5 U
PHENANTHRENE	NA	10 U	0.54 U	0.5 U
PESTICIDES/PCBs (UG/L)				
4,4'-DDD	14	0.0035 J	0.05 U	0.05 U
4,4'-DDE	10	0.0059 J	0.05 U	0.05 U
4,4'-DDT	6	0.0027 J	0.05 U	0.05 U
ENDRIN KETONE	2	0.05 U	0.05 U	0.05 U
HERBICIDES (UG/L)				
2,4,5-T	280	0.20 U	0.2 UJ	0.2 U
PENTACHLOROPHENOL	1			
PETROLEUM HYDROCARBONS (MG/L)				
OIL & GREASE - HEM	NA	1.3 J	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)				
ALUMINUM	3500	**12000 J / 44 U**	1500 / 2200	890
ANTIMONY	6	0.76 U / 0.86 U	0.44 U / 0.44 U	0.42 U
ARSENIC	50	12 / 5.4	4.5 / 4.7	3.9
BARIUM	2000	120 / 54	62 / 64	62
BERYLLIUM	4	0.80 / 0.31 U	0.31 U / 0.31 U	0.23 U
CADMIUM	5	0.062 U / 0.062 U	0.062 U / 0.062 U	0.11 U
CALCIUM	NA	82000 J / 62000 J	60000 / 58000	58000
CHROMIUM	100	15 / 2.5	0.31 U / 0.31 U	2.2
COBALT	1000	5.9 / 0.42	0.75 / 0.93	0.56
COPPER	650	18 / 0.68	1.9 J / 2.3 J	1.5
IRON	5000	**11000 J / 5.7 U**	1600 / 2100	1000
LEAD	7.5	**14 / 0.33 U**	1.4 / 1.9	0.57
MAGNESIUM	NA	100000 J / 87000 J	93000 / 90000	93000
MANGANESE	150	**170 / 29**	41 / 49	43
NICKEL	100	19 / 2.8	2.5 / 4.4 J	2.7
POTASSIUM	NA	5700 / 3400	3900 / 3900	3500

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-02** **NTC03GW0205** **11/16/2007** **QTR05**	**SL-02** **NTC03GW0206** **02/28/2008** **QTR06**	**SL-02** **NTC03GW0207** **05/06/2008** **QTR07**
SELENIUM	50	0.92 U / 1	1.2 / 0.92 U	0.30 U
SODIUM	NA	280000 J / 260000 J	280000 / 270000	300000
THALLIUM	2	0.28 / 0.35	0.17 U / 0.17 U	0.05 U
VANADIUM	49	20 / 0.83 U	2 / 2.7	1.7
ZINC	5000	48 / 5.6	0.84 U / 0.84 U	8.3 U
TOTAL ESSENTIAL NUTRIENTS	1200000	467700 / 412400	436900 / 421900	454500
MISCELLANEOUS PARAMETERS				
AMMONIA-N (MG/L)	30	0.30	0.36	0.35
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	20 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	7 U	7	6.1
CHLORIDE (MG/L)	200	**580**	**580**	**590**
FECAL COLIFORM (COL/1)	NA	887	2 U	2.0 U
FLUORIDE (MG/L)	2	0.54	0.49	0.44
HEXAVALENT CHROMIUM (MG/L)	0.1	0.0041 U	0.0041 U	0.0041 UJ
NITRATE (MG/L)	10			
NITRATE-N (MG/L)	10000	0.17	0.049	0.039 J
NITRITE/NITRATE-N (MG/L)	10000	0.17	0.053	0.039 U
NITRITE-N (MG/L)	1000	0.0048	0.0038	0.0029 U
PH (S.U.)	6.5 - 8.5			
SULFATE (MG/L)	250	64	100	120
TOTAL DISSOLVED SOLIDS (MG/L)	500	**1200**	**1300**	**1300**
TOTAL ORGANIC CARBON (MG/L)	NA	6.9	1.6	2.1
TOTAL PHENOLICS (MG/L)	0.1	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	2.3 J	0.11 J	0.02
TOTAL SUSPENDED SOLIDS (MG/L)	NA	750	310	52
FIELD RESULTS				
PH (S.U.)	6.5 - 8.5	8.22	**8.55**	**8.57**

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-03 SL-03_20060802 08/02/2006 QTR01	SL-03 SL-03_20070124 01/24/2007 QTR02	SL-03 SL-03_20070501 05/01/2007 QTR03	SL-03 SL-03_20070801 08/01/2007 QTR04	SL-03 NTC03GW0305 11/15/2007 QTR05	SL-03 NTC03GW0306 03/04/2008 QTR06	SL-03 NTC03GW0307 05/06/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)								
2-BUTANONE	4200	2.5 U	2.5 U	2.5 U	2.5 U	5 UJ	5 U	5 U
ACETONE	6300	2.5 U	2.5 U	2.67	2.5 U	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROFORM	0.2	0.125 U	0.199	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
TOLUENE	1000	0.292	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)								
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.019 J
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.58 U	0.50 U	0.5 U	2.5
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.58 U	1 U	1 UR	1 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.58 U	1 U	1 U	3.2 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.049 J	0.5 U	0.5 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.051 U	0.50 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)								
4,4'-DDD	14	0.0102 U	0.0102 U	0.0102 U	0.0103 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	10	0.0102 U	0.0102 U	0.0102 U	0.0103 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	6	0.0102 U	0.0102 U	0.0102 U	0.0103 U	0.05 U	0.05 U	0.05 U
ENDRIN KETONE	2	0.0102 U	0.0102 U	0.0102 U	0.0103 U	0.05 U	0.05 U	0.05 U
HERBICIDES (UG/L)								
2,4,5-T	280	0.1 U	0.1 U	0.1 U	0.0524 U	0.20 U	0.2 UJ	0.2 U
PENTACHLOROPHENOL	1	0.1 U	0.251	0.1 U	0.105 U			
PETROLEUM HYDROCARBONS (MG/L)								
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.63 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)								
ALUMINUM	3500	1920	873	379	918	2100 / 44 U	2000 / 82	1000 / 46
ANTIMONY	6	0.286	3.91	0.25 U	0.25 U	0.44 U / 0.44 U	0.44 U / 0.44 U	0.32 U / 0.55
ARSENIC	50	5.75	6.59	5 U	5 U	3.8 / 2.8	3.2 / 1.8	2.2 / 1.6
BARIUM	2000	50.6	26.3	23.4	25.3	31 / 19	28 / 18	22 / 18
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U / 0.31 U	0.31 U / 0.31 U	0.23 U / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.44 / 0.062 U	0.09 / 0.062 U	0.056 U / 0.056 U
CALCIUM	NA	77500	73600	78400	74400	81000 J / 76000 J	91000 / 82000	85000 / 80000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	3.1 U / 1.4	0.31 U / 0.31 U	1.9 / 0.99
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	1.5 / 0.14	1.6 / 0.15	0.64 / 0.21
COPPER	650	5 U	5 U	5 U	5 U	3.8 / 0.68	2.9 J / 0.48 J	4 / 0.76
IRON	5000	1700	2290	1930	2010	3000 J / 620	3600 / 890	1900 / 710
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	1.5 / 0.33 U	1.3 / 0.33 U	0.55 / 0.29 U
MAGNESIUM	NA	72500	67700	71200	76600	82000 J / 77000 J	83000 / 77000	79000 / 75000
MANGANESE	150	59.7	69.9	62.6	55.7	69 / 20	88 / 28	47 / 27
NICKEL	100	5 U	5 U	5 U	5 U	5.5 / 1.9	6.5 / 0.71	3.4 / 2.2
POTASSIUM	NA	3910	2620	2390	2940	3400 / 2400	3400 / 2600	2800 / 2500

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-03 SL-03_20060802 08/02/2006 QTR01	SL-03 SL-03_20070124 01/24/2007 QTR02	SL-03 SL-03_20070501 05/01/2007 QTR03	SL-03 SL-03_20070801 08/01/2007 QTR04	SL-03 NTC03GW0305 11/15/2007 QTR05	SL-03 NTC03GW0306 03/04/2008 QTR06	SL-03 NTC03GW0307 05/06/2008 QTR07
SELENIUM	50	0.661	0.535	0.703	0.675 J	0.92 U / 0.92 U	0.92 U / 0.92 U	0.30 U / 0.30 U
SODIUM	NA	43400	43200	44600	49800	57000 J / 56000 J	54000 / 52000	53000 / 51000
THALLIUM	2	0.05 U	0.05 U	0.099	0.808	0.17 U / 0.17 U	0.17 U / 0.17 U	0.055 / 0.05 U
VANADIUM	49	13.1	5 U	5 U	50 U	4.3 / 1.6	4.2 / 0.83 U	2 / 0.35
ZINC	5000	6.34	5 U	5 U	12.3 J	17 / 15	0.84 U / 8.7 J	8.5 U / 5.1 U
TOTAL ESSENTIAL NUTRIENTS	1200000	197310	187120	196590	203740	223400 / 211400	231400 / 213600	219800 / 208500
MISCELLANEOUS PARAMETERS								
AMMONIA-N (MG/L)	30	0.544	0.341	0.538	0.48	0.38	0.6	0.56
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	4	4.1	7.3	5.88	8	8.8	8.3
CHEMICAL OXYGEN DEMAND (MG/L)	NA	10 U	10 U	10 U	10 U	4.6 R	12	4.1
CHLORIDE (MG/L)	200	38	34.5	30	26.6	10	28	28
FECAL COLIFORM (COL/1)	NA	2 U	2 U	2 U	2 U	2 U	2 U	2.0 U
FLUORIDE (MG/L)	2	0.625	0.745	0.663	0.701	0.79	0.69	0.67
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.00511 J	0.0041 U	0.0041 U	0.0041 UJ
NITRATE (MG/L)	10	0.025 U	0.025 U	0.025 U	0.025 U			
NITRATE-N (MG/L)	10000					0.029 U	0.016 U	0.054 J
NITRITE/NITRATE-N (MG/L)	10000					0.029 U	0.016 U	0.054 U
NITRITE-N (MG/L)	1000					0.0029 U	0.0053	0.0029 U
PH (S.U.)	6.5 - 8.5	7.4	6.92	7.19	7.72			
SULFATE (MG/L)	250	220	211	227	**251**	**320**	**280**	**280**
TOTAL DISSOLVED SOLIDS (MG/L)	500	**838**	**648**	**708**	**756**	**730**	**770**	**730**
TOTAL ORGANIC CARBON (MG/L)	NA	2.14	1.85	1.93	0.777 J	2.5	1.3	1.9
TOTAL PHENOLICS (MG/L)	0.1	0.00588	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.05 U	0.091	0.1 U	0.024 J	0.052	0.024
TOTAL SUSPENDED SOLIDS (MG/L)	NA	22.5	36.5	28	31.5	78	63	38
FIELD RESULTS								
PH (S.U.)	6.5 - 8.5					7.59	7.46	7.54

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-04 SL-04_20060814 08/14/2006 QTR01	SL-04 SL-04_20070125 01/25/2007 QTR02	SL-04 SL-04_20070125-D 01/25/2007 QTR02 SL-04_20070125	SL-04 SL-04_20070503 05/03/2007 QTR03	SL-04 SL-04_20070503-D 05/03/2007 QTR03 SL-04_20070503	SL-04 SL-04_20070821 08/21/2007 QTR04	SL-04 SL-04_20070821-D 08/21/2007 QTR04 SL-04_20070821	SL-04 NTC03GW0405 11/15/2007 QTR05
VOLATILE ORGANIC COMPOUNDS (UG/L)									
2-BUTANONE	4200	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 UJ
ACETONE	6300	2.5 U	2.5 U	2.5 U	4.82	2.5 U	2.5 U	2.5 U	5 U
BENZENE	5	0.125 U	0.125 U	0.125 U	0.822	0.125 U	0.125 U	0.125 U	1 U
CHLOROFORM	0.2	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.58	0.634 J	1 U
TOLUENE	1000	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)									
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.50 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.50 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.50 U
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.50 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.66 U	2.5 U	2.63 U	2.72 U	2.84 U	0.50 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.66 U	2.5 U	2.63 U	2.72 U	2.84 U	1 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.029 J
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.66 U	2.5 U	2.63 U	2.72 U	2.84 U	1 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.019 J
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.058 J
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0535 U	0.051 U	0.0532 U	0.50 U
PESTICIDES/PCBs (UG/L)									
4,4'-DDD	14	0.0102 U	0.0102 U	0.0106 U	0.0102 U	0.0108 U	0.0105 U	0.011 U	0.05 U
4,4'-DDE	10	0.0102 U	0.0102 U	0.0106 U	0.0102 U	0.0108 U	0.0105 U	0.011 U	0.05 U
4,4'-DDT	6	0.0102 U	0.0102 U	0.0106 U	0.0102 U	0.0108 U	0.0105 U	0.011 U	0.05 U
ENDRIN KETONE	2	0.0102 U	0.0102 U	0.0106 U	0.0102 U	0.0108 U	0.0105 U	0.011 U	0.05 U
HERBICIDES (UG/L)									
2,4,5-T	280	0.1 U	0.1 U	0.0521 U	0.1 U	0.0543 U	0.0549 U	0.0538 U	0.20 U
PENTACHLOROPHENOL	1	0.1 U	0.361	0.306 B	0.1 U	0.109 U	0.11 U	0.108 U	
PETROLEUM HYDROCARBONS (MG/L)									
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.63 U	2.55 U	2.69 U	2.63 U	2.69 U	5 U
INORGANICS - TOTAL / DISSOLVED (UG/L)									
ALUMINUM	3500	623	287	267	138	138	50 U	50 U	44 U
ANTIMONY	6	0.685	2.15	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.59 U
ARSENIC	50	7.25	5 U	5 U	5 U	5 U	5 U	5 U	0.74 U
BARIUM	2000	86.1	78.3	75.8	80.2	82.2	79.9	81.8	81
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.077
CALCIUM	NA	71900	76400	74400	86400	87600	88400	88700	89000 J
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.31 U
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.4
COPPER	650	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3.2
IRON	5000	985	583	556	321	323	93.1 J	92.1 J	130 J
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.33 U
MAGNESIUM	NA	50100	54900	55200	57500	58300	58200	58000	54000 J
MANGANESE	150	77.2	56.9	55.5	51.8	53.3	48	48.8	47
NICKEL	100	5 U	5 U	5 U	5.33	5.71 J	5 U	5 U	8.8
POTASSIUM	NA	2260	2240	2190	2100	2180	2280	2330	2400

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-04** **SL-04_20060814** **08/14/2006** **QTR01**	**SL-04** **SL-04_20070125** **01/25/2007** **QTR02**	**SL-04** **SL-04_20070125-D** **01/25/2007** **QTR02** **SL-04_20070125**	**SL-04** **SL-04_20070503** **05/03/2007** **QTR03**	**SL-04** **SL-04_20070503-D** **05/03/2007** **QTR03** **SL-04_20070503**	**SL-04** **SL-04_20070821** **08/21/2007** **QTR04**	**SL-04** **SL-04_20070821-D** **08/21/2007** **QTR04** **SL-04_20070821**	**SL-04** **NTC03GW0405** **11/15/2007** **QTR05**
SELENIUM	50	0.50 U	0.50 U	0.598 J	1.14	1	2.59	2.1	0.92 U
SODIUM	NA	31400	36500	35800	39600	41000	45100	44600	48000 J
THALLIUM	2	0.102	0.05 U	0.05 U	0.128	0.115 J	0.173 J	0.083 J	0.17 U
VANADIUM	49	13.6	5 U	5 U	5 U	5 U	100 U	100 U	0.83 U
ZINC	5000	6.01	5 U	5 U	5.47	5.45 J	5 U	5 U	4.8 U
TOTAL ESSENTIAL NUTRIENTS	1200000	155660	170040	167590	185600	189080	193980	193630	193400
MISCELLANEOUS PARAMETERS									
AMMONIA-N (MG/L)	30	0.326	0.333	0.273	0.277	0.271	0.289	0.273	0.17
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	10 U	10 U	10 U	10 U	10 U	11.9 J	11.9 J	5.8 R
CHLORIDE (MG/L)	200	12.5	14.9	34.8	22.4	21.8	25.8	25.5	26
FECAL COLIFORM (COL/1)	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
FLUORIDE (MG/L)	2	0.628	0.637	0.671	0.583	0.544	0.633	0.625	0.65
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0076
NITRATE (MG/L)	10	0.036	0.0853	0.098	0.175	0.181	0.497	0.479	
NITRATE-N (MG/L)	10000								0.41
NITRITE/NITRATE-N (MG/L)	10000								0.41
NITRITE-N (MG/L)	1000								0.004
PH (S.U.)	6.5 - 8.5	7.12	7.14	7.07	7.03	7	7.29	7.26	
SULFATE (MG/L)	250	83.9	96.7	88.6	82.9	78.3	98.7	90.3	81
TOTAL DISSOLVED SOLIDS (MG/L)	500	488	454	372	**554**	**558**	**652**	**672**	**550**
TOTAL ORGANIC CARBON (MG/L)	NA	7.37	1.34	1.31	2.46	2.47	3.08	2.99	4.9
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.05 U
TOTAL PHOSPHORUS (MG/L)	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.01 UR
TOTAL SUSPENDED SOLIDS (MG/L)	NA	17.5	11.5	11	4.5	5.5	2.5 U	2.5 U	5.1
FIELD RESULTS									
PH (S.U.)	6.5 - 8.5								7.05

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-04 NTC03GW0405-D 11/15/2007 QTR05 NTC03GW0405	SL-04 NTC03GW0406 03/04/2008 QTR06	SL-04 NTC03GW0407 05/05/2008 QTR07	SL-04 NTC03GW0407-D 05/05/2008 QTR07 NTC03GW0407
VOLATILE ORGANIC COMPOUNDS (UG/L)					
2-BUTANONE	4200	5 UJ	4.7 J	5 U	5 U
ACETONE	6300	5 U	12	5 UJ	5 UJ
BENZENE	5	1 U	1 U	1 U	1 U
CHLOROFORM	0.2	1 U	1 U	1 U	1 U
CHLOROMETHANE	160	1 U	1 U	1 U	1 U
TOLUENE	1000	1 U	0.15 J	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)					
1-METHYLNAPHTHALENE	NA	0.50 U	0.5 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.50 U	0.5 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.019 J	0.5 U	0.5 U	0.02 J
BENZO(A)ANTHRACENE	0.13	0.50 U	0.5 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.50 U	0.5 U	0.5 U	0.5 U
CAPROLACTAM	3500	1 U	1 UR	1 U	1 U
CHRYSENE	1.5	0.50 U	0.5 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	1 U	1 U	1.8 U	3.1 U
FLUORANTHENE	280	0.50 U	0.5 U	0.5 U	0.5 U
NAPHTHALENE	140	0.049 J	0.5 U	0.029 J	0.03 J
PHENANTHRENE	NA	0.50 U	0.5 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)					
4,4'-DDD	14	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDE	10	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDT	6	0.05 U	0.05 UJ	0.05 U	0.05 U
ENDRIN KETONE	2	0.05 U	0.05 UJ	0.05 U	0.05 U
HERBICIDES (UG/L)					
2,4,5-T	280	0.20 U	0.2 UJ	0.2 U	0.2 UJ
PENTACHLOROPHENOL	1				
PETROLEUM HYDROCARBONS (MG/L)					
OIL & GREASE - HEM	NA	5 U	5 U	0.830000 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)					
ALUMINUM	3500	44 U	62	20 U	20 U
ANTIMONY	6	1.1 U	0.44 U	0.54 U	0.58 U
ARSENIC	50	0.74 U	0.74 U	0.3	0.44
BARIUM	2000	81	73	75	72
BERYLLIUM	4	0.31 U	0.31 U	0.23 U	0.23 U
CADMIUM	5	0.062 U	0.062 U	0.056 U	0.056 U
CALCIUM	NA	89000 J	86000	88000	82000
CHROMIUM	100	0.31 U	0.31 U	0.51	0.37
COBALT	1000	1.4	0.98	0.93	0.77
COPPER	650	2.9	1.8 J	2.5	1.6
IRON	5000	94 J	160	110 J	250 J
LEAD	7.5	0.33 U	0.33 U	0.29 U	0.29 U
MAGNESIUM	NA	54000 J	55000	57000	57000
MANGANESE	150	46	32	35	31
NICKEL	100	8.2	4.4	6.2 J	3.4 J
POTASSIUM	NA	2400	2200	2100	2000

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-04** **NTC03GW0405-D** **11/15/2007** **QTR05** **NTC03GW0405**	**SL-04** **NTC03GW0406** **03/04/2008** **QTR06**	**SL-04** **NTC03GW0407** **05/05/2008** **QTR07**	**SL-04** **NTC03GW0407-D** **05/05/2008** **QTR07** **NTC03GW0407**
SELENIUM	50	0.92 U	0.92 U	0.30 U	0.30 U
SODIUM	NA	49000 J	40000	41000	35000
THALLIUM	2	0.17 U	0.17 U	0.074	0.06
VANADIUM	49	0.83 U	0.83 U	0.27 U	0.27 U
ZINC	5000	4.9 U	0.84 U	6.4 U	6.2 U
TOTAL ESSENTIAL NUTRIENTS	1200000	194400	183200	188100	176000
MISCELLANEOUS PARAMETERS					
AMMONIA-N (MG/L)	30	0.15	0.17	0.18	0.17
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	2 U	2 U	2.0 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	6.8 R	6.7	5.1	4
CHLORIDE (MG/L)	200	24	25	23	19
FECAL COLIFORM (COL/1)	NA	2 U	2 U	2.0 U	2.0 U
FLUORIDE (MG/L)	2	0.64	0.61	0.58	0.59
HEXAVALENT CHROMIUM (MG/L)	0.1	0.0076	0.0041 UJ	0.0041 UJ	0.0041 UJ
NITRATE (MG/L)	10				
NITRATE-N (MG/L)	10000	0.35	0.51	0.26	0.31
NITRITE/NITRATE-N (MG/L)	10000	0.36	0.51	0.26 U	0.31 U
NITRITE-N (MG/L)	1000	0.0055	0.0041	0.0029 U	0.0029 U
PH (S.U.)	6.5 - 8.5				
SULFATE (MG/L)	250	81	86	87	88
TOTAL DISSOLVED SOLIDS (MG/L)	500	**540**	**570**	**570**	**550**
TOTAL ORGANIC CARBON (MG/L)	NA	4.9	2.4	2.6	2.2
TOTAL PHENOLICS (MG/L)	0.1	0.05 U	0.0064	0.0048 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.01 UR	0.023	0.026	0.019
TOTAL SUSPENDED SOLIDS (MG/L)	NA	4.5	3.9	3.3 U	3.3 U
FIELD RESULTS					
PH (S.U.)	6.5 - 8.5		6.94	6.81	6.81

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-05 SL-05_20060809 08/09/2006 QTR01	SL-05 SL-05_20060809-D 08/09/2006 QTR01 SLF-05_20060809	SL-05 SL-05_20070123 01/23/2007 QTR02	SL-05 SL-05_20070502 05/02/2007 QTR03	SL-05 SL-05_20070802 08/02/2007 QTR04	SL-05 NTC03GW0505 11/15/2007 QTR05	SL-05 NTC03GW0506 03/03/2008 QTR06	SL-05 NTC03GW0507 05/05/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)									
2-BUTANONE	4200	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 UJ	5 U	5 U
ACETONE	6300	2.6	2.5 U	2.5 U	2.5 U	2.86 J	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROFORM	0.2	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.25 U	16.1	1 U	1 U	1 U
TOLUENE	1000	0.48	0.361 J	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)									
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.022 J	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.022 J	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.54 U	0.5 U	0.03 J
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.54 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.75 U	2.5 U	2.5 U	2.55 U	0.54 U	0.5 U	0.5 U
CAPROLACTAM	3500	2.5 U	2.75 U	2.5 U	2.5 U	2.55 U	1.1 U	0.15 J	1 UJ
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.54 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.75 U	2.5 U	2.5 U	2.55 U	1.1 U	1 U	3.9 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.54 U	0.5 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.043 J	0.5 U	0.5 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.0482 U	0.54 U	0.5 U	0.02 J
PESTICIDES/PCBs (UG/L)									
4,4'-DDD	14	0.0102 U	0.0108 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	10	0.0102 U	0.0108 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	6	0.0102 U	0.0108 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U
ENDRIN KETONE	2	0.0102 U	0.0108 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U
HERBICIDES (UG/L)									
2,4,5-T	280	0.1 U	0.104 U	0.168	0.1 U	0.0526 U	0.20 U	0.2 UJ	0.2 U
PENTACHLOROPHENOL	1	0.1 U	0.104 U	0.408	0.1 U	0.105 U			
PETROLEUM HYDROCARBONS (MG/L)									
OIL & GREASE - HEM	NA	2.55 U	2.63 U	2.55 U	2.55 U	2.58 U	5 U	5 U	1.1 J
INORGANICS - TOTAL / DISSOLVED (UG/L)									
ALUMINUM	3500	142	54.1 J	50 U	50 U	50 U	45	44 U	20 U
ANTIMONY	6	0.296	0.277 J	0.622	0.368	0.25 U	0.68 U	0.44 U	0.43 U
ARSENIC	50	12.2	5.46 J	5 U	5 U	5 U	0.78	1	0.7
BARIUM	2000	412	418	378	415	406	430	380	380
BERYLLIUM	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.31 U	0.31 U	0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.064	0.062 U	0.056 U
CALCIUM	NA	200000	213000	203000	230000	209000	200000 J	210000	220000
CHROMIUM	100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.31 U	0.31 U	0.72
COBALT	1000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.9	2.3	2.1
COPPER	650	5 U	5 U	5 U	5 U	5 U	2.7	0.82 J	0.89
IRON	5000	**13700**	**14000**	**13300**	**15900**	**13200**	**12000 J**	**14000**	**16000**
LEAD	7.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.94	0.33 U	0.29 U
MAGNESIUM	NA	89400	91600	87300	98700	89300	87000 J	88000	93000
MANGANESE	150	**318**	**318**	**358**	**423**	**395**	**390**	**420**	**460**
NICKEL	100	11.5	11.8 J	8.73	9.71	8.11 J	17	10	10
POTASSIUM	NA	6730	6850	7070	7110	7670	8000	7700	7100

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-05** **SL-05_20060809** **08/09/2006** **QTR01**	**SL-05** **SL-05_20060809-D** **08/09/2006** **QTR01** **SLF-05_20060809**	**SL-05** **SL-05_20070123** **01/23/2007** **QTR02**	**SL-05** **SL-05_20070502** **05/02/2007** **QTR03**	**SL-05** **SL-05_20070802** **08/02/2007** **QTR04**	**SL-05** **NTC03GW0505** **11/15/2007** **QTR05**	**SL-05** **NTC03GW0506** **03/03/2008** **QTR06**	**SL-05** **NTC03GW0507** **05/05/2008** **QTR07**
SELENIUM	50	8.51	10.1	5.45	4.24	0.791 J	0.92 U	1.2	1.3
SODIUM	NA	102000	105000	95200	106000	107000	110000 J	110000	100000
THALLIUM	2	0.777	0.638	0.05 U	0.307	0.05 U	0.17 U	0.17 U	0.05 U
VANADIUM	49	15.1	15.6	5 U	5 U	50 U	0.83 U	0.83 U	0.84
ZINC	5000	5 U	5 U	5 U	5 U	5 U	8	0.84 U	4.9 U
TOTAL ESSENTIAL NUTRIENTS	1200000	398130	416450	392570	441810	412970	405000	415700	420100
MISCELLANEOUS PARAMETERS									
AMMONIA-N (MG/L)	30	16.7	19.5	13.9	22.5	16.3	16 J	15	16
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	2.9	2.2 J	1.6	1.51	1.97 J	2 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	67.2	39.3	45.5	41.1	40.8	33 J	33	54 U
CHLORIDE (MG/L)	200	146	151	149	159	169	180	160	140
FECAL COLIFORM (COL/1)	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.0 U
FLUORIDE (MG/L)	2	0.3	0.29	0.287	0.21	0.255	0.27	0.24	0.24
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U		0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 UJ	0.0041 UJ
NITRATE (MG/L)	10	0.025 U	0.025 U	0.025 U	0.048	0.025 U			
NITRATE-N (MG/L)	10000						0.029 U	0.016 U	0.064 J
NITRITE/NITRATE-N (MG/L)	10000						0.029 U	0.016 U	0.064 U
NITRITE-N (MG/L)	1000						0.0034	0.0041	0.0029 U
PH (S.U.)	6.5 - 8.5	6.81	6.82	6.51	7.13	6.94			
SULFATE (MG/L)	250	136	131	163	161	135	120	150	180
TOTAL DISSOLVED SOLIDS (MG/L)	500	**1110**	**1110**	**1100**	**1210**	**1230**	**1100**	**1200**	**1200**
TOTAL ORGANIC CARBON (MG/L)	NA	26.9	30.2	15.9	21.7	4.94	18	14 J	17
TOTAL PHENOLICS (MG/L)	0.1	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.134	0.141	0.05 U	0.108	0.355	0.18 J	0.27	0.22
TOTAL SUSPENDED SOLIDS (MG/L)	NA	32	29.5	32	35.5	32	35	33	31
FIELD RESULTS									
PH (S.U.)	6.5 - 8.5						6.77	6.78	6.99

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-06 SL-06_20060808 08/08/2006 QTR01	SL-06 SL-06_20070116 01/16/2007 QTR02	SL-06 SL-06_20070507 05/07/2007 QTR03	SL-06 SL-06_20070806 08/06/2007 QTR04	SL-06 NTC03GW0605 11/16/2007 QTR05	SL-06 NTC03GW0606 02/28/2008 QTR06	SL-06 NTC03GW0606-D 02/28/2008 QTR06 NTC03GW0606	SL-06 NTC03GW0607 05/06/2008 QTR07
VOLATILE ORGANIC COMPOUNDS (UG/L)									
2-BUTANONE	4200	2.5 U	2.5 U	2.5 U	2.5 U	5 UJ	5 U	5 U	5 U
ACETONE	6300	2.5 U	2.5 U	2.5 U	2.5 U	5 U	5 U	5 U	5 UJ
BENZENE	5	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U	1 U
CHLOROFORM	0.2	0.125 U	0.125 U	0.125 U	0.125 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	160	0.25 U	0.25 U	0.25 U	0.7 J	1 U	1 U	1 U	1 U
TOLUENE	1000	0.25 U	0.25 U	0.25 U	0.25 U	1 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)									
1-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
ACENAPHTHENE	420	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.019 J
BENZO(A)ANTHRACENE	0.13	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	2.5 U	2.5 U	2.5 U	2.55 U	0.50 U	0.5 U	0.5 U	0.5 U
CAPROLACTAM	3500	2.5 U	2.5 U	2.5 U	2.55 U	1 U	1 UR	1 UR	1 U
CHRYSENE	1.5	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	700	2.5 U	2.5 U	2.5 U	2.55 U	0.49 J	1 U	1 U	2.4 U
FLUORANTHENE	280	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
NAPHTHALENE	140	0.0526 U	0.0859	0.0526 U	0.0526 U	0.061 J	0.5 U	0.5 U	0.5 U
PHENANTHRENE	NA	0.0526 U	0.0526 U	0.0526 U	0.0526 U	0.50 U	0.5 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)									
4,4'-DDD	14	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	10	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	6	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDRIN KETONE	2	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0067 J	0.05 U	0.05 U	0.05 U
HERBICIDES (UG/L)									
2,4,5-T	280	0.1 U	0.1 U	0.1 U	0.05 U	0.20 U	0.2 UJ	0.2 UJ	0.2 U
PENTACHLOROPHENOL	1	0.1 U	0.1 U	0.1 U	0.1 U				
PETROLEUM HYDROCARBONS (MG/L)									
OIL & GREASE - HEM	NA	2.55 U	2.55 U	2.55 U	2.58 U	5 U	5 U	5 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)									
ALUMINUM	3500	73.9	**4820**	50 U	50 U	100 J / 44 U	52 / 47	44 U / 44 U	230 / 27
ANTIMONY	6	0.289	3.71	0.25 U	0.25 U	0.57 U / 0.44 U	0.44 U / 0.44 U	0.44 U / 0.44 U	0.32 U / 0.32 U
ARSENIC	50	5 U	28.8	5 U	5 U	**56 / 4.7**	21 / 3.5	20 / 3.2	25 / 5.5
BARIUM	2000	50	101	56.1	60.1	130 / 52	79 / 52	77 / 50	99 / 51
BERYLLIUM	4	0.50 U	0.571	0.50 U	0.50 U	0.31 U / 0.31 U	0.31 U / 0.31 U	0.31 U / 0.31 U	0.23 U / 0.23 U
CADMIUM	5	2.5 U	2.5 U	2.5 U	2.5 U	0.091 / 0.062 U	0.062 U / 0.062 U	0.062 U / 0.062 U	0.056 U / 0.056 U
CALCIUM	NA	129000	178000	170000	169000	140000 J / 140000 J	160000 / 150000	150000 / 150000	150000 / 160000
CHROMIUM	100	2.5 U	8.24	2.5 U	2.5 U	0.31 U / 5.9	0.31 U / 0.31 U	0.31 U / 0.31 U	0.56 / 0.66
COBALT	1000	2.5 U	3.27	2.5 U	2.5 U	0.88 / 0.54	0.97 / 0.84	0.92 / 0.85	0.96 / 0.85
COPPER	650	5 U	9.92	5 U	5 U	2 / 0.71	1 J / 0.33 U	2.1 J / 1.2 J	1.4 / 0.88
IRON	5000	3690	**12900**	**7340**	3910	**54000 J / 5600 J**	**21000 / 3000**	**18000 / 2900**	**29000 / 6400**
LEAD	7.5	2.5 U	2.5 U	2.5 U	50 U	0.67 / 0.33 U	0.33 U / 0.33 U	0.33 U / 0.33 U	0.43 / 0.29 U
MAGNESIUM	NA	44000	63400	61200	55400	48000 J / 49000 J	55000 / 54000	53000 / 51000	53000 / 55000
MANGANESE	150	**553**	**844**	**823**	**660**	**670 / 650**	**770 / 760**	**780 / 730**	**780 / 760**
NICKEL	100	5 U	10.1	5 U	5 U	3.2 / 2.1	2.2 / 1.6 J	1.9 / 4.1 J	2.7 / 2.1
POTASSIUM	NA	732	3370	931	1380	1300 / 1300	1200 J / 1100 J	1000 J / 1100 J	1000 / 1100

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID **SAMPLE ID** **SAMPLE DATE** **ROUND** **DUPLICATE SAMPLE**	**Groundwater Criteria[1]**	**SL-06** **SL-06_20060808** **08/08/2006** **QTR01**	**SL-06** **SL-06_20070116** **01/16/2007** **QTR02**	**SL-06** **SL-06_20070507** **05/07/2007** **QTR03**	**SL-06** **SL-06_20070806** **08/06/2007** **QTR04**	**SL-06** **NTC03GW0605** **11/16/2007** **QTR05**	**SL-06** **NTC03GW0606** **02/28/2008** **QTR06**	**SL-06** **NTC03GW0606-D** **02/28/2008** **QTR06** **NTC03GW0606**	**SL-06** **NTC03GW0607** **05/06/2008** **QTR07**
SELENIUM	50	0.911	0.876	0.869	3.93	0.92 U / 0.92 U	0.92 U / 0.92 U	0.92 U / 0.92 U	0.30 U / 0.30 U
SODIUM	NA	60400	59300	51900	63600	50000 J / 52000 J	50000 / 50000	49000 / 47000	48000 / 50000
THALLIUM	2	0.924	0.129	0.05 U	0.407	0.17 U / 0.17 U	0.17 U / 0.17 U	0.17 U / 0.17 U	0.05 U / 0.05 U
VANADIUM	49	5 U	5 U	5 U	100 U	1.2 / 3	0.83 U / 0.83 U	0.83 U / 0.83 U	1.1 / 0.3
ZINC	5000	5 U	32.6	5 U	5 U	6.8 / 5.9	0.84 U / 7.3 J	0.84 U / 0.84 U	7.3 U / 7.9 U
TOTAL ESSENTIAL NUTRIENTS	1200000	234132	304070	284031	289380	239300 / 242300	266200 / 255100	253000 / 249100	252000 / 266100
MISCELLANEOUS PARAMETERS									
AMMONIA-N (MG/L)	30	0.33	0.397	0.381	0.459	0.23	0.26	0.26	0.24
BIOCHEMICAL OXYGEN DEMAND (MG/L)	NA	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	NA	11.4	21.3	13	23.5	37	2.200000 U	2.2	7.4
CHLORIDE (MG/L)	200	127	94.7	91.9	145	110	99	99	78
FECAL COLIFORM (COL/1)	NA	1 U	2 U	2 U	2 U	10 U	2 U	2 U	2.0 U
FLUORIDE (MG/L)	2	0.422	0.373	0.329	0.417	0.38	0.33	0.33	0.32
HEXAVALENT CHROMIUM (MG/L)	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.0041 U	0.0041 U	0.0041 U	0.0073 J
NITRATE (MG/L)	10	0.04	0.053	0.025 U	0.025 U				
NITRATE-N (MG/L)	10000					0.029 U	0.016 U	0.016 U	0.024 J
NITRITE/NITRATE-N (MG/L)	10000					0.029 U	0.022	0.016 U	0.027 U
NITRITE-N (MG/L)	1000					0.0039	0.0075	0.0057	0.003 J
PH (S.U.)	6.5 - 8.5	6.72	6.73	7.05	6.85				
SULFATE (MG/L)	250	132	205	199	121	130	160	150	180
TOTAL DISSOLVED SOLIDS (MG/L)	500	**816**	**824**	**862**	**798**	**750**	**790**	**800**	**790**
TOTAL ORGANIC CARBON (MG/L)	NA	5.86	12.6	4.38	4.17	9.3	12 J	9.7	7
TOTAL PHENOLICS (MG/L)	0.1	0.0037	0.00333 U	0.00333 U	0.00333 U	0.05 U	0.004800 U	0.004800 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	NA	0.072	0.195	0.05 U	0.281	1.2 J	3.6 J	2 J	1.3
TOTAL SUSPENDED SOLIDS (MG/L)	NA	2.5 U	89	17	7.5	36	82	75	72
FIELD RESULTS									
PH (S.U.)	6.5 - 8.5					6.75	6.72		6.93

TABLE 4-1

SUMMARY OF POSITIVE DETECTIONS AND CRITERIA COMPARISON FOR QUARTERLY GROUNDWATER MONITORING ROUNDS 1 - 6
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID SAMPLE ID SAMPLE DATE ROUND DUPLICATE SAMPLE	Groundwater Criteria[1]	SL-01 SL-01_20060801 08/01/2006 QTR01	SL-01 SL-01_20070115 01/15/2007 QTR02	SL-01 SL-01_20070426 04/26/2007 QTR03	SL-01 SL-01_20070731 07/31/2007 QTR04	SL-01 NTC03GW0105 11/15/2007 QTR05	SL-01 NTC03GW0106 02/27/2008 QTR06

(1) Groundwater criteria is either Illinois EPA Tiered Approach to Corrective Action Objectives (TACO) Groundwater Remediation Objectives (GROs) or USEPA primary or secondary maximum contaminant levels (MCLs).
(2) Bold/dark shaded cells indicate exceedance of TACO GRO or USEPA MCL.
(3) Gray shaded cells indicate positive detection
U = The value is not detected at the reported concentration and is considered not present in the sample.
J =The value is considered a quantitative estimate because it was less than the reporting limit or another technical noncompliance.
R = The value was rejected based on data validation.
NA = Not analyzed or not applicable.

TABLE 4-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
VOLATILE ORGANIC COMPOUNDS (UG/L)							
2-BUTANONE	3/45	0	0	4.38 - 4.7 J	NTC03GW0406	4	4200
ACETONE	7/45	0	0	2.6 - 23.3	SL-01_20070426	7	6300
BENZENE	1/45	0	0	0.822 - 0.822	SL-04_20070503	0.8	5
CHLOROFORM	1/45	0	0	0.199 - 0.199	SL-03_20070124	0.2	0.2
CHLOROMETHANE	4/45	0	0	0.634 J - 16.1	SL-05_20070802	5	160
TOLUENE	4/45	0	0	0.15 J - 0.48	SL-05_20060809	0.3	1000
SEMIVOLATILE ORGANIC COMPOUNDS (UG/L)							
1-METHYLNAPHTHALENE	1/45	0	0	0.022 J - 0.022 J	NTC03GW0505	0.02	NA
2-METHYLNAPHTHALENE	1/45	0	0	0.022 J - 0.022 J	NTC03GW0505	0.02	NA
ACENAPHTHENE	6/45	0	0	0.019 J - 0.03 J	NTC03GW0507	0.02	420
BENZO(A)ANTHRACENE	1/45	0	0	0.05 J - 0.05 J	NTC03GW0107	0.05	0.13
BIS(2-ETHYLHEXYL)PHTHALATE	2/45	0	0	2.1 - 2.5	NTC03GW0307	2	6
CAPROLACTAM	3/41	0	0	0.15 J - 31	NTC03GW0205	11	3500
CHRYSENE	1/45	0	0	0.029 J - 0.029 J	NTC03GW0405	0.03	1.5
DI-N-BUTYL PHTHALATE	1/45	0	0	0.49 J - 0.49 J	NTC03GW0605	0.5	700
FLUORANTHENE	2/45	0	0	0.019 J - 0.02 J	NTC03GW0107	0.02	280
NAPHTHALENE	11/45	0	0	0.029 J - 0.0859	SL-06_20070116	0.05	140
PHENANTHRENE	1/45	0	0	0.02 J - 0.02 J	NTC03GW0507	0.02	NA
PESTICIDES/PCBs (UG/L)							
4,4'-DDD	1/45	0	0	0.0035 J - 0.0035 J	NTC03GW0205	0.0035	14
4,4'-DDE	1/45	0	0	0.0059 J - 0.0059 J	NTC03GW0205	0.0059	10
4,4'-DDT	1/45	0	0	0.0027 J - 0.0027 J	NTC03GW0205	0.0027	6
ENDRIN KETONE	1/45	0	0	0.0067 J - 0.0067 J	NTC03GW0605	0.0067	2
HERBICIDES (UG/L)							
2,4,5-T	1/45	0	0	0.168 - 0.168	SL-05_20070123	0.17	280
PENTACHLOROPHENOL	4/24	0	0	0.251 - 0.408	SL-05_20070123	0.33	1
PETROLEUM HYDROCARBONS (MG/L)							
OIL & GREASE - HEM	2/45	0	0	1.1 J - 1.3 J	NTC03GW0205	1.2	NA
INORGANICS (UG/L)							
ALUMINUM	29/45	2	0	41 - 12000 J	NTC03GW0205	1071	3500
ALUMINUM - DISSLOVED	6/10	0	0	26 - 2200	NTC03GW0206	405	3500
ANTIMONY	13/45	0	0	0.277 J - 3.91	SL-03_20070124	1.06	6
ANTIMONY - DISSLOVED	2/10	0	0	0.41 - 0.55	NTC03GW0307	0.48	6
ARSENIC	23/45	1	0	0.3 - 56	NTC03GW0605	9.7	50
ARSENIC - DISSLOVED	10/10	0	0	0.64 - 5.5	NTC03GW0607	3.4	50
BARIUM	45/45	0	0	22 - 430	NTC03GW0505	126.3	2000
BARIUM - DISSLOVED	10/10	0	0	18 - 64	NTC03GW0206	42.5	2000
BERYLLIUM	2/45	0	0	0.571 - 0.8	NTC03GW0205	0.69	4
CADMIUM	5/45	0	0	0.064 - 0.44	NTC03GW0305	0.15	5
CALCIUM	45/45	0	0	41900 - 230000	SL-05_20070502	121687	NA
CALCIUM - DISSLOVED	10/10	0	0	58000 - 170000	NTC03GW0107	112800	NA

TABLE 4-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
CHROMIUM	9/45	0	0	0.37 - 15	NTC03GW0205	3.4	100
CHROMIUM - DISSLOVED	5/10	0	0	0.66 - 5.9	NTC03GW0605	2.3	100
COBALT	22/45	0	0	0.22 - 5.9	NTC03GW0205	1.47	1000
COBALT - DISSLOVED	10/10	0	0	0.14 - 1.1	NTC03GW0107	0.60	1000
COPPER	22/45	0	0	0.67 J - 18	NTC03GW0205	3.09	650
COPPER - DISSLOVED	9/10	0	0	0.48 J - 2.3 J	NTC03GW0206	0.95	650
IRON	45/45	15	2	92.1 J - 54000 J	NTC03GW0605	6721	5000
IRON - DISSLOVED	9/10	2	1	620 - 6400	NTC03GW0607	2551	5000
LEAD	10/45	1	0	0.4 - 14	NTC03GW0205	2.2	7.5
LEAD - DISSLOVED	1/10	0	0	1.9 - 1.9	NTC03GW0206	1.9	7.5
MAGNESIUM	45/45	0	0	39900 - 100000 J	NTC03GW0205	69018	NA
MAGNESIUM - DISSLOVED	10/10	0	0	49000 J - 90000	NTC03GW0206	69800	NA
MANGANESE	45/45	20	3	16.3 - 844	SL-06_20070116	248	150
MANGANESE - DISSLOVED	10/10	4	1	20 - 760	NTC03GW0606, NTC03GW0607	320	150
NICKEL	29/45	0	0	0.77 - 19	NTC03GW0205	6.7	100
NICKEL - DISSLOVED	10/10	0	0	0.71 - 4.4 J	NTC03GW0206	2.5	100
POTASSIUM	45/45	0	0	732 - 8000	NTC03GW0505	3153	NA
POTASSIUM - DISSLOVED	10/10	0	0	1100 J - 3900	NTC03GW0206	2080	NA
SELENIUM	22/45	0	0	0.535 - 10.1	SL-05_20060809-D	2.3	50
SELENIUM - DISSLOVED	1/10	0	0	1 - 1	NTC03GW0205	1.0	50
SODIUM	45/45	0	0	31400 - 300000	NTC03GW0207	71553	NA
SODIUM - DISSLOVED	10/10	0	0	33000 - 270000	NTC03GW0206	92100	NA
THALLIUM	18/45	0	0	0.055 - 1.19	SL-01_20070731	0.35	2
THALLIUM - DISSLOVED	1/10	0	0	0.35 - 0.35	NTC03GW0205	0.35	2
VANADIUM	14/45	0	0	0.54 - 20	NTC03GW0205	6.8	49
VANADIUM - DISSLOVED	6/10	0	0	0.3 - 3	NTC03GW0605	1.4	49
ZINC	11/45	0	0	5.45 J - 48	NTC03GW0205	14.1	5000
ZINC - DISSLOVED	5/10	0	0	5.6 - 15	NTC03GW0305	8.5	5000
TOTAL ESSENTIAL NUTRIENTS	45/45	0	0	122740 - 467700	NTC03GW0205	265411	1200000
TOTAL ESSENTIAL NUTRIENTS - DISSLOVED	10/10	0	0	208500 - 421900	NTC03GW0206	276780	1200000

TABLE 4-2

SUMMARY OF DESCRIPTIVE STATISTICS AND CRITERIA COMPARISONS FOR GROUNDWATER DATA - QUARTERLY MONITORING ROUNDS 1 - 7
SUPPLYSIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

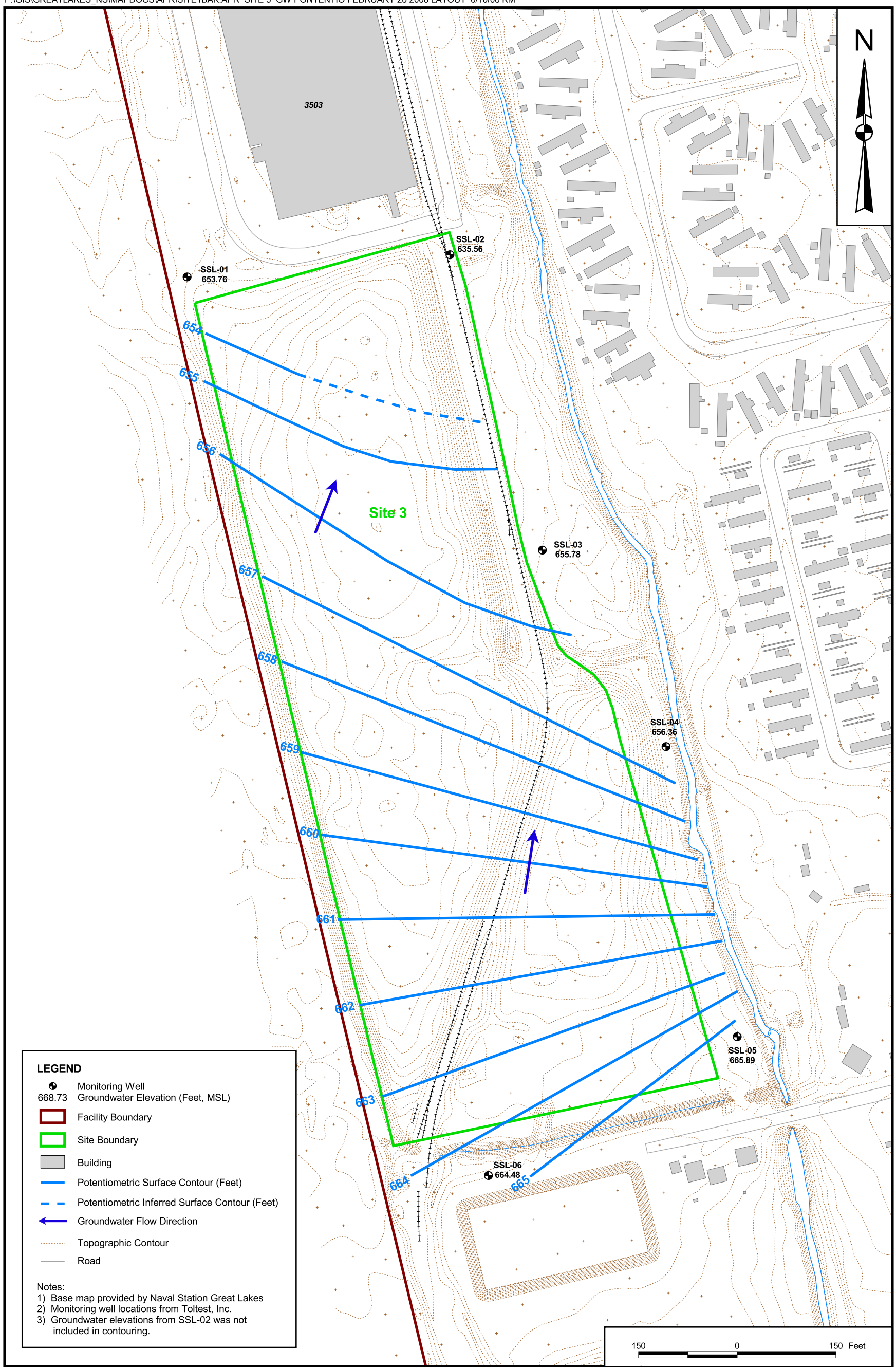
Parameter	Frequency of Detection (1)	Criteria Exceedances	Round 7 Criteria Exceedances	Range of Detects	Sample with Maximum Concentration	Average of Positive Results	Groundwater Criteria(2)
MISCELLANEOUS PARAMETERS							
AMMONIA-N (MG/L)	45/45	0	0	0.15 - 22.5	SL-05_20070502	3.3	30
BIOCHEMICAL OXYGEN DEMAND (MG/L)	19/45	0	0	1.51 - 8.8	NTC03GW0306	5.7	NA
CHEMICAL OXYGEN DEMAND (MG/L)	27/41	0	0	2.2 - 67.2	SL-05_20060809	20.1	NA
CHLORIDE (MG/L)	45/45	3	1	1.82 J - 590	NTC03GW0207	97.5	200
FECAL COLIFORM (COL/1)	1/45	0	0	887 - 887	NTC03GW0205	887	NA
FLUORIDE (MG/L)	45/45	0	0	0.21 - 0.79	NTC03GW0305	0.51	2
HEXAVALENT CHROMIUM (MG/L)	5/44	0	0	0.0051 - 0.0076	NTC03GW0405, NTC03GW0405-D	0.0065	0.1
NITRATE (MG/L)	11/24	0	0	0.036 - 0.497	SL-04_20070821	0.16	10
NITRATE-N (MG/L)	12/21	0	0	0.024 J - 0.51	NTC03GW0406	0.19	10000
NITRITE/NITRATE-N (MG/L)	6/21	0	0	0.022 - 0.51	NTC03GW0406	0.25	10000
NITRITE-N (MG/L)	14/21	0	0	0.003 J - 0.0075	NTC03GW0106, 'NTC03GW0606	0.0047	1000
PH (S.U.)	24/24	0	0	6.51 - 7.72	SL-03_20070801	7.2	6.5 - 8.5
SULFATE (MG/L)	45/45	8	2	24.1 - 370	NTC03GW0106	155	250
TOTAL DISSOLVED SOLIDS (MG/L)	45/45	40	7	372 - 1300	NTC03GW0206, 'NTC03GW0207	810	500
TOTAL ORGANIC CARBON (MG/L)	45/45	0	0	0.777 J - 30.2	SL-05_20060809-D	6.8	
TOTAL PHENOLICS (MG/L)	4/45	0	0	0.0037 - 0.00842	SL-01_20060801	0.0061	0.1
TOTAL PHOSPHORUS (MG/L)	27/45	0	0	0.018 - 3.6 J	NTC03GW0606	0.48	NA
TOTAL SUSPENDED SOLIDS (MG/L)	39/45	0	0	3.9 - 750	NTC03GW0205	55.2	NA
FIELD RESULTS							
PH (S.U.)	18/18	2	1	6.72 - 8.57	NTC03GW0207	7.2	6.5 - 8.5

1 - The average concentrations were calculated by using one-half the detection limit for non-detects.
2 - Groundwater criteria is either Illinois EPA Tiered Approach to Corrective Action Objectives (TACO) Groundwater Remediation Objectives (GROs) or USEPA secondary maximum contaminant levels (MCLs).
J =The value is considered a quantitative estimate because it was less than the reporting limit or another technical noncompliance.

Associated Samples:

NTC03GW0105	NTC03GW0406	SL-01_20070115	SL-04_20070503-D
NTC03GW0106	NTC03GW0407	SL-01_20070426	SL-04_20070821
NTC03GW0107	NTC03GW0407-D	SL-01_20070731	SL-04_20070821-D
NTC03GW0205	NTC03GW0505	SL-03_20060802	SL-05_20060809
NTC03GW0206	NTC03GW0506	SL-03_20070124	SL-05_20060809-D
NTC03GW0207	NTC03GW0507	SL-03_20070501	SL-05_20070123
NTC03GW0305	NTC03GW0605	SL-03_20070801	SL-05_20070502
NTC03GW0306	NTC03GW0606	SL-04_20060814	SL-05_20070802
NTC03GW0307	NTC03GW0606-D	SL-04_20070125	SL-06_20060808
NTC03GW0405	NTC03GW0607	SL-04_20070125-D	SL-06_20070116
NTC03GW0405-D	SL-01_20060801	SL-04_20070503	SL-06_20070507

P:\GIS\GREATLAKES_NS\MAPDOCS\APR\SITE1BAK.APR SITE 3 GW PONTENTIO FEBRUARY 28 2008 LAYOUT 6/10/08 KM



DRAWN BY S. STROZ	DATE 05/13/08	GROUNDWATER POTENTIOMETRIC SURFACE MAY 2008, ROUND 7 SITE 3 SUPPLYSIDE LANDFILL NAVAL STATION GREAT LAKES GREAT LAKES, ILLINOIS	CONTRACT NUMBER 01050
CHECKED BY M. MENGEL	DATE 6/10/08		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 4-1 REV 0

REFERENCES

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APPENDIX A

FIELD FORMS

A.1

FIELD NOTEBOOK

TITLE GREAT LAKES SITES 2+3 **PROJECT NO.**

SUNDAY 6-4-08 **BOOK**

Work continued from Page

1730 DRIVE TO AIRPORT
FLY TO CHICAGO O'HARE
PICK UP RENTAL CAR AND drive to hotel.

2200 ARRIVE @ hotel

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE [signature] DATE 5/4/08

WITNESS DATE

TITLE **PROJECT NO.**

Monday 5/5/08 **BOOK**

Work continued from Page

WEATHER: Sunny 60° AM 75° PM

0630 LEAVE hotel. Go pick up nitrogen AT AIRGAS. Pick up drum AT EMC

0815 AT PASS office to get vehicle PASS.

0900 AT WAREHOUSE. ~~[illegible]~~ INVENTORY equipment + bottle ware.

0930 TIM EVANS @ site. GOES TO PASS office.

1000 MEET WITH TIM @ NAVFAC BLDG. (H.H., B.B office). PICK UP All equip @ office. Go BACK TO WAREHOUSE.

INVENTORY All equipment. check bottle sets; call labs; calibrate All instruments.

1230 Go get sandwich.

1300 Go to start sampling.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE [signature] DATE 5/5/08

WITNESS DATE

TITLE **PROJECT NO.**

BOOK

Work continued from Page

1330 TE samples SL-04
MM samples SL-05

Sampling details on GW sample logs in EDATA.

SL-04 sampled @ (duplicate)
SL-05 sampled @ (MS/MSD)

1730 OFFSITE. Drive to get additional ice for samples. Package samples and go to FEDEX.

1830 Back @ hotel

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE Mark L Mengel DATE 5/5/08

WITNESS DATE

TITLE **PROJECT NO.**

Tues. 5/6/08 **BOOK**

Work continued from Page

WEATHER: AM-60° PM 80°

0630 Leave hotel. MM stops for ice. TE goes to site to dump H^2O.

0700 At warehouse. Calibrate equipment prep bottleware and supplies for AM.

0800 Leave warehouse. TE to sample SL-02
MM to sample SL-03.

TE collected sample (SL02) @
MM collected sample (SL-03) @

1130 MM met with TE. TE finishing up @ SL-02.

MM dumps H^2O; sets up @ SL-01

1230 MM meets courier (Fed Ex)

Returns to begin purging SL-01

TE finishes and goes to set up @ SL-0

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE Mark L Mengel DATE 5/6/08

WITNESS DATE

TITLE

PROJECT NO.

BOOK

Work continued from Page

MM samples ~~SL-05~~ SL-01 @ 1500
TE samples SL-06 @

1615 MM Finishes up @ SL-01. Goes to meet up with TE @ SL-06

1730 Clean up and pack samples do C.O.Cs; sync., go to WALMART for ice and finish samples

1830 @ FED EX; OFF SITE

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE Mark L. Mengel DATE 5/6/08

WITNESS DATE

TITLE Wed. 5/7/08

PROJECT NO.

BOOK

Work continued from Page

WEATHER AM° Rain 70°
PM° clouds 70°

0700 ONSITE; calibrate instruments; dump H_2O from yesterday.

0800 Raining pretty hard. Looks like it may clear. Go get a coffee before starting

0900 MM @ FL-05; TE @ FL-01

MM samples FL-05 @
TE samples FL-01 @

1215 Meet Test America courier at gate;

1300 MM setting up @ FL-06
TE setting up @ FL-04

MM samples FL-06 @ 1500
TE samples FL-04 @

1700 Wrapping up sampling. Breakdown equipment. Pack all samples; go to WALMART for ice and to finish

1830 FED EX.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE Mark L. Mengel DATE 5/7/08

WITNESS DATE

TITLE **PROJECT NO.**

Thursday 5/8/08 **BOOK**

Work continued from Page

WEATHER: AM Sunny 50°
PM

0700 ONSITE; calibrate equipment; Prep for sampling

0815 MM @ FL-03
TE @ FL-02

0900 IWS contact called and asked if they could pick up on Tuesday, 5/13/08 I gave him MARK HOYER's number and said I would call as well.

1000 MM sampled FL-03.
0940 TE sampled FL-02.

1145 Finished sampling. Tim finished Around 1110.

Went to warehouse to inventory equipment; pack samples, prepare everything for shipping.

1300 TAKE NAVY equipment back to B.B. office.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE Mark L Nagel DATE 5/8/08

WITNESS DATE

TITLE **PROJECT NO.**

BOOK

Work continued from Page

1430 BACK @ warehouse. Do final packing TAKE back cylinders to Airgas. go to FED EX.

1530 OFFSITE.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE DATE

WITNESS DATE

A.2

GROUNDWATER SAMPLE LOGS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	5/1/08	**Modified Date**	5/27/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0107
TtNUS Project #	112G01050	**Well ID**	FL-01
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	16.10	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To Stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	09:41	16.10	110	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/7/08	09:46	16.32	110	Clear	6.70	1.73	4.81	5.73	12.58	257	NA	NA	550
5/7/08	09:50	16.43	125	Clear	6.85	1.82	3.16	2.65	12.19	250	NA	NA	500
5/7/08	10:00	16.80	125	Clear	6.85	1.86	1.58	3.17	12.16	232	NA	NA	1250
5/7/08	10:10	16.83	125	Clear	6.95	1.87	1.21	2.59	12.22	231	NA	NA	1250
5/7/08	10:20	17.35	110	Clear	6.97	1.88	0.70	2.47	12.22	210	NA	NA	1100
5/7/08	10:30	17.45	110	Clear	6.98	1.89	0.66	1.06	12.20	207	NA	NA	1100
5/7/08	10:35	17.65	110	Clear	6.91	1.89	0.61	1.55	12.14	208	NA	NA	550

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	10:40	17.81	110	Clear	6.98	1.88	0.58	1.15	12.14	200	NA	NA	550
5/7/08	10:45	17.84	110	Clear	6.97	1.89	0.58	0.92	12.21	202	NA	NA	550
5/7/08	10:50	18.01	110	Clear	6.95	1.89	0.57	1.53	12.23	198	NA	NA	550

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.57
Total Vo. Purge (L)	7.95	**Waterlevel (ft.)**	18.01	**Turbidity (NTUs)**	1.53
Start Purge (hrs.)	10:41:00 AM	**Flowrate (mL/min)**	110	**Temp (C)**	12.23
End Purge (hrs.)	11:50:00 AM	**Color**	Clear	**ORP (mV)**	198
Total Purge Time (min.)	69	**pH (S.U.)**	6.95	**Salinity**	NA
		Conductivity (mS/cm)	1.89	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/7/08	10:55	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-6
✓	5/7/08	10:55	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/7/08	10:55	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-6
✓	5/7/08	10:55	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-6
✓	5/7/08	10:55	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-5
✓	5/7/08	10:55	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-6
✓	5/7/08	10:55	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-6
✓	5/7/08	10:55	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-5
✓	5/7/08	10:55	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	10:55	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-6
✓	5/7/08	10:55	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-6
✓	5/7/08	10:55	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/7/08	10:55	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-5
✓	5/7/08	10:55	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	10:55	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	10:55	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-5
✓	5/7/08	10:55	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6
✗			SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/20/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0207
TtNUS Project #	112G01050	**Well ID**	FL-02
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	38.31	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/8/08	08:25	38.31	125	Cloudy	NA	NA	NA	NA	NA	NA	NA	NA	0
5/8/08	08:31	38.46	125	Cloudy	6.69	0.630	1.11	186	10.89	124	NA	NA	750
5/8/08	08:35	38.55	125	Cloudy	7.04	0.654	0.77	161	11.12	70	NA	NA	500
5/8/08	08:45	38.75	125	Cloudy	7.58	0.666	0.53	133	11.13	-7	NA	NA	1250
5/8/08	08:55	39.00	125	Cloudy	7.93	0.664	0.44	101.0	11.18	-49	NA	NA	1250
5/8/08	09:05	39.30	125	Clear	8.19	0.663	0.40	63.1	11.13	-81	NA	NA	1250
5/8/08	09:10	39.43	125	Clear	8.23	0.663	0.38	50.6	11.12	-86	NA	NA	625
5/8/08	09:15	39.60	125	Clear	8.30	0.664	0.40	60.7	11.16	-90	NA	NA	625

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/8/08	09:20	39.66	125	Clear	8.29	0.663	0.38	51.3	11.18	-96	NA	NA	625
5/8/08	09:25	39.77	125	Clear	8.35	0.663	0.36	47.1	11.11	-103	NA	NA	625
5/8/08	09:30	39.90	125	Clear	8.36	0.664	0.35	47.9	11.16	-103	NA	NA	625
5/8/08	09:35	40.05	125	Clear	8.38	0.664	0.35	47.4	11.16	-110	NA	NA	625

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.35
Total Vo. Purge (L)	8.75	**Waterlevel (ft.)**	40.05	**Turbidity (NTUs)**	47.4
Start Purge (hrs.)	8:25:00 AM	**Flowrate (mL/min)**	125	**Temp (C)**	11.16
End Purge (hrs.)	9:35:00 AM	**Color**	Clear	**ORP (mV)**	-110
Total Purge Time (min.)	70	**pH (S.U.)**	8.38	**Salinity**	NA
		Conductivity (mS/cm)	0.664	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/8/08	09:40	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-7
✓	5/8/08	09:40	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/8/08	09:40	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-9
✓	5/8/08	09:40	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-7
✓	5/8/08	09:40	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-9
✓	5/8/08	09:40	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-9
✓	5/8/08	09:40	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	09:40	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	09:40	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-7
✓	5/8/08	09:40	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-9
✓	5/8/08	09:40	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-9
✓	5/8/08	09:40	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-9
✓	5/8/08	09:40	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-9
✓	5/8/08	09:40	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	09:40	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-7
✓	5/8/08	09:40	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/8/08	09:40	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-9
✓	5/8/08	09:40	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-9

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0307
TtNUS Project #	112G01050	**Well ID**	FL-03
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	6.50	**Water Quality Meter**	QD-01610
Purge Method	Low flow - bladder			**Pump Control Box**	QD-1780
Sampling Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Turbidity Meter**	SN-ME-11550
MS/MSD Collected?		**Well Riser Diameter (in.)**	2		
Duplicate Sample Collected?	N	**Well Volumes Req.**	To Stabilization		
Corresponding Duplicate Sample ID		**Monitor Reading (ppm)**	NM		

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/8/08	08:35	6.50	200	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA	NA	0
5/8/08	08:40	8.70	120	Slightly Turbid	6.58	1.77	1.38	16.1	9.86	-58	NA	NA	600
5/8/08	08:50	9.95	120	Slightly Turbid	6.59	1.78	0.86	56.6	9.39	-57	NA	NA	1200
5/8/08	09:00	10.70	120	Slightly Turbid	6.56	1.78	0.69	125	9.52	-57	NA	NA	1200
5/8/08	09:10	11.70	120	Slightly Turbid	6.54	1.78	0.61	62.7	9.58	-56	NA	NA	1200
5/8/08	09:20	12.60	120	Slightly Turbid	6.53	1.78	0.54	32.3	9.60	-54	NA	NA	1200
5/8/08	09:30	12.60	120	Slightly Turbid	6.52	1.78	0.46	18.5	9.81	-53	NA	NA	1200
5/8/08	09:40	12.60	120	Clear	6.51	1.78	0.40	13.6	9.82	-53	NA	NA	1200

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/8/08	09:50	12.60	120	Clear	6.51	1.78	0.36	10.7	9.91	-52	NA	NA	1200
5/8/08	10:00	12.60	120	Clear	6.50	1.78	0.35	9.32	9.92	-50	NA	NA	1200

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.35
Total Vo. Purge (L)	10.2	**Waterlevel (ft.)**	12.60	**Turbidity (NTUs)**	9.32
Start Purge (hrs.)	8:35:00 AM	**Flowrate (mL/min)**	120	**Temp (C)**	9.92
End Purge (hrs.)	10:00:00 AM	**Color**	Clear	**ORP (mV)**	-50
Total Purge Time (min.)	85	**pH (S.U.)**	6.50	**Salinity**	NA
		Conductivity (mS/cm)	1.78	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/8/08	10:00	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-9
✓	5/8/08	10:00	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-9
✓	5/8/08	10:00	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-7
✓	5/8/08	10:00	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-9
✓	5/8/08	10:00	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/8/08	10:00	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-7
✓	5/8/08	10:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-9
✓	5/8/08	10:00	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	10:00	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-7
✓	5/8/08	10:00	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	10:00	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-9
✓	5/8/08	10:00	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-9
✓	5/8/08	10:00	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-9
✓	5/8/08	10:00	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-7
✓	5/8/08	10:00	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/8/08	10:00	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-9
✓	5/8/08	10:00	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-9
✓	5/8/08	10:00	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-9

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/20/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0407
TtNUS Project #	112G01050	**Well ID**	FL-04
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	7.45	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	Y	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID	NTCFD050708-01				

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	13:44	7.45	250	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/7/08	13:50	8.30	200	Clear	6.68	3.84	3.45	5.51	11.46	-72	NA	NA	1200
5/7/08	13:54	8.25	200	Clear	6.68	3.51	1.40	5.38	11.73	-80	NA	NA	800
5/7/08	13:59	8.25	200	Clear	6.62	3.49	1.02	2.79	11.78	-80	NA	NA	1000
5/7/08	14:10	8.30	200	Clear	6.67	3.48	0.37	1.54	11.51	-83	NA	NA	2200
5/7/08	14:20	8.21	200	Clear	6.64	3.48	0.25	1.84	11.46	-80	NA	NA	2000
5/7/08	14:30	8.31	200	Clear	6.71	3.48	0.17	1.84	11.69	-88	NA	NA	2000
5/7/08	14:40	8.28	200	Clear	6.69	3.49	0.15	1.79	11.43	-88	NA	NA	2000

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	14:50	8.28	200	Clear	6.72	3.49	0.13	1.42	11.41	-90	NA	NA	2000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.13
Total Vo. Purge (L)	13.2	**Waterlevel (ft.)**	8.28	**Turbidity (NTUs)**	1.42
Start Purge (hrs.)	2:44:00 PM	**Flowrate (mL/min)**	200	**Temp (C)**	11.41
End Purge (hrs.)	3:50:00 PM	**Color**	Clear	**ORP (mV)**	-90
Total Purge Time (min.)	66	**pH (S.U.)**	6.72	**Salinity**	NA
		Conductivity (mS/cm)	3.49	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/7/08	14:55	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-7
✓	5/7/08	14:55	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-6
✓	5/7/08	14:55	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	14:55	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/7/08	14:55	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-6
✓	5/7/08	14:55	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-7
✓	5/7/08	14:55	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	14:55	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-7
✓	5/7/08	14:55	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-6
✓	5/7/08	14:55	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-6
✓	5/7/08	14:55	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-7
✓	5/7/08	14:55	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-6
✓	5/7/08	14:55	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-6
✓	5/7/08	14:55	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/7/08	14:55	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	14:55	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-6
✓	5/7/08	14:55	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6
✗			SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0507
TtNUS Project #	112G01050	**Well ID**	FL-05
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	39.95	**Water Quality Meter**	QD-01610
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	QD-1780
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME-11550
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	na		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	09:40	39.95	160	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA	NA	0
5/7/08	09:45	40.17	160	Slightly Turbid	7.26	0.920	9.69	12.4	12.74	-136	NA	NA	800
5/7/08	09:55	40.45	160	Clear	7.75	0.917	8.12	21.3	12.44	-171	NA	NA	1600
5/7/08	10:05	40.68	140	Clear	7.88	0.917	6.85	15.9	12.54	-176	NA	NA	1400
5/7/08	10:15	40.90	120	Clear	7.92	0.917	5.81	15.0	12.52	-176	NA	NA	1200
5/7/08	10:25	41.10	120	Clear	7.94	0.918	5.04	27.4	12.55	-175	NA	NA	1200
5/7/08	10:35	41.45	120	Clear	7.95	0.918	4.13	18.0	12.46	-173	NA	NA	1200
5/7/08	10:45	41.60	120	Clear	7.93	0.917	3.54	23.4	12.48	-173	NA	NA	1200

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	3.54
Total Vo. Purge (L)	8.6	**Waterlevel (ft.)**	41.60	**Turbidity (NTUs)**	23.4
Start Purge (hrs.)	9:40:00 AM	**Flowrate (mL/min)**	120	**Temp (C)**	12.48
End Purge (hrs.)	10:45:00 AM	**Color**	Clear	**ORP (mV)**	-173
Total Purge Time (min.)	65	**pH (S.U.)**	7.93	**Salinity**	NA
		Conductivity (mS/cm)	0.917	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/7/08	11:00	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-6
✓	5/7/08	11:00	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	11:00	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/7/08	11:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-6
✓	5/7/08	11:00	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-6
✓	5/7/08	11:00	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	11:00	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-6
✓	5/7/08	11:00	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-5
✓	5/7/08	11:00	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-5
✓	5/7/08	11:00	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/7/08	11:00	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-6
✓	5/7/08	11:00	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-6
✓	5/7/08	11:00	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-6
✓	5/7/08	11:00	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	11:00	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-5
✓	5/7/08	11:00	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-5
✓	5/7/08	11:00	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6
✓	5/7/08	11:00	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC02GW0607
TtNUS Project #	112G01050	**Well ID**	FL-06
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	9.60	**Water Quality Meter**	QD-01610
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	35	**Pump Control Box**	QD-1780
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME-11550
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NA		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	13:00	9.60	200	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA	NA	0
5/7/08	13:10	12.20	120	Clear	7.49	1.284	1.14	31.6	11.90	139	NA	NA	1200
5/7/08	13:20	14.20	120	Clear	7.46	1.285	0.76	15.4	11.58	80	NA	NA	1200
5/7/08	13:30	15.20	120	Clear	7.37	1.286	0.64	12.2	11.99	61	NA	NA	1200
5/7/08	13:40	17.05	120	Clear	7.31	1.286	0.63	16.0	12.20	59	NA	NA	1200
5/7/08	13:50	18.15	100	Clear	7.25	1.283	0.59	17.9	13.18	58	NA	NA	1000
5/7/08	14:00	18.40	100	Clear	7.17	1.284	0.60	28.7	13.44	60	NA	NA	1000
5/7/08	14:10	19.20	100	Clear	7.14	1.283	0.59	20.8	13.31	62	NA	NA	1000

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/7/08	14:20	19.60	100	Clear	7.13	1.284	0.60	24.7	13.36	62	NA	NA	1000
5/7/08	14:30	19.85	100	Clear	7.18	1.289	0.59	31.9	13.98	60	NA	NA	1000
5/7/08	14:40	20.10	100	Clear	7.12	1.295	0.60	30.3	13.58	60	NA	NA	1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.60
Total Vo. Purge (L)	10.8	**Waterlevel (ft.)**	20.10	**Turbidity (NTUs)**	30.3
Start Purge (hrs.)	1:00:00 PM	**Flowrate (mL/min)**	100	**Temp (C)**	13.58
End Purge (hrs.)	2:40:00 PM	**Color**	Clear	**ORP (mV)**	60
Total Purge Time (min.)	100	**pH (S.U.)**	7.12	**Salinity**	NA
		Conductivity (mS/cm)	1.295	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/7/08	15:00	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-6
✓	5/7/08	15:00	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-7
✓	5/7/08	15:00	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-8
✓	5/7/08	15:00	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-6
✓	5/7/08	15:00	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	15:00	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-6
✓	5/7/08	15:00	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-7
✓	5/7/08	15:00	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-8
✓	5/7/08	15:00	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	15:00	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-6
✓	5/7/08	15:00	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-6
✓	5/7/08	15:00	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-6
✓	5/7/08	15:00	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-7
✓	5/7/08	15:00	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-7
✓	5/7/08	15:00	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-6
✓	5/7/08	15:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-6
✓	5/7/08	15:00	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6
✓	5/7/08	15:00	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-6

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0107
TtNUS Project #	112G01050	**Well ID**	SL-01
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	28.95	**Water Quality Meter**	QD-01610
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	QD-1780
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME-11550
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NA		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	12:40	28.95	160	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/6/08	12:50	29.20	150	Slightly Turbid	7.57	1.52	0.64	68.8	11.63	-65	NA	NA	1500
5/6/08	13:00	29.20	150	Slightly Turbid	7.25	1.55	0.91	40.0	11.61	-52	NA	NA	1500
5/6/08	13:10	29.20	150	Slightly Turbid	7.01	1.54	0.69	16.5	11.70	-21	NA	NA	1500
5/6/08	13:20	29.20	150	Slightly Turbid	6.96	1.54	0.57	19.0	11.77	-10	NA	NA	1500
5/6/08	13:30	29.20	150	Slightly Turbid	6.96	1.53	0.58	20.2	11.86	-1	NA	NA	1500
5/6/08	13:40	29.20	150	Slightly Turbid	6.97	1.500	0.53	19.5	11.93	5	NA	NA	1500
5/6/08	13:50	29.20	150	Clear	6.97	1.490	0.51	5.23	12.19	0	NA	NA	1500

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	14:00	29.20	150	Clear	6.97	1.465	0.50	2.91	12.28	-3	NA	NA	1500
5/6/08	14:10	29.20	150	Clear	6.99	1.448	0.46	4.07	12.33	-4	NA	NA	1500
5/6/08	14:20	29.2	150	Clear	6.98	1.436	0.44	7.72	12.70	-14	NA	NA	1500

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.44
Total Vo. Purge (L)	15	**Waterlevel (ft.)**	29.2	**Turbidity (NTUs)**	7.72
Start Purge (hrs.)	12:40:00 PM	**Flowrate (mL/min)**	150	**Temp (C)**	12.70
End Purge (hrs.)	2:20:00 PM	**Color**	Clear	**ORP (mV)**	-14
Total Purge Time (min.)	100	**pH (S.U.)**	6.98	**Salinity**	NA
		Conductivity (mS/cm)	1.436	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/6/08	15:00	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-3
✓	5/6/08	15:00	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-3
✓	5/6/08	15:00	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-5
✓	5/6/08	15:00	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	15:00	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-3
✓	5/6/08	15:00	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-5
✓	5/6/08	15:00	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	15:00	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-3
✓	5/6/08	15:00	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-5
✓	5/6/08	15:00	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	15:00	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-3
✓	5/6/08	15:00	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-5
✓	5/6/08	15:00	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-4
✓	5/6/08	15:00	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-3
✓	5/6/08	15:00	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-4
✓	5/6/08	15:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-3
✓	5/6/08	15:00	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3
✓	5/6/08	15:00	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/20/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0207
TtNUS Project #	112G01050	**Well ID**	SL-02
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	44.68	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low Flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	08:35	44.68	75	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/6/08	08:40	44.83	75	Cloudy	7.25	2.50	0.92	40.4	14.12	179	NA	NA	375
5/6/08	08:45	44.96	75	Cloudy	7.84	2.50	0.38	37.5	13.83	18	NA	NA	375
5/6/08	08:51	45.04	75	Clear	8.31	2.51	0.23	19.9	13.72	-112	NA	NA	450
5/6/08	08:55	45.14	75	Clear	8.39	2.51	0.20	14.2	13.71	-124	NA	NA	300
5/6/08	08:59	45.26	75	Clear	8.46	2.51	0.18	8.04	13.43	-138	NA	NA	300
5/6/08	09:09	45.45	75	Clear	8.54	2.51	0.15	5.88	14.21	-148	NA	NA	750
5/6/08	09:22	45.72	75	Clear	8.56	2.51	0.14	3.89	13.13	-156	NA	NA	975

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	09:25	45.72	75	Clear	8.56	2.51	0.13	2.49	13.70	-157	NA	NA	225
5/6/08	09:30	45.82	75	Clear	8.57	2.51	0.12	1.97	13.74	-159	NA	NA	375
5/6/08	09:35	45.92	75	Clear	8.57	2.51	0.11	2.85	13.78	-160	NA	NA	375
5/6/08	09:40	46.00	75	Clear	8.57	2.51	0.10	2.56	13.72	-161	NA	NA	375

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.10
Total Vo. Purge (L)	4.875	**Waterlevel (ft.)**	46.00	**Turbidity (NTUs)**	2.56
Start Purge (hrs.)	9:35:00 AM	**Flowrate (mL/min)**	75	**Temp (C)**	13.72
End Purge (hrs.)	10:40:00 AM	**Color**	Clear	**ORP (mV)**	-161
Total Purge Time (min.)	65	**pH (S.U.)**	8.57	**Salinity**	NA
		Conductivity (mS/cm)	2.51	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/6/08	09:50	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-3
✓	5/6/08	09:50	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	09:50	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-3
✓	5/6/08	09:50	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-3
✓	5/6/08	09:50	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-2
✓	5/6/08	09:50	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	09:50	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	09:50	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-2
✓	5/6/08	09:50	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-3
✓	5/6/08	09:50	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-3
✓	5/6/08	09:50	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-2
✓	5/6/08	09:50	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-3
✓	5/6/08	09:50	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-4
✓	5/6/08	09:50	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-4
✓	5/6/08	09:50	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-2
✓	5/6/08	09:50	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-3
✓	5/6/08	09:50	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3
✗			SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0307
TtNUS Project #	112G01050	**Well ID**	SL-03
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	22.90	**Water Quality Meter**	QD-01610
Purge Method	Low flow - bladder			**Pump Control Box**	QD-1780
Sampling Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Turbidity Meter**	SN-ME-11550
MS/MSD Collected?		**Well Riser Diameter (in.)**	2		
Duplicate Sample Collected?	N	**Well Volumes Req.**	To stabilization		
Corresponding Duplicate Sample ID		**Monitor Reading (ppm)**	NA		

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	08:30	22.90	120	Slightly Turbid	NA	NA	NA	NA	NA	NA	NA	NA	0
5/6/08	08:40	23.10	160	Slightly Turbid	7.36	1.267	6.27	81.2	12.15	-139	NA	NA	1600
5/6/08	08:50	23.10	140	Slightly Turbid	7.50	1.301	4.76	95.4	12.52	-137	NA	NA	1400
5/6/08	09:00	23.10	140	Slightly Turbid	7.54	1.295	3.69	77.9	12.75	-137	NA	NA	1400
5/6/08	09:10	23.10	140	Slightly Turbid	7.54	1.283	2.88	68.0	13.70	-139	NA	NA	1400
5/6/08	09:20	23.10	140	Slightly Turbid	7.56	1.260	2.43	63.5	12.67	-140	NA	NA	1400
5/6/08	09:30	23.10	140	Slightly Turbid	7.56	1.252	1.97	65.8	12.84	-140	NA	NA	1400
5/6/08	09:40	23.10	140	Slightly Turbid	7.56	1.230	1.60	52.5	12.99	-143	NA	NA	1400

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	09:50	23.10	140	Slightly Turbid	7.56	1.215	0.14	47.6	13.16	-144	NA	NA	1400
5/6/08	10:00	23.10	140	Slightly Turbid	7.54	1.208	0.14	36.7	13.37	-145	NA	NA	1400

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.14
Total Vo. Purge (L)	12.8	**Waterlevel (ft.)**	23.10	**Turbidity (NTUs)**	36.7
Start Purge (hrs.)	8:30:00 AM	**Flowrate (mL/min)**	140	**Temp (C)**	13.37
End Purge (hrs.)	10:00:00 AM	**Color**	Slightly Turbid	**ORP (mV)**	-145
Total Purge Time (min.)	90	**pH (S.U.)**	7.54	**Salinity**	NA
		Conductivity (mS/cm)	1.208	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/6/08	10:00	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-2
✓	5/6/08	10:00	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	10:00	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-4
✓	5/6/08	10:00	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-2
✓	5/6/08	10:00	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-3
✓	5/6/08	10:00	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-3
✓	5/6/08	10:00	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-3
✓	5/6/08	10:00	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-2
✓	5/6/08	10:00	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-3
✓	5/6/08	10:00	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-4
✓	5/6/08	10:00	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	10:00	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-2
✓	5/6/08	10:00	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	10:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-3
✓	5/6/08	10:00	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-3
✓	5/6/08	10:00	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-3
✓	5/6/08	10:00	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3
✓	5/6/08	10:00	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/20/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0407
TtNUS Project #	112G01050	**Well ID**	SL-04
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	18.58	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low Flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	Y	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID	NTCFD050508-01				

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/5/08	13:52	18.58	200	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/5/08	14:00	18.68	200	Clear	6.66	1.142	1.87	4.84	11.91	199	NA	NA	1600
5/5/08	14:05	18.68	200	Clear	6.74	1.185	0.62	6.97	11.81	181	NA	NA	1000
5/5/08	14:10	18.67	200	Clear	6.75	1.192	0.42	6.82	11.79	170	NA	NA	1000
5/5/08	14:15	18.63	100	Clear	6.74	1.194	0.40	5.56	12.57	161	NA	NA	500
5/5/08	14:20	18.65	200	Clear	6.72	1.186	0.44	4.13	13.28	151	NA	NA	1000
5/5/08	14:28	6.66	200	Clear	6.75	1.159	0.28	3.00	11.65	123	NA	NA	1600
5/5/08	14:35	6.66	200	Clear	6.76	1.139	0.27	2.5	11.65	104	NA	NA	1400

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/5/08	14:40	18.67	200	Clear	6.76	1.121	0.25	2.83	11.92	89	NA	NA	1000
5/5/08	14:47	18.64	200	Clear	6.78	1.082	0.21	1.99	11.88	75	NA	NA	1400
5/5/08	14:55	18.65	200	Clear	6.80	1.060	0.19	2.14	11.14	65	NA	NA	1600
5/5/08	15:00	18.67	200	Clear	6.80	1.052	0.19	1.25	11.18	61	NA	NA	1000
5/5/08	15:05	18.65	200	Clear	6.81	1.050	0.17	1.13	12.04	57	NA	NA	1000
5/5/08	15:10	18.65	200	Clear	6.81	1.049	0.16	1.61	11.99	55	NA	NA	1000

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.16
Total Vo. Purge (L)	15.1	**Waterlevel (ft.)**	18.65	**Turbidity (NTUs)**	1.61
Start Purge (hrs.)	2:52:00 PM	**Flowrate (mL/min)**	200	**Temp (C)**	11.99
End Purge (hrs.)	4:10:00 PM	**Color**	Clear	**ORP (mV)**	55
Total Purge Time (min.)	78	**pH (S.U.)**	6.81	**Salinity**	NA
		Conductivity (mS/cm)	1.049	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/5/08	15:15	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-2
✓	5/5/08	15:15	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-2
✓	5/5/08	15:15	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-4
✓	5/5/08	15:15	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-1
✓	5/5/08	15:15	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-4
✓	5/5/08	15:15	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-2
✓	5/5/08	15:15	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-2
✓	5/5/08	15:15	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-1
✓	5/5/08	15:15	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-1
✓	5/5/08	15:15	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-1
✓	5/5/08	15:15	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-1
✓	5/5/08	15:15	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-1
✓	5/5/08	15:15	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-1
✓	5/5/08	15:15	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-1
✗			SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Mark Mengel	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/14/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0507
TtNUS Project #	112G01050	**Well ID**	SL-05
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Mark Mengel
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	10.95	**Water Quality Meter**	QD 01610
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	QD 1780
Sampling Method	Low flow - bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 11550
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NA		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/5/08	14:00	10.80	200	Clear	NA	NA	NA	NA	NA	NA	NA	NA	0
5/5/08	14:10	10:95	190	Clear	7.34	2.45	1.31	1.17	10.14	-110	NA	NA	1900
5/5/08	14:20	10.95	120	Clear	7.06	2.47	0.23	3.81	10.66	-130	NA	NA	1200
5/5/08	14:30	10.95	200	Clear	7.01	2.47	0.89	1.00	10.65	-116	NA	NA	2000
5/5/08	14:40	11.00	180	Clear	7.01	2.47	0.21	2.32	10.81	-130	NA	NA	1800
5/5/08	14:50	10.95	180	Clear	7.00	2.46	0.17	2.24	10.42	-134	NA	NA	1800
5/5/08	15:00	10.95	180	Clear	6.98	2.48	0.15	1.60	10.41	-134	NA	NA	1800
5/5/08	15:10	11.00	180	Clear	6.99	2.48	0.13	0.88	10.84	-136	NA	NA	1800

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.13
Total Vo. Purge (L)	12.3	**Waterlevel (ft.)**	11.00	**Turbidity (NTUs)**	0.88
Start Purge (hrs.)	3:00:00 PM	**Flowrate (mL/min)**	180	**Temp (C)**	10.84
End Purge (hrs.)	4:10:00 PM	**Color**	Clear	**ORP (mV)**	-136
Total Purge Time (min.)	70	**pH (S.U.)**	6.99	**Salinity**	NA
		Conductivity (mS/cm)	2.48	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/5/08	13:15	5310C	TOC	4°C/H2SO4	9	Glass - Amber	40ml vials		ED00000074-1
✓	5/5/08	13:15	EPA 1664	HEM Oil & Grease	4°C/H2SO4	5	Glass - Clear	1L		ED00000074-1
✓	5/5/08	15:15	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	3	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-2
✓	5/5/08	15:15	SW-846 8151A	Herbicides	4°C	2	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	SM 3500 CR B	Hexavalent Chromium	4°C	2	Plastic - PE	250ml		ED00000074-2
✓	5/5/08	15:15	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	6	Glass - Amber	60ml vials		ED00000074-4
✓	5/5/08	15:15	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	2	Plastic - PE	500ml		ED00000074-2
✓	5/5/08	15:15	SW-846 9014	Cyanides	4°C/NAOH	2	Plastic - PE (Amber)	500ml		ED00000074-1
✓	5/5/08	15:15	SW-846 8260B	VOCs	4°C/HCL	9	Glass - Clear	40ml vials		ED00000074-1
✓	5/5/08	15:15	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	3	Plastic - PE	1L		ED00000074-1
✓	5/5/08	15:15	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	6	Glass - Amber	1L		ED00000074-4
✓	5/5/08	15:15	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	3	Glass - Amber	1L		ED00000074-1
✓	5/5/08	15:15	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-2
✓	5/5/08	15:15	EPA 420.1	Phenols	4°C/H2SO4	3	Glass - Amber	500ml		ED00000074-1
✓	5/5/08	15:15	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	2	Plastic - PE	500ml		ED00000074-1
✓	5/5/08	15:15	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	3	Plastic - PE	250ml		ED00000074-1
✗			SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Created By	John Wright	**Modified By**	Tim Evans	**Printed By**	Mark Mengel
Created Date	4/30/08	**Modified Date**	5/20/08	**Printed Date**	6/12/08

Project Information

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Facility Name	GREAT LAKES NTC	**Sample ID #**	NTC03GW0607
TtNUS Project #	112G01050	**Well ID**	SL-06
Task/Contract #	CTO 0478	**Well Type**	Monitoring Well
WBS Code #		**Sampled By**	Tim Evans
Status	Complete	**Concentration**	Low concentration

Well and Sample Data

Date		**Static Water Level (ft.)**	14.50	**Water Quality Meter**	QD02962
Purge Method	Low flow - bladder	**Total Well Depth (ft.)**	50	**Pump Control Box**	MP10-2055
Sampling Method	Low flow -bladder	**Well Riser Diameter (in.)**	2	**Turbidity Meter**	SN-ME 13540
MS/MSD Collected?		**Well Volumes Req.**	To stabilization		
Duplicate Sample Collected?	N	**Monitor Reading (ppm)**	NM		
Corresponding Duplicate Sample ID					

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	12:57	14.50	200	Highly Turbid	NA	NA	NA	NA	NA	NA	NA	NA	0
5/6/08	13:04	14.50	200	Highly Turbid	7.64	1.287	0.80	>5552	11.17	-48	NA	NA	1400
5/6/08	13:13	13.90	200	Highly Turbid	7.21	1.300	0.23	>5552	11.43	-52	NA	NA	1800
5/6/08	13:23	13.60	150	Highly Turbid	7.02	1.299	0.15	>5552	11.47	-50	NA	NA	1500
5/6/08	13:32	13.40	150	Highly Turbid	6.94	1.289	1.04	3644	11.22	-37	NA	NA	1350
5/6/08	13:40	13.40	150	Slightly Turbid	6.92	1.289	0.27	1010	11.03	-40	NA	NA	1200
5/6/08	13:49	13.45	150	Cloudy	6.94	1.302	1.46	278	11.12	-45	NA	NA	1350
5/6/08	13:55	13.50	150	Cloudy	6.91	1.301	0.26	311	11.10	-46	NA	NA	900

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
5/6/08	14:00	13.50	150	Cloudy	6.91	1.300	0.19	277	11.09	-48	NA	NA	750
5/6/08	14:10	13.51	150	Cloudy	6.87	1.299	0.14	230	11.35	-51	NA	NA	1500
5/6/08	14:20	13.60	150	Cloudy	6.88	1.300	0.12	183	11.62	-58	NA	NA	1500
5/6/08	14:25	13.65	150	Cloudy	6.91	1.305	0.11	263	11.59	-55	NA	NA	750
5/6/08	14:30	13.65	150	Clear	6.93	1.301	0.11	180	11.82	-57	NA	NA	750

Final Purge / Sample Data

One Casing Volume		**Method**	Low flow - bladder	**Dissolved Oxygen (mg/L)**	0.11
Total Vo. Purge (L)	14.75	**Waterlevel (ft.)**	13.65	**Turbidity (NTUs)**	180
Start Purge (hrs.)	1:57:00 PM	**Flowrate (mL/min)**	150	**Temp (C)**	11.82
End Purge (hrs.)	3:30:00 PM	**Color**	Clear	**ORP (mV)**	-57
Total Purge Time (min.)	93	**pH (S.U.)**	6.93	**Salinity**	NA
		Conductivity (mS/cm)	1.301	**Other**	NA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG

Long-Term Groundwater Monitoring - GREAT LAKES NTC

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	5/6/08	14:30	SW-846 8151A	Herbicides	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	14:30	SW-846 8141	N/P Pesticides	4° C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials		ED00000074-4
✓	5/6/08	14:30	10-107-04-1/354	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-5
✓	5/6/08	14:30	5310C	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		ED00000074-3
✓	5/6/08	14:30	SW-846 8270C/8270C SIM	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	14:30	SW-846 9014	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		ED00000074-3
✓	5/6/08	14:30	SW-846 8260B	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		ED00000074-3
✓	5/6/08	14:30	SW-846 531.1	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L		ED00000074-4
✓	5/6/08	14:30	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		ED00000074-3
✓	5/6/08	14:30	EPA 420.1	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		ED00000074-3
✓	5/6/08	14:30	SM 5210B	BOD	4°C	1	Plastic - PE	1L		ED00000074-5
✓	5/6/08	14:30	4500-NH3-G/4500-P-F,5220 D	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		ED00000074-3
✓	5/6/08	14:30	EPA 1664	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		ED00000074-3
✓	5/6/08	14:30	SM 3500 CR B	Hexavalent Chromium	4°C	1	Plastic - PE	250ml		ED00000074-5
✓	5/6/08	14:30	SM 9222 D	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml		ED00000074-5
✓	5/6/08	14:30	SW-846 8081A / 8082	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		ED00000074-3
✓	5/6/08	14:30	SW-846 6010B / 7841 / 7470A	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3
✓	5/6/08	14:30	SW-846 6010B / 7841 / 7470A	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		ED00000074-3

A.3

CHAIN-OF-CUSTODY RECORDS

TETRA TECH NUS, INC

E-0805103 Cont 4 405R

CHAIN OF CUSTODY
NUMBER: ED00000074-1

49-10

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Federal Express	TriMatrix Laboratories, Inc. 5560 Corproate Exchange Court SE Grand Rapids, MI 49512-5503
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Standard	Tim Evans	863125264812	Gary Wood 616-940-4206

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Recs	Comments	
	05/05/2008	NTC03GW0407	15:15	SW-846 8081A / 8082	SL-04	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		05
	05/05/2008	NTC03GW0407	15:15	SW-846 8270C/8270C SIM	SL-04	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
	05/05/2008	NTC03GW0407	15:15	EPA 1664	SL-04	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
	05/05/2008	NTC03GW0407	15:15	SW-846 8151A	SL-04	GW	Herbicides	4°C	1	Glass - Amber	1L		
01	05/05/2008	NTC03GW0407	15:15	SW-846 6010B / 7841 / 7470A	SL-04	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
	05/05/2008	NTC03GW0407	15:15	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	SL-04	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		
	05/05/2008	NTC03GW0407	15:15	4500-NH3-G/4500-P-F,5220 D	SL-04	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		
	05/05/2008	NTC03GW0407	15:15	5310C	SL-04	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
	05/05/2008	NTC03GW0407	15:15	SW-846 8260B	SL-04	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		
	05/05/2008	NTC03GW0407	15:15	EPA 420.1	SL-04	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		
	05/05/2008	NTC03GW0407	15:15	SW-846 9014	SL-04	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
	05/05/2008	NTC03GW0507	13:15	5310C	SL-05	GW	TOC	4°C/H2SO4	9	Glass - Amber	40ml vials	RUN MS/MSD	03
	05/05/2008	NTC03GW0507	13:15	EPA 1664	SL-05	GW	HEM Oil & Grease	4°C/H2SO4	5	Glass - Clear	1L	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	SW-846 6010B / 7841 / 7470A	SL-05	GW	TAL Metals	4°C/HNO3	3	Plastic - PE	250ml	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	SW-846 8270C/8270C SIM	SL-05	GW	SVOCs (PAHs via SIM)	4°C	3	Glass - Amber	1L	RUN MS/MSD	
02	05/05/2008	NTC03GW0507	15:15	SW-846 8151A	SL-05	GW	Herbicides	4°C	2	Glass - Amber	1L		
	05/05/2008	NTC03GW0507	15:15	SW-846 9014	SL-05	GW	Cyanides	4°C/NAOH	2	Plastic - PE (Amber)	500ml	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	SW-846 8260B	SL-05	GW	VOCs	4°C/HCL	9	Glass - Clear	40ml vials	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	SL-05	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	3	Plastic - PE	1L	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	SW-846 8081A / 8082	SL-05	GW	Chlorinated Pesticides / PCBs	4°C	3	Glass - Amber	1L	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	EPA 420.1	SL-05	GW	Phenols	4°C/H2SO4	3	Glass - Amber	500ml	RUN MS/MSD	
	05/05/2008	NTC03GW0507	15:15	4500-NH3-G/4500-P-F,5220 D	SL-05	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	2	Plastic - PE	500ml	RUN MS/MSD	
	05/05/2008	NTCFD050508-01	00:00	SW-846 8081A / 8082	QC	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		06
	05/05/2008	NTCFD050508-01	00:00	SW-846 8270C/8270C SIM	QC	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
03	05/05/2008	NTCFD050508-01	00:00	EPA 1664	QC	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
	05/05/2008	NTCFD050508-01	00:00	SW-846 8151A	QC	GW	Herbicides	4°C	1	Glass - Amber	1L		
	05/05/2008	NTCFD050508-01	00:00	SW-846 6010B / 7841 / 7470A	QC	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
	05/05/2008	NTCFD050508-01	00:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	QC	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		

05/05/2008	NTCFD050508-01	00:00	4500-NH3-G/4500-P-F,8220 D	QC	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
05/05/2008	NTCFD050508-01	00:00	5310C	QC	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
05/05/2008	NTCFD050508-01	00:00	SW-846 8260B	QC	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
05/05/2008	NTCFD050508-01	00:00	EPA 420.1	QC	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	
05/05/2008	NTCFD050508-01	00:00	SW-846 9014	QC	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	

1. Relinquished By: Tim Evans	Date: 05/05/2008	Time: 20:00	Received By: Federal Express	Date: 05/05/2008	Time: 20:00
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date: 5-6-08	Time: 1000

Comments:

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-3

Cart 7 679w 1.10

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Federal Express	TriMatrix Laboratories, Inc. 5560 Corproate Exchange Court SE Grand Rapids, MI 49512-5503
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTD 0478	Standard	Tim Evans	863125264823	Gary Wood 616-940-4206

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
	05/06/2008	NTC03GW0107	15:00	EPA 420.1	SL-01	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	01
	05/06/2008	NTC03GW0107	15:00	5310C	SL-01	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
	05/06/2008	NTC03GW0107	15:00	SW-846 8270C/8270C SIM	SL-01	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
	05/06/2008	NTC03GW0107	15:00	SW-846 8260B	SL-01	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
01	05/06/2008	NTC03GW0107	15:00	SW-846 8081A / 8082	SL-01	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	
	05/06/2008	NTC03GW0107	15:00	4500-NH3-G/4500-P-F,5220 D	SL-01	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
	05/06/2008	NTC03GW0107	15:00	SW-846 8151A	SL-01	GW	Herbicides	4°C	1	Glass - Amber	1L	
	05/06/2008	NTC03GW0107	15:00	SW-846 9014	SL-01	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
	05/06/2008	NTC03GW0107	15:00	EPA 1664	SL-01	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
	05/06/2008	NTC03GW0107	15:00	SW-846 6010B / 7841 / 7470A	SL-01	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	
	05/06/2008	NTC03GW0107	15:00	SW-846 6010B / 7841 / 7470A	SL-01	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml	
	05/06/2008	NTC03GW0107	15:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 160.1	SL-01	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
	05/06/2008	NTC03GW0207	09:50	SW-846 6010B / 7841 / 7470A	SL-02	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	05
	05/06/2008	NTC03GW0207	09:50	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 160.1	SL-02	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
	05/06/2008	NTC03GW0207	09:50	SW-846 8081A / 8082	SL-02	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	
02	05/06/2008	NTC03GW0207	09:50	SW-846 8260B	SL-02	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
	05/06/2008	NTC03GW0207	09:50	EPA 420.1	SL-02	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	
	05/06/2008	NTC03GW0207	09:50	SW-846 8151A	SL-02	GW	Herbicides	4°C	1	Glass - Amber	1L	
	05/06/2008	NTC03GW0207	09:50	SW-846 8270C/8270C SIM	SL-02	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
	05/06/2008	NTC03GW0207	09:50	SW-846 9014	SL-02	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
	05/06/2008	NTC03GW0207	09:50	5310C	SL-02	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
	05/06/2008	NTC03GW0207	09:50	EPA 1664	SL-02	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
	05/06/2008	NTC03GW0207	09:50	4500-NH3-G/4500-P-F,5220 D	SL-02	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
	05/06/2008	NTC03GW0307	10:00	SW-846 8151A	SL-03	GW	Herbicides	4°C	1	Glass - Amber	1L	01
03	05/06/2008	NTC03GW0307	10:00	EPA 1664	SL-03	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
	05/06/2008	NTC03GW0307	10:00	4500-NH3-G/4500-P-F,5220 D	SL-03	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
	05/06/2008	NTC03GW0307	10:00	SW-846 8260B	SL-03	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	

05/06/2008	NTC03GW0307	10:00	SW-846 6010B / 7041 / 7470A	SL-03	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0307	10:00	EPA 420.1	SL-03	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	
05/06/2008	NTC03GW0307	10:00	SW-846 6010B / 7041 / 7470A	SL-03	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0307	10:00	SW-846 8270C/8270C SIM	SL-03	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
05/06/2008	NTC03GW0307	10:00	SW-846 8081A / 8082	SL-03	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	
05/06/2008	NTC03GW0307	10:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	SL-03	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0307	10:00	SW-846 9014	SL-03	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
05/06/2008	NTC03GW0307	10:00	5310C	SL-03	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
05/06/2008	NTC03GW0607	14:30	SW-846 6010B / 7041 / 7470A	SL-06	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0607	14:30	SW-846 8151A	SL-06	GW	Herbicides	4°C	1	Glass - Amber	1L	
05/06/2008	NTC03GW0607	14:30	5310C	SL-06	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
05/06/2008	NTC03GW0607	14:30	SW-846 8270C/8270C SIM	SL-06	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
05/06/2008	NTC03GW0607	14:30	SW-846 9014	SL-06	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
05/06/2008	NTC03GW0607	14:30	SW-846 8260B	SL-06	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
05/06/2008	NTC03GW0607	14:30	SW-846 6010B / 7041 / 7470A	SL-06	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0607	14:30	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	SL-06	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0607	14:30	EPA 420.1	SL-06	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	
05/06/2008	NTC03GW0607	14:30	4500-NH3-G/4500-P-F,5220 D	SL-06	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
05/06/2008	NTC03GW0607	14:30	EPA 1664	SL-06	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
05/06/2008	NTC03GW0607	14:30	SW-846 8081A / 8082	SL-06	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	

01

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Tim Evans	05/06/2008	17:45	Federal Express	05/06/2008	17:45
2. Relinquished By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
3. Relinquished By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
				5-7-08	1015

Comments:

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-6

Cart 2 152B 08051165 3.12

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Federal Express	TriMatrix Laboratories, Inc. 5560 Corporate Exchange Court SE Grand Rapids, MI 49512-5503
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Standard	Tim Evans	863125264834	Gary Wood 616-940-4206

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Size	Comments
05/07/2008	NTC02GW0107	10:55	EPA 420.1	FL-01	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	05
05/07/2008	NTC02GW0107	10:55	SW-846 8260B	FL-01	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
05/07/2008	NTC02GW0107	10:55	4500-NH3-G/4500-P-F,5220 D	FL-01	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	
05/07/2008	NTC02GW0107	10:55	SW-846 6010B / 7841 / 7470A	FL-01	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0107	10:55	SW-846 9014	FL-01	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
05/07/2008	NTC02GW0107	10:55	EPA 1664	FL-01	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
05/07/2008	NTC02GW0107	10:55	SW-846 8151A	FL-01	GW	Herbicides	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0107	10:55	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-01	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0107	10:55	5310C	FL-01	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
05/07/2008	NTC02GW0107	10:55	SW-846 8270C/8270C SIM	FL-01	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0107	10:55	SW-846 8081A / 8082	FL-01	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0407	14:55	4500-NH3-G/4500-P-F,5220 D	FL-04	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml	05
05/07/2008	NTC02GW0407	14:55	SW-846 8081A / 8082	FL-04	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0407	14:55	SW-846 6010B / 7841 / 7470A	FL-04	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0407	14:55	5310C	FL-04	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials	
05/07/2008	NTC02GW0407	14:55	SW-846 8270C/8270C SIM	FL-04	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0407	14:55	EPA 420.1	FL-04	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	
05/07/2008	NTC02GW0407	14:55	SW-846 9014	FL-04	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml	
05/07/2008	NTC02GW0407	14:55	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-04	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0407	14:55	SW-846 8260B	FL-04	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	
05/07/2008	NTC02GW0407	14:55	SW-846 8151A	FL-04	GW	Herbicides	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0407	14:55	EPA 1664	FL-04	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L	
05/07/2008	NTC02GW0507	11:00	SW-846 8260B	FL-05	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials	01
05/07/2008	NTC02GW0507	11:00	SW-846 8270C/8270C SIM	FL-05	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L	
05/07/2008	NTC02GW0507	11:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-05	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0507	11:00	EPA 420.1	FL-05	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml	

01

02

03

05/07/2008	NTC02GW0507	11:00	SW-846 8151A	FL-05	GW	Herbicides	4°C	1	Glass - Amber	1L		
05/07/2008	NTC02GW0507	11:00	EPA 1664	FL-05	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
05/07/2008	NTC02GW0507	11:00	SW-846 6010B / 7841 / 7470A	FL-05	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
05/07/2008	NTC02GW0507	11:00	4500-NH3-G/4500-P-F,5220 D	FL-05	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		
05/07/2008	NTC02GW0507	11:00	SW-846 6010B / 7841 / 7470A	FL-05	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		
05/07/2008	NTC02GW0507	11:00	SW-846 9014	FL-05	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
05/07/2008	NTC02GW0507	11:00	5310C	FL-05	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
05/07/2008	NTC02GW0507	11:00	SW-846 8081A / 8082	FL-05	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		
05/07/2008	NTC02GW0607	15:00	EPA 420.1	FL-06	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		01
05/07/2008	NTC02GW0607	15:00	5310C	FL-06	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
05/07/2008	NTC02GW0607	15:00	SW-846 6010B / 7841 / 7470A	FL-06	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		
05/07/2008	NTC02GW0607	15:00	SW-846 8081A / 8082	FL-06	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		
05/07/2008	NTC02GW0607	15:00	SW-846 9014	FL-06	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
05/07/2008	NTC02GW0607	15:00	SW-846 8151A	FL-06	GW	Herbicides	4°C	1	Glass - Amber	1L		
05/07/2008	NTC02GW0607	15:00	SW-846 8260B	FL-06	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		
05/07/2008	NTC02GW0607	15:00	SW-846 8270C/8270C SIM	FL-06	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
05/07/2008	NTC02GW0607	15:00	EPA 1664	FL-06	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
05/07/2008	NTC02GW0607	15:00	4500-NH3-G/4500-P-F,5220 D	FL-06	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		
05/07/2008	NTC02GW0607	15:00	SW-846 6010B / 7841 / 7470A	FL-06	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
05/07/2008	NTC02GW0607	15:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-06	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		
05/07/2008	NTCFD050708-01	00:00	4500-NH3-G/4500-P-F,5220 D	QC	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		06
05/07/2008	NTCFD050708-01	00:00	SW-846 8081A / 8082	QC	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		
05/07/2008	NTCFD050708-01	00:00	SW-846 6010B / 7841 / 7470A	QC	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
05/07/2008	NTCFD050708-01	00:00	5310C	QC	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
05/07/2008	NTCFD050708-01	00:00	SW-846 8270C/8270C SIM	QC	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
05/07/2008	NTCFD050708-01	00:00	EPA 420.1	QC	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		
05/07/2008	NTCFD050708-01	00:00	SW-846 9014	QC	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
05/07/2008	NTCFD050708-01	00:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	QC	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		
05/07/2008	NTCFD050708-01	00:00	SW-846 8260B	QC	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		
05/07/2008	NTCFD050708-01	00:00	SW-846 8151A	QC	GW	Herbicides	4°C	1	Glass - Amber	1L		
05/07/2008	NTCFD050708-01	00:00	EPA 1664	QC	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
05/07/2008	NTCTB050708-01	08:00	SW-846 8260B	QC	AQ	VOCs	4°C/HCL	1	Glass - Clear	40ml vials		04

1. Relinquished By: Tim Evans	Date: 05/07/2008	Time: 18:00	Received By: Federal Express	Date: 05/07/2008	Time: 18:00
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date: 5-8-08	Time: 10:00

Comments:

TETRA TECH NUS, INC

E 0805207 (63) G

CHAIN OF CUSTODY
NUMBER: ED00000074-9

5-11 Inorganic Cart

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Federal Express	TriMatrix Laboratories, Inc. 5560 Corproate Exchange Court SE Grand Rapids, MI 49512-5503
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Standard	Tim Evans	863125264845	Gary Wood 616-940-4206

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Size	Comments	
	05/06/2008	NTC02GW0207	09:40	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-02	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		01
	05/06/2008	NTC02GW0207	09:40	SW-846 6010B / 7841 / 7470A	FL-02	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
	05/06/2008	NTC02GW0207	09:40	EPA 1664	FL-02	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		
	05/06/2008	NTC02GW0207	09:40	4500-NH3-G/4500-P-F,5220 D	FL-02	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		
	05/06/2008	NTC02GW0207	09:40	SW-846 8151A	FL-02	GW	Herbicides	4°C	1	Glass - Amber	1L		
	05/06/2008	NTC02GW0207	09:40	SW-846 8270C/8270C SIM	FL-02	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
01	05/06/2008	NTC02GW0207	09:40	SW-846 8260B	FL-02	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		
	05/06/2008	NTC02GW0207	09:40	5310C	FL-02	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
	05/06/2008	NTC02GW0207	09:40	SW-846 9014	FL-02	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
	05/06/2008	NTC02GW0207	09:40	SW-846 6010B / 7841 / 7470A	FL-02	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		
	05/06/2008	NTC02GW0207	09:40	EPA 420.1	FL-02	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		
	05/06/2008	NTC02GW0207	09:40	SW-846 8081A / 8082	FL-02	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		
	05/06/2008	NTC02GW0307	10:00	EPA 1664	FL-03	GW	HEM Oil & Grease	4°C/H2SO4	2	Glass - Clear	1L		01
	05/06/2008	NTC02GW0307	10:00	SW-846 8260B	FL-03	GW	VOCs	4°C/HCL	3	Glass - Clear	40ml vials		
	05/06/2008	NTC02GW0307	10:00	EPA 420.1	FL-03	GW	Phenols	4°C/H2SO4	1	Glass - Amber	500ml		
02	05/06/2008	NTC02GW0307	10:00	SW-846 6010B / 7841 / 7470A	FL-03	GW	TAL Metals (Dissolved)	4°C/HNO3	1	Plastic - PE	250ml		
	05/06/2008	NTC02GW0307	10:00	SW-846 6010B / 7841 / 7470A	FL-03	GW	TAL Metals	4°C/HNO3	1	Plastic - PE	250ml		
	05/06/2008	NTC02GW0307	10:00	EPA 300/EPA 300/EPA 300/2540 C/2540 D/EPA 150.1	FL-03	GW	General (Cl-, F-, SO4, TDS, TSS, pH)	4°C	1	Plastic - PE	1L		
	05/06/2008	NTC02GW0307	10:00	SW-846 8151A	FL-03	GW	Herbicides	4°C	1	Glass - Amber	1L		
	05/06/2008	NTC02GW0307	10:00	SW-846 8081A / 8082	FL-03	GW	Chlorinated Pesticides / PCBs	4°C	1	Glass - Amber	1L		
	05/06/2008	NTC02GW0307	10:00	5310C	FL-03	GW	TOC	4°C/H2SO4	3	Glass - Amber	40ml vials		
	05/06/2008	NTC02GW0307	10:00	4500-NH3-G/4500-P-F,5220 D	FL-03	GW	Nutrients (Ammonia, P, COD)	4°C/H2SO4	1	Plastic - PE	500ml		
	05/06/2008	NTC02GW0307	10:00	SW-846 8270C/8270C SIM	FL-03	GW	SVOCs (PAHs via SIM)	4°C	1	Glass - Amber	1L		
	05/06/2008	NTC02GW0307	10:00	SW-846 9014	FL-03	GW	Cyanides	4°C/NAOH	1	Plastic - PE (Amber)	500ml		
03	05/06/2008	NTCTB050608-01	08:00	SW-846 8260B	QC	AQ	VOCs	4°C/HCL	1	Glass - Clear	40ml vials		04

1. Relinquished By: Tim Evans	Date: 05/08/2008	Time: 18:00	Received By: Federal Express	Date: 05/08/2008	Time: 18:00
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date: 5-9-08	Time: 10:00

Comments:

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-4

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	**GREAT LAKES NTC**	**Bob Davis**	**Federal Express**	**TestAmerica Savannah** **5102 LaRoche Ave** **Savannah, GA 31404**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0478	**Standard**	**Tim Evans**	**863125264867**	**Sample Receiving** **912-354-7858**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
05/05/2008	NTC03GW0407	15:15	SW-846 531.1	SL-04	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/05/2008	NTC03GW0407	15:15	SW-846 8141	SL-04	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/05/2008	NTC03GW0507	15:15	SW-846 8141	SL-05	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	6	Glass - Amber	60ml vials	RUN MS/MSD
05/05/2008	NTC03GW0507	15:15	SW-846 531.1	SL-05	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	6	Glass - Amber	1L	RUN MS/MSD
05/05/2008	NTCFD050508-01	00:00	SW-846 531.1	QC	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/05/2008	NTCFD050508-01	00:00	SW-846 8141	QC	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/06/2008	NTC03GW0107	15:00	SW-846 531.1	SL-01	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/06/2008	NTC03GW0107	15:00	SW-846 8141	SL-01	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/06/2008	NTC03GW0207	09:50	SW-846 8141	SL-02	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/06/2008	NTC03GW0207	09:50	SW-846 531.1	SL-02	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/06/2008	NTC03GW0307	10:00	SW-846 531.1	SL-03	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/06/2008	NTC03GW0307	10:00	SW-846 8141	SL-03	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/06/2008	NTC03GW0607	14:30	SW-846 8141	SL-06	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/06/2008	NTC03GW0607	14:30	SW-846 531.1	SL-06	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	

	Date:	Time:		Date:	Time:
1. Relinquished By: **Tim Evans**	05/06/2008	17:45	Received By: **Federal Express**	05/06/2008	17:45
2. Relinquished By:	Date:	Time:	Received By: [signature]	Date: 050708	Time: 1233
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

TEMP: 0.8/0.6

680-36506

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-8

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	**GREAT LAKES NTC**	**Bob Davis**	**Federal Express**	**TestAmerica Savannah 5102 LaRoche Ave Savannah, GA 31404**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
CTO 0478	**Standard**	**Tim Evans**	**863125264856**	**Sample Receiving 912-354-7858**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
05/07/2008	NTC02GW0107	10:55	SW-846 8141	FL-01	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/07/2008	NTC02GW0107	10:55	SW-846 531.1	FL-01	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/07/2008	NTC02GW0407	14:55	SW-846 8141	FL-04	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/07/2008	NTC02GW0407	14:55	SW-846 531.1	FL-04	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/07/2008	NTC02GW0507	11:00	SW-846 531.1	FL-05	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/07/2008	NTC02GW0507	11:00	SW-846 8141	FL-05	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/07/2008	NTC02GW0607	15:00	SW-846 531.1	FL-06	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/07/2008	NTC02GW0607	15:00	SW-846 8141	FL-06	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/07/2008	NTCFD050708-01	00:00	SW-846 8141	QC	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/07/2008	NTCFD050708-01	00:00	SW-846 531.1	QC	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/08/2008	NTC02GW0207	09:40	SW-846 8141	FL-02	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/08/2008	NTC02GW0207	09:40	SW-846 531.1	FL-02	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	
05/08/2008	NTC02GW0307	10:00	SW-846 8141	FL-03	GW	N/P Pesticides	4°C/MCAA/Thiosulfate	2	Glass - Amber	60ml vials	
05/08/2008	NTC02GW0307	10:00	SW-846 531.1	FL-03	GW	Carbamate Pesticides	4°C/NA2SO3 w/HCL	2	Glass - Amber	1L	

680 36606
TEMP.: 3.4/2.5

1. Relinquished By: **Tim Evans**	Date: 05/08/2008	Time: 18:00	Received By: **Federal Express**	Date: 05/08/2008	Time: 18:00
2. Relinquished By:	Date:	Time:	Received By:	Date: 0509080929	Time:
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Lab Pick-Up	TestAmerica 2417 Bond Street University Park, IL 60466
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Standard	Tim Evans		Marilyn Krueding 708-534-5200

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
05/05/2008	NTC03GW0407	15:15	SM 5210B	SL-04	GW	BOD	4°C	1	Plastic - PE	1L	
05/05/2008	NTC03GW0407	15:15	10-107-04-1/354	SL-04	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/05/2008	NTC03GW0407	15:15	SM 3500 CR B	SL-04	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/05/2008	NTC03GW0407	15:15	SM 9222 D	SL-04	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/05/2008	NTC03GW0507	15:15	SM 5210B	SL-05	GW	BOD	4°C	1	Plastic - PE	1L	RUN MS/MSD
05/05/2008	NTC03GW0507	15:15	SM 3500 CR B	SL-05	GW	Hexavalent Chromium	4°C	2	Plastic - PE	250ml	RUN MS/MSD
05/05/2008	NTC03GW0507	15:15	10-107-04-1/354	SL-05	GW	Nitrate-Nitrite	4°C/H2SO4	2	Plastic - PE	500ml	RUN MS/MSD
05/05/2008	NTC03GW0507	15:15	SM 9222 D	SL-05	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/05/2008	NTCFD050508-01	00:00	SM 5210B	QC	GW	BOD	4°C	1	Plastic - PE	1L	
05/05/2008	NTCFD050508-01	00:00	10-107-04-1/354	QC	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/05/2008	NTCFD050508-01	00:00	SM 3500 CR B	QC	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/05/2008	NTCFD050508-01	00:00	SM 9222 D	QC	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/06/2008	NTC03GW0207	09:50	10-107-04-1/354	SL-02	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/06/2008	NTC03GW0207	09:50	SM 5210B	SL-02	GW	BOD	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0207	09:50	SM 3500 CR B	SL-02	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0207	09:50	SM 9222 D	SL-02	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/06/2008	NTC03GW0307	10:00	SM 9222 D	SL-03	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/06/2008	NTC03GW0307	10:00	SM 3500 CR B	SL-03	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0307	10:00	SM 5210B	SL-03	GW	BOD	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0307	10:00	10-107-04-1/354	SL-03	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	

	Date:	Time:		Date:	Time:
1. Relinquished By: [signature]	5/6/08	1220	Received By: Lab Pick-Up	5-6-08	1200
2. Relinquished By:			Received By: [signature]	5/6/08	1:10
3. Relinquished By:			Received By:		

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-5

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Lab Pick-Up	TestAmerica 2417 Bond Street University Park, IL 60466
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Standard	Tim Evans		Marilyn Kreeding 708-534-5200

Date	Sample ID #	Time	Analyte	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Size	Comments
05/06/2008	NTC03GW0107	15:00	SM 5210B	SL-01	GW	BOD	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0107	15:00	SM 9222 D	SL-01	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/06/2008	NTC03GW0107	15:00	10-107-04-1/354	SL-01	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/06/2008	NTC03GW0107	15:00	SM 3500 CR B	SL-01	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0607	14:30	10-107-04-1/354	SL-06	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/06/2008	NTC03GW0607	14:30	SM 5210B	SL-06	GW	BOD	4°C	1	Plastic - PE	1L	
05/06/2008	NTC03GW0607	14:30	SM 3500 CR B	SL-06	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/06/2008	NTC03GW0607	14:30	SM 9222 D	SL-06	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTC02GW0107	10:55	SM 9222 D	FL-01	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTC02GW0107	10:55	10-107-04-1/354	FL-01	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/07/2008	NTC02GW0107	10:55	SM 3500 CR B	FL-01	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0107	10:55	SM 5210B	FL-01	GW	BOD	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0507	11:00	SM 5210B	FL-05	GW	BOD	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0507	11:00	SM 3500 CR B	FL-05	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0507	11:00	SM 9222 D	FL-05	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTC02GW0507	11:00	10-107-04-1/354	FL-05	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Mark Mangel	05/07/2008	12:00	Lab Pick-Up	05/07/2008	12:00
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[illegible]	5/7/08	1220	[illegible]	5-7-08	1220
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[illegible]	5-7-08	1253	[illegible]	5/7/08	12:53

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000074-7

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01050	GREAT LAKES NTC	Bob Davis	Lab Pick-Up	TestAmerica 2417 Bond Street University Park, IL 60466
Task No:	**Turn Around Time:**	**Field Ops Leader:**	**Carrier/Waybill No.**	**Point of Contact:**
CTO 0478	Rush	Tim Evans		Marilyn Krueding 708-534-5200

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Size	Comments
05/07/2008	NTC02GW0407	14:55	10-107-04-1/354	FL-04	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/07/2008	NTC02GW0407	14:55	SM 3500 CR B	FL-04	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0407	14:55	SM 9222 D	FL-04	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTC02GW0407	14:55	SM 5210B	FL-04	GW	BOD	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0607	15:00	SM 5210B	FL-06	GW	BOD	4°C	1	Plastic - PE	1L	
05/07/2008	NTC02GW0607	15:00	SM 9222 D	FL-06	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTC02GW0607	15:00	SM 3500 CR B	FL-06	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/07/2008	NTC02GW0607	15:00	10-107-04-1/354	FL-06	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/07/2008	NTCFD050708-01	00:00	10-107-04-1/354	QC	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/07/2008	NTCFD050708-01	00:00	SM 3500 CR B	QC	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/07/2008	NTCFD050708-01	00:00	SM 9222 D	QC	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/07/2008	NTCFD050708-01	00:00	SM 5210B	QC	GW	BOD	4°C	1	Plastic - PE	1L	
05/08/2008	NTC02GW0207	09:40	10-107-04-1/354	FL-02	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	
05/08/2008	NTC02GW0207	09:40	SM 3500 CR B	FL-02	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/08/2008	NTC02GW0207	09:40	SM 5210B	FL-02	GW	BOD	4°C	1	Plastic - PE	1L	
05/08/2008	NTC02GW0207	09:40	SM 9222 D	FL-02	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/08/2008	NTC02GW0307	10:00	SM 5210B	FL-03	GW	BOD	4°C	1	Plastic - PE	1L	
05/08/2008	NTC02GW0307	10:00	SM 3500 CR B	FL-03	GW	Hexavalent Chromium	4°C	1	Plastic - PE	250ml	
05/08/2008	NTC02GW0307	10:00	SM 9222 D	FL-03	GW	Fecal Coliform	4°C/NA2S2O3	1	Plastic - PE	125ml	
05/08/2008	NTC02GW0307	10:00	10-107-04-1/354	FL-03	GW	Nitrate-Nitrite	4°C/H2SO4	1	Plastic - PE	500ml	

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Mark Mengel	05/08/2008	12:15	Lab Pick-Up	05/08/2008	12:15
2. Relinquished By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
Mark Mengel	5/8/08	1215	[illegible]	5-8-08	1200

APPENDIX B

INVESTIGATION-DERIVED WASTE DISPOSAL PROFILE AND MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IL7170024577
2. Page 1 of: 1
3. Emergency Response Phone: 847-688-4820
4. Manifest Tracking Number: 003899262 JJK

GENERATOR

5. Generator's Name and Mailing Address
Naval Stations Great Lakes
201 Decatur Ave. Building#221
Great Lakes, Illinois 60088 (847)688-6934

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: SI-Tech — U.S. EPA ID Number: ILR000055319

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Industrial Water Services, Inc
12123 South Stony Island Ave
Chicago, Illinois 773-646-9700

U.S. EPA ID Number: ILR 000115287

Facility's Phone:

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON HAZARDOUS LIQUIDS PURGED WATER	001	DM	055	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

#12253

Profile# 028473 Job# 112G00936 Subcontract No. 1028703
COD Required within 30 days.
P.O.C. Mr. Mark S Hoyer

G=Gallons

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark S Hoyer — Signature: Mark S Hoyer — Month Day Year: 05 20 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: M.J. Sylcera — Signature — Month Day Year: 05 20 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Anthony Heredy — Signature — Month Day Year: 05 29 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

INDUSTRIAL WATER SERVICES

Corporate Office
1010 East Adams St. • Jacksonville, FL 32202
P.O. Box 43369 • Jacksonville, FL 32203
Phone: (904) 354-0372 • (800) 447-3592
Fax: (904) 350-1313 • www.iwsww.com

CERTIFICATE OF COMPLIANCE AND DISPOSAL

Generator:: Naval Stations Great Lakes
Site Location: Great Lakes, Illinois
Manifest Number: 003899262JJK

This certifies that on the 29TH of May 2008 1 drum 55 gallons of Non Hazardous Purged Water was disposed of and/or recycled incompliance with all applicable federal, state and local regulations.

Facility Name:	Industrial Water Services, Inc.
Facility Address:	12123 S. Stony Island Avenue
US EPA ID#:	ILR 000 115 287
IL EPA Operating Permit#	1994-552-OP
City Of Chicago Operating Permit #	002-LW-2004
Metropolitan Water Reclamation District of Greater Chicago Discharge Authorization#	25416-3.2

Certified By: Michelle Richardson

Signature:

Date: May 29, 2008

12123 South Stony Island Avenue
Chicago, IL 60633
(773) 646-9700
Fax: (773) 646-9730

1640 Talleyrand Avenue
Jacksonville, FL 32206
(904) 354-0372
Fax: (904) 353-4033

1980 Avenue "A"
Mobile, AL 36615
(251) 694-7500
Fax: (251) 694-7508

APPENDIX C

SUMMARY OF ANALYTICAL RESULTS FOR QUARTERLY GROUNDWATER MONITORING (ROUND 7)

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	FL-01	FL-02	FL-03	FL-04	FL-04	FL-05	FL-06
SAMPLE ID	NTC02GW0107	NTC02GW0207	NTC02GW0307	NTC02GW0407	NTC02GW0407-D	NTC02GW0507	NTC02GW0607
SAMPLE DATE	05/07/2008	05/08/2008	05/08/2008	05/07/2008	05/07/2008	05/07/2008	05/07/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC02GW0407		
VOLATILE ORGANIC COMPOUNDS (UG/L)							
1,1,1,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROTRIFLUOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPENE							
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROETHYL VINYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-ISOPROPYLTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UJ	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ
ACROLEIN	5 U	5 UR	5 UR	5 U	5 UR	5 U	5 U
ACRYLONITRILE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	0.18 J	0.73 J	1	1 U	1 U
BROMOBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.74 J	0.31 J	0.34 J	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CYCLOHEXANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	FL-01	FL-02	FL-03	FL-04	FL-04	FL-05	FL-06
SAMPLE ID	NTC02GW0107	NTC02GW0207	NTC02GW0307	NTC02GW0407	NTC02GW0407-D	NTC02GW0507	NTC02GW0607
SAMPLE DATE	05/07/2008	05/08/2008	05/08/2008	05/07/2008	05/07/2008	05/07/2008	05/07/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC02GW0407		
DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	0.26 J	0.37 J	1 U	1 U
ETHYL ACETATE	50 U	50 U	50 U	50 U	50 U	50 U	50 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES							
METHYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL CYCLOHEXANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL IODIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL METHACRYLATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-PROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE							
SEC-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERT-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRAHYDROFURAN	5 UR	5 UR	4 J	11 J	13 J	5 UR	5 UR
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOTAL XYLENES	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,4-DICHLORO-2-BUTENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)							
1,1-BIPHENYL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	0.25 J	0.5 U	0.5 U	0.54 U	0.5 U	0.04 J	0.5 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2,4,5-TRICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2,4-DIMETHYLPHENOL	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
2,4-DINITROPHENOL	5 U	5 U	5 U	5.4 U	5 U	5 U	5 U
2,4-DINITROTOLUENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2,6-DINITROTOLUENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2-CHLORONAPHTHALENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2-CHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	0.32 J	0.5 U	0.5 U	0.54 U	0.5 U	0.05 J	0.5 U
2-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
2-NITROANILINE	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
2-NITROPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
3&4-METHYLPHENOL							
3,3'-DICHLOROBENZIDINE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
3-NITROANILINE	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
4,6-DINITRO-2-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
4-BROMOPHENYL PHENYL ETHER	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
4-CHLORO-3-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	FL-01	FL-02	FL-03	FL-04	FL-04	FL-05	FL-06
SAMPLE ID	NTC02GW0107	NTC02GW0207	NTC02GW0307	NTC02GW0407	NTC02GW0407-D	NTC02GW0507	NTC02GW0607
SAMPLE DATE	05/07/2008	05/08/2008	05/08/2008	05/07/2008	05/07/2008	05/07/2008	05/07/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC02GW0407		
4-CHLOROANILINE	1 U	1 U	1 U	0.45 J	1 U	1 U	1 U
4-CHLOROPHENYL PHENYL ETHER	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
4-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.23 J	0.5 U	0.5 U	0.5 U
4-NITROANILINE	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
4-NITROPHENOL	5 U	5 U	5 U	5.4 U	5 U	5 U	5 U
ACENAPHTHENE	0.088 J	0.5 U	0.5 U	0.54 U	0.02 J	0.02 J	0.019 J
ACENAPHTHYLENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
ACETOPHENONE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ANILINE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
ANTHRACENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
ATRAZINE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BENZALDEHYDE	0.5 U	0.5 U	0.5 U	0.58 J	1.2 J	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BENZO(B)FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BENZO(K)FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROETHOXY)METHANE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROETHYL)ETHER	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROISOPROPYL)ETHER							
BIS(2-ETHYLHEXYL)PHTHALATE	0.5 U	0.91	0.5	0.54 U	0.5 U	0.5 U	0.5 U
BUTYL BENZYL PHTHALATE	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
CAPROLACTAM	1 U	1 U	1 U	1.1 U	1.7	1 U	1 U
CARBAZOLE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
CHRYSENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
DIBENZOFURAN	0.02 J	0.029 J	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
DIETHYL PHTHALATE	0.5 U	0.5 U	0.5 U	0.075 J	0.071 J	0.5 U	0.5 U
DIMETHYL PHTHALATE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	1 U	1.7	3.4	1.1 U	1 U	1 U	1 U
DI-N-OCTYL PHTHALATE	0.5 U	0.59	0.59	0.54 U	0.5 U	0.5 U	4.8
FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.54 U	0.041 J	0.5 U	0.5 U
FLUORENE	0.5 U	0.5 U	0.5 U	0.032 J	0.041 J	0.5 U	0.5 U
HEXACHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
HEXACHLOROBUTADIENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
HEXACHLOROCYCLOPENTADIENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
HEXACHLOROETHANE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
INDENO(1,2,3-CD)PYRENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
ISOPHORONE	0.5 U	0.5 U	0.5 U	0.11 J	0.5 U	0.5 U	0.5 U
NAPHTHALENE	9.3	0.5 U	0.5 U	0.054 J	0.031 J	1.1	0.5 U
NITROBENZENE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
N-NITROSO-DI-N-PROPYLAMINE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
N-NITROSODIPHENYLAMINE	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
PENTACHLOROPHENOL	1 U	1 U	0.29 J	1.1 U	1 U	1 U	1 U
PHENANTHRENE	0.5 U	0.17 J	0.5 U	0.022 J	0.5 U	0.5 U	0.5 U
PHENOL	0.5 U	0.5 U	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
PYRENE	0.5 U	0.049 J	0.5 U	0.54 U	0.5 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)							
4,4'-DDD	0.05 UJ	0.05 UJ	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
4,4'-DDE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
4,4'-DDT	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	FL-01	FL-02	FL-03	FL-04	FL-04	FL-05	FL-06
SAMPLE ID	NTC02GW0107	NTC02GW0207	NTC02GW0307	NTC02GW0407	NTC02GW0407-D	NTC02GW0507	NTC02GW0607
SAMPLE DATE	05/07/2008	05/08/2008	05/08/2008	05/07/2008	05/07/2008	05/07/2008	05/07/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC02GW0407		
ALDRIN	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALPHA-BHC	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALPHA-CHLORDANE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
AROCLOR-1016	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1221	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1232	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1242	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1248	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1254	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
AROCLOR-1260	0.2 UJ	0.2 U	0.2 UR	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
BETA-BHC	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN II	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN SULFATE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDRIN	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDRIN ALDEHYDE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDRIN KETONE	0.05 UJ	0.05 UJ	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC (LINDANE)	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-CHLORDANE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	0.05 UJ	0.05 U	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
METHOXYCHLOR	0.5 UJ	0.5 UJ	0.5 UR	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
TOXAPHENE	1 UJ	1 UJ	1 UR	1 UJ	1 UJ	1 UJ	1 UJ
ORGANOPHOSPHOROUS PESTICIDES (UG/L)							
ALACHLOR	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U
ALDRIN							
ATRAZINE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	0.2 U
BUTACHLOR	0.48 U	0.48 U	0.49 U	0.48 U	0.48 U	0.49 U	0.5 U
DIELDRIN							
ENDRIN							
GAMMA-BHC (LINDANE)							
METHOXYCHLOR							
METOLACLOR (DUAL)	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U
METRIBUZIN	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U
PROPACHLOR	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U
SIMAZINE	0.48 U	0.48 U	0.49 U	0.48 U	0.48 U	0.49 UJ	0.5 U
CARBAMATE UREA PESTICIDES (UG/L)							
3-HYDROXYCARBOFURAN	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB SULFONE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB SULFOXIDE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CARBARYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CARBOFURAN	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
METHIOCARB							
METHOMYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
OXAMYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
PROPOXUR							
HERBICIDES (UG/L)							
2,4,5-T	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	FL-01	FL-02	FL-03	FL-04	FL-04	FL-05	FL-06
SAMPLE ID	NTC02GW0107	NTC02GW0207	NTC02GW0307	NTC02GW0407	NTC02GW0407-D	NTC02GW0507	NTC02GW0607
SAMPLE DATE	05/07/2008	05/08/2008	05/08/2008	05/07/2008	05/07/2008	05/07/2008	05/07/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC02GW0407		
2,4,5-TP (SILVEX)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4-D	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-DB	2 U	2 U	2 U	1.2 J	0.83 J	2 U	2 U
DALAPON	2 U	2 U	2 U	2 U	2 U	2 U	2 U
DICAMBA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DICHLOROPROP	2 U	2 U	2 U	2 U	2 U	2 U	2 U
DINOSEB	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MCPA	200 U	200 U	200 U	200 U	200 U	200 U	200 U
MCPP	200 U	200 U	200 U	200 U	200 U	200 U	200 U
PENTACHLOROPHENOL							
PETROLEUM HYDROCARBONS (MG/L)							
OIL & GREASE - HEM	0.830000 U	1.1 J	0.830000 U	0.830000 U	0.830000 U	0.830000 U	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)							
ALUMINUM	20 U	6900 / 20 U	20 U / 20 U	20 U	20 U	1200 / 20 U	5000 / 31
ANTIMONY	0.36 U	0.32 U / 0.32 U	0.32 U / 0.32 U	0.93 U	0.95 U	0.32 U / 0.32 U	0.32 U / 0.32 U
ARSENIC	0.26	3.5 / 2.9	14 / 11	8	6.3	5.2 / 4.7	1.7 / 0.35
BARIUM	29	84 / 53	340 / 320	1100	1300	42 / 35	99 / 76
BERYLLIUM	0.23 U	0.33 / 0.23 U	0.23 U / 0.23 U	0.23 U	0.23 U	0.23 U / 0.23 U	0.23 U / 0.23 U
CADMIUM	0.056 U	0.13 / 0.056 U	0.056 U / 0.056 U	0.056 U	0.11 U	0.056 U / 0.056 U	0.16 / 0.056 U
CALCIUM	140000	44000 / 33000	170000 / 190000	200000	210000	74000 / 68000	140000 / 120000
CHROMIUM	0.61	9.3 / 1.2	0.33 U / 2.7	2.2	2.4	1.7 / 0.87	6.4 / 0.97
COBALT	0.25	3.9 / 0.17	4.3 / 4.3	7.4	8.1	1.2 / 0.71	2.8 / 0.29
COPPER	1.3	7.5 / 0.84	0.63 / 0.6	0.91	0.92	2.5 / 0.74	6.6 / 1.5
IRON	23	7300 / 9.6 U	16000 / 16000	13000	13000	1500 / 330	5400 / 9.6 U
LEAD	0.29 U	3.5 / 0.29 U	0.29 U / 0.29 U	0.29 U	0.29 U	1.2 / 0.29 U	2.6 / 0.29 U
MAGNESIUM	160000	29000 / 24000	89000 / 97000	130000	150000	56000 / 54000	73000 / 67000
MANGANESE	15	120 / 7.5	83 / 85	140	140	33 / 11	170 / 51
MERCURY	0.046 U	0.046 U / 0.046 U	0.046 U / 0.046 U	0.046 U	0.046 U	0.046 U / 0.046 U	0.046 U / 0.046 U
NICKEL	5.8	12 / 1.4	22 / 22	19	20	8.5 / 4.6	14 / 4.7
POTASSIUM	4000	4300 / 1300	2100 / 2100	28000	37000	2200 / 1600	4500 / 2400
SELENIUM	0.37	0.30 U / 0.62	1.8 / 1.1	3.9	4.6	0.58 / 0.30 U	0.30 U / 0.30 U
SILVER	0.061 U	0.061 U / 0.061 U	0.061 U / 0.061 U	0.061 U	0.061 U	0.061 U / 0.061 U	0.061 U / 0.061 U
SODIUM	67000	60000 / 62000	76000 / 85000	330000	380000	47000 / 45000	52000 / 51000
THALLIUM	0.05 U	0.099 / 0.05 U	0.05 U / 0.086	0.05 U	0.05 U	0.05 U / 0.05 U	0.21 / 0.092
VANADIUM	0.43	11 / 0.56	0.27 U / 3.9	1.8	2.1	1.9 / 0.3	8.2 / 0.51
ZINC	5.4 U	16 U / 2.1	7 U / 8.8	4.1 U	12 U	15 U / 7.4 U	17 U / 6.1 U
TOTAL ESSENTIAL NUTRIENTS	371000	137300 / 120300	337100 / 374100	688000	777000	179200 / 168600	269500 / 240400
MISCELLANEOUS PARAMETERS							
AMMONIA-N (MG/L)	0.004 U	0.35	0.17	27	37	0.41	0.14
BIOCHEMICAL OXYGEN DEMAND (MG/L)	2.0 U	2.0 U	2.7	8.8 J	16.0 J	2.0 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	3.4	11	53 U	150	160	15	7
CHLORIDE (MG/L)	47	61	150	450	480	36	29
CYANIDE (MG/L)	0.0028 U	0.0024 U	0.0032 U	0.0033 U	0.0036 U	0.0026 U	0.0028 U
FECAL COLIFORM (COL/1)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
FLUORIDE (MG/L)	0.48	0.74	0.25	0.16	0.15	0.51	0.35
HEXAVALENT CHROMIUM (MG/L)	0.0041 UJ	0.0041 UJ	0.0041 UJ	0.0047 J	0.0059 J	0.0082 J	0.0041 UJ
NITRATE (MG/L)							
NITRATE-N (MG/L)	0.28	0.018 J	0.022 J	0.024 J	0.025 J	0.022 J	0.048 J
NITRITE/NITRATE-N (MG/L)	0.28 U	0.022 U	0.022 U	0.028 U	0.025 U	0.022 U	0.053 U
NITRITE-N (MG/L)	0.0029 U	0.0037 J	0.0029 U	0.0037 J	0.0029 U	0.0029 U	0.005 J
PH (S.U.)							

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
FORRESTAL LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	**FL-01**	**FL-02**	**FL-03**	**FL-04**	**FL-04**	**FL-05**	**FL-06**
SAMPLE ID	**NTC02GW0107**	**NTC02GW0207**	**NTC02GW0307**	**NTC02GW0407**	**NTC02GW0407-D**	**NTC02GW0507**	**NTC02GW0607**
SAMPLE DATE	**05/07/2008**	**05/08/2008**	**05/08/2008**	**05/07/2008**	**05/07/2008**	**05/07/2008**	**05/07/2008**
ROUND	**QTR07**	**QTR07**	**QTR07**	**QTR07**	**QTR07**	**QTR07**	**QTR07**
DUPLICATE SAMPLE					**NTC02GW0407**		
SULFATE (MG/L)	580	140	20	46	39	180	260
TOTAL DISSOLVED SOLIDS (MG/L)	1400	470	1100	1900	2000	580	850
TOTAL ORGANIC CARBON (MG/L)	2.3	1.4	0.16 U	43	46	6	2.6
TOTAL PHENOLICS (MG/L)	0.0048 U	0.0048 U	0.0048 U	0.0048 UJ	0.0048 U	0.0048 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	0.012	0.1	0.039	0.21	0.26	0.026	0.052
TOTAL SUSPENDED SOLIDS (MG/L)	3.3 U	80	37	31	33	33	43
FIELD RESULTS							
CONDUCTIVITY (MS/CM)	1.89	0.664	1.78	3.49	3.49	0.917	1.295
DISSOLVED OXYGEN (MG/L)	0.57	0.35	0.35	0.13	0.13	3.54	0.60
OXIDATION REDUCTION POTENTIAL (MV)	198	-110	-50	-90	-90	-173	60
PH (S.U.)	6.95	8.38	6.50	6.72	6.72	7.93	7.12
SALINITY (PPT)	0	0	0	0	0	0	0
TEMPERATURE (C)	12.23	11.16	9.92	11.41	11.41	12.48	13.58
TURBIDITY (NTU)	1.53	47.4	9.32	1.42	1.42	23.4	30.3

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	SL-01	SL-02	SL-03	SL-04	SL-04	SL-05	SL-06
SAMPLE ID	NTC03GW0107	NTC03GW0207	NTC03GW0307	NTC03GW0407	NTC03GW0407-D	NTC03GW0507	NTC03GW0607
SAMPLE DATE	05/06/2008	05/06/2008	05/06/2008	05/05/2008	05/05/2008	05/05/2008	05/06/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC03GW0407		
VOLATILE ORGANIC COMPOUNDS (UG/L)							
1,1,1,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROTRIFLUOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPENE							
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROETHYL VINYL ETHER	5 U	5 U	5 U	5 U	5 U	5 UR	5 U
2-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-ISOPROPYLTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
ACROLEIN	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACRYLONITRILE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CYCLOHEXANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYL ACETATE	50 U	50 U	50 U	50 U	50 U	50 U	50 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	SL-01	SL-02	SL-03	SL-04	SL-04	SL-05	SL-06
SAMPLE ID	NTC03GW0107	NTC03GW0207	NTC03GW0307	NTC03GW0407	NTC03GW0407-D	NTC03GW0507	NTC03GW0607
SAMPLE DATE	05/06/2008	05/06/2008	05/06/2008	05/05/2008	05/05/2008	05/05/2008	05/06/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC03GW0407		
M+P-XYLENES							
METHYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL CYCLOHEXANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL IODIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL METHACRYLATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-PROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE							
SEC-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERT-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRAHYDROFURAN	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOTAL XYLENES	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,4-DICHLORO-2-BUTENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILE ORGANIC COMPONDS (UG/L)							
1,1-BIPHENYL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1-METHYLNAPHTHALENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TRICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,6-TRICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DICHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DIMETHYLPHENOL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,4-DINITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROTOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,6-DINITROTOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-CHLORONAPHTHALENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-CHLOROPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-METHYLNAPHTHALENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-NITROANILINE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-NITROPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
3&4-METHYLPHENOL							
3,3'-DICHLOROBENZIDINE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UR	0.5 U
3-NITROANILINE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4,6-DINITRO-2-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-BROMOPHENYL PHENYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-CHLORO-3-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-CHLOROANILINE	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
4-CHLOROPHENYL PHENYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-METHYLPHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-NITROANILINE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHENE	0.5 U	0.021 J	0.019 J	0.5 U	0.02 J	0.03 J	0.019 J
ACENAPHTHYLENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ACETOPHENONE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	SL-01	SL-02	SL-03	SL-04	SL-04	SL-05	SL-06
SAMPLE ID	NTC03GW0107	NTC03GW0207	NTC03GW0307	NTC03GW0407	NTC03GW0407-D	NTC03GW0507	NTC03GW0607
SAMPLE DATE	05/06/2008	05/06/2008	05/06/2008	05/05/2008	05/05/2008	05/05/2008	05/06/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC03GW0407		
ANILINE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ANTHRACENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ATRAZINE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZALDEHYDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	0.05 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(A)PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(B)FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(K)FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROETHOXY)METHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROETHYL)ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BIS(2-CHLOROISOPROPYL)ETHER							
BIS(2-ETHYLHEXYL)PHTHALATE	0.5 U	2.1	2.5	0.5 U	0.5 U	0.5 U	0.5 U
BUTYL BENZYL PHTHALATE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CAPROLACTAM	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
CARBAZOLE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHRYSENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DIBENZOFURAN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DIETHYL PHTHALATE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DIMETHYL PHTHALATE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DI-N-BUTYL PHTHALATE	3.3 U	2.4 U	3.2 U	1.8 U	3.1 U	3.9 U	2.4 U
DI-N-OCTYL PHTHALATE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
FLUORANTHENE	0.02 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
FLUORENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
HEXACHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
HEXACHLOROBUTADIENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
HEXACHLOROCYCLOPENTADIENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
HEXACHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
INDENO(1,2,3-CD)PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPHORONE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NAPHTHALENE	0.03 J	0.5 U	0.5 U	0.029 J	0.03 J	0.5 U	0.5 U
NITROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-NITROSO-DI-N-PROPYLAMINE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
N-NITROSODIPHENYLAMINE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PENTACHLOROPHENOL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PHENANTHRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.02 J	0.5 U
PHENOL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PESTICIDES/PCBs (UG/L)							
4,4'-DDD	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALDRIN	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-CHLORDANE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
AROCLOR-1016	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1221	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1232	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1242	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1248	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1254	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
AROCLOR-1260	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
BETA-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DELTA-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	SL-01	SL-02	SL-03	SL-04	SL-04	SL-05	SL-06
SAMPLE ID	NTC03GW0107	NTC03GW0207	NTC03GW0307	NTC03GW0407	NTC03GW0407-D	NTC03GW0507	NTC03GW0607
SAMPLE DATE	05/06/2008	05/06/2008	05/06/2008	05/05/2008	05/05/2008	05/05/2008	05/06/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC03GW0407		
DIELDRIN	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN II	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN SULFATE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDRIN	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDRIN ALDEHYDE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDRIN KETONE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC (LINDANE)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
METHOXYCHLOR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOXAPHENE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
ORGANOPHOSPHOROUS PESTICIDES (UG/L)							
ALACHLOR	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
ALDRIN							
ATRAZINE	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
BUTACHLOR	0.48 U	0.48 U	0.48 U	0.48 U	0.49 U	0.49 U	0.48 U
DIELDRIN							
ENDRIN							
GAMMA-BHC (LINDANE)							
METHOXYCHLOR							
METOLACLOR (DUAL)	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
METRIBUZIN	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
PROPACHLOR	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U
SIMAZINE	0.48 U	0.48 U	0.48 U	0.48 U	0.49 U	0.49 U	0.48 U
CARBAMATE UREA PESTICIDES (UG/L)							
3-HYDROXYCARBOFURAN	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB SULFONE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ALDICARB SULFOXIDE	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CARBARYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CARBOFURAN	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
METHIOCARB							
METHOMYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
OXAMYL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
PROPOXUR							
HERBICIDES (UG/L)							
2,4,5-T	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U
2,4,5-TP (SILVEX)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U
2,4-D	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
2,4-DB	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
DALAPON	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
DICAMBA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U
DICHLOROPROP	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
DINOSEB	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
MCPA	200 U	200 U	200 U	200 U	200 UJ	200 U	200 U
MCPP	200 U	200 U	200 U	200 U	200 UJ	200 U	200 U
PENTACHLOROPHENOL							
PETROLEUM HYDROCARBONS (MG/L)							
OIL & GREASE - HEM	0.830000 U	0.830000 U	0.830000 U	0.830000 U	0.830000 U	1.1 J	0.830000 U
INORGANICS - TOTAL / DISSOLVED (UG/L)							
ALUMINUM	41 / 26	890	1000 / 46	20 U	20 U	20 U	230 / 27
ANTIMONY	0.32 U / 0.41	0.42 U	0.32 U / 0.55	0.54 U	0.58 U	0.43 U	0.32 U / 0.32 U
ARSENIC	0.93 / 0.64	3.9	2.2 / 1.6	0.3	0.44	0.7	25 / 5.5

SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ROUND 7
SUPPLY SIDE LANDFILL
NAVAL STATION GREAT LAKES, ILLINOIS

LOCATION ID	SL-01	SL-02	SL-03	SL-04	SL-04	SL-05	SL-06
SAMPLE ID	NTC03GW0107	NTC03GW0207	NTC03GW0307	NTC03GW0407	NTC03GW0407-D	NTC03GW0507	NTC03GW0607
SAMPLE DATE	05/06/2008	05/06/2008	05/06/2008	05/05/2008	05/05/2008	05/05/2008	05/06/2008
ROUND	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07	QTR07
DUPLICATE SAMPLE					NTC03GW0407		
BARIUM	53 / 47	62	22 / 18	75	72	380	99 / 51
BERYLLIUM	0.23 U / 0.23 U	0.23 U	0.23 U / 0.23 U	0.23 U	0.23 U	0.23 U	0.23 U / 0.23 U
CADMIUM	0.056 U / 0.056 U	0.11 U	0.056 U / 0.056 U	0.056 U	0.056 U	0.056 U	0.056 U / 0.056 U
CALCIUM	170000 / 170000	58000	85000 / 80000	88000	82000	220000	150000 / 160000
CHROMIUM	0.76 / 0.33 U	2.2	1.9 / 0.99	0.51	0.37	0.72	0.56 / 0.66
COBALT	1.1 / 1.1	0.56	0.64 / 0.21	0.93	0.77	2.1	0.96 / 0.85
COPPER	1.6 / 0.83	1.5	4 / 0.76	2.5	1.6	0.89	1.4 / 0.88
IRON	2300 / 740	1000	1900 / 710	110 J	250 J	16000	29000 / 6400
LEAD	0.4 / 0.29 U	0.57	0.55 / 0.29 U	0.29 U	0.29 U	0.29 U	0.43 / 0.29 U
MAGNESIUM	83000 / 83000	93000	79000 / 75000	57000	57000	93000	53000 / 55000
MANGANESE	170 / 150	43	47 / 27	35	31	460	780 / 760
MERCURY	0.046 U / 0.046 U	0.046 U	0.046 U / 0.046 U	0.046 U	0.046 U	0.046 U	0.046 U / 0.046 U
NICKEL	3 / 2.9	2.7	3.4 / 2.2	6.2 J	3.4 J	10	2.7 / 2.1
POTASSIUM	1400 / 1400	3500	2800 / 2500	2100	2000	7100	1000 / 1100
SELENIUM	0.30 U / 0.30 U	0.30 U	0.30 U / 0.30 U	0.30 U	0.30 U	1.3	0.30 U / 0.30 U
SILVER	0.061 U / 0.061 UJ	0.061 U	0.061 U / 0.061 UJ	0.061 U	0.061 U	0.061 U	0.061 U / 0.061 UJ
SODIUM	33000 / 33000	300000	53000 / 51000	41000	35000	100000	48000 / 50000
THALLIUM	0.05 U / 0.05 U	0.05 U	0.055 / 0.05 U	0.074	0.06	0.05 U	0.05 U / 0.05 U
VANADIUM	0.54 / 0.35	1.7	2 / 0.35	0.27 U	0.27 U	0.84	1.1 / 0.3
ZINC	5.4 U / 11 U	8.3 U	8.5 U / 5.1 U	6.4 U	6.2 U	4.9 U	7.3 U / 7.9 U
TOTAL ESSENTIAL NUTRIENTS	287400 / 287400	454500	219800 / 208500	188100	176000	420100	252000 / 266100
MISCELLANEOUS PARAMETERS							
AMMONIA-N (MG/L)	0.17	0.35	0.56	0.18	0.17	16	0.24
BIOCHEMICAL OXYGEN DEMAND (MG/L)	8.4	2.0 U	8.3	2.0 U	2.0 U	2.0 U	2.0 U
CHEMICAL OXYGEN DEMAND (MG/L)	11	6.1	4.1	5.1	4	54 U	7.4
CHLORIDE (MG/L)	18	590	28	23	19	140	78
CYANIDE (MG/L)	0.0032 U	0.0032 U	0.003 U	0.0034 U	0.0034 U	0.0039 U	0.003 U
FECAL COLIFORM (COL/1)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
FLUORIDE (MG/L)	0.4	0.44	0.67	0.58	0.59	0.24	0.32
HEXAVALENT CHROMIUM (MG/L)	0.0041 UJ	0.0041 UJ	0.0041 UJ	0.0041 UJ	0.0041 UJ	0.0041 UJ	0.0073 J
NITRATE (MG/L)							
NITRATE-N (MG/L)	0.034 J	0.039 J	0.054 J	0.26	0.31	0.064 J	0.024 J
NITRITE/NITRATE-N (MG/L)	0.034 U	0.039 U	0.054 U	0.26 U	0.31 U	0.064 U	0.027 U
NITRITE-N (MG/L)	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.003 J
PH (S.U.)							
SULFATE (MG/L)	340	120	280	87	88	180	180
TOTAL DISSOLVED SOLIDS (MG/L)	950	1300	730	570	550	1200	790
TOTAL ORGANIC CARBON (MG/L)	4.3	2.1	1.9	2.6	2.2	17	7
TOTAL PHENOLICS (MG/L)	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
TOTAL PHOSPHORUS (MG/L)	0.035	0.02	0.024	0.026	0.019	0.22	1.3
TOTAL SUSPENDED SOLIDS (MG/L)	6.5	52	38	3.3 U	3.3 U	31	72
FIELD RESULTS							
CONDUCTIVITY (MS/CM)	1.436	2.51	1.208	1.049	1.049	2.48	1.301
DISSOLVED OXYGEN (MG/L)	0.44	0.10	0.14	0.16	0.16	0.13	0.11
OXIDATION REDUCTION POTENTIAL (MV)	-14	-161	-145	55	55	-136	-57
PH (S.U.)	6.98	8.57	7.54	6.81	6.81	6.99	6.93
SALINITY (PPT)	0	0	0	0	0	0	0
TEMPERATURE (C)	12.70	13.72	13.37	11.99	11.99	10.84	11.82
TURBIDITY (NTU)	7.72	2.56	36.7	1.61	1.61	0.88	180

APPENDIX D

DATA VALIDATION REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: [redacted] **DATE:** **JULY 14, 2008**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PAH/PEST/PCB/OPEST/HERB/PET**
CTO 478, NTC GREAT LAKES
SDG 0805103

SAMPLES: 17/Aqueous/VOC

NTC02GW0107	NTC02GW0207	NTC02GW0307
NTC02GW0407	NTC02GW0507	NTC02GW0607
NTC03GW0107	NTC03GW0207	NTC03GW0307
NTC03GW0407	NTC03GW0507	NTC03GW0607
NTCFD050508-01	NTCFD050708-01	NTCTB050508-01
NTCTB050708-01	NTCTB050808-01	

14/Aqueous/SVOC/PAH/PEST/PCB/OPPEST/HERB/PET

NTC02GW0107	NTC02GW0207	NTC02GW0307
NTC02GW0407	NTC02GW0507	NTC02GW0607
NTC03GW0107	NTC03GW0207	NTC03GW0307
NTC03GW0407	NTC03GW0507	NTC03GW0607
NTCFD050508-01	NTCFD050708-01	

OVERVIEW

The sample set for CTO 478 NTC Great Lakes, SDG 0805103 consists of, three (3) trip blanks, and fourteen (14) aqueous environmental samples. The samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), polycyclic aromatic hydrocarbons (PAH), chlorinated pesticides (PEST), organophosphate pesticides (OPPEST), polychlorinated biphenyls (PCB), herbicides (HERB), and oil & grease / petroleum hydrocarbon (PET). The 3 trip blanks were analyzed for TCL VOCs only. Two field duplicate pairs were included in this SDG: NTC03GW0407 / NTCFD050508-01 and NTC02GW0407 / NTCFD050708-01.

The samples were collected by TetraTech NUS on May 5, 6, 7, 8, 2008 and analyzed by TriMatrix Laboratories and Test America Savannah. All analyses were conducted using USEPA SW-846 Methods 8260B, 8270C, 8082, 8081A, 8151A, 8141, EPA Method 1664, EPA Method 525.2, and EPA Method 531.1 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data Completeness
• Holding Times
* • GC/MS Tuning
• Initial and Continuing Calibration
• Laboratory Blank Analyses
• Surrogate Recoveries
• Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
• Internal Standard Recoveries
• Field Duplicate Results

* • Compound Quantitation
* • Compound Identification
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatile

The following compounds were detected in the trip blanks (TB) and method (MB):

Compound		Maximum Concentration	Blank Action Level
Ethylbenzene	(05/14/08 MB)	0.070 µg/L	0.350 µg/L
Methyl methacrylate	(05/14/08 MB)	0.100 µg/L	0.500 µg/L
Ethylbenzene	(05/14/08 TB)	0.070 µg/L	0.350 µg/L

Blank Actions

- Value < Reporting Limit (RL); value followed by a U.
- Value > RL and < Action level; report value followed by a U.
- Value > RL and > action level; report value followed by a J.

An action level of 5X the maximum contaminant concentration was established to evaluate laboratory contamination for ethylbenzene and methyl methacrylate. Dilution factors and sample aliquots were taken into consideration during the application of the action level. There were no positive sample results for ethylbenzene or methyl methacrylate therefore no samples were affected.

Initial calibration relative response factor (RRF) was less than the 0.05 quality control limit for tetrahydrofuran on instrument 224, on 04/28/08. Positive and non-detected results reported for tetrahydrofuran were qualified estimated (J) and rejected (UR), respectively, in the associated samples for SDG 0805103.

A continuing calibration percent difference (%D) was greater than the 25% quality control limit for acetone on instrument 224, on 05/12/08 at 09:43. Only non-detected results were reported for acetone and these were qualified as estimated (UJ), in the affected samples.

Continuing calibration verification RRF was less than the 0.05 quality control limit for acrolein and tetrahydrofuran on instrument 224, on 05/14/08, at 17:06. Only non-detected results were reported for acrolein and these were rejected (UR) in the affected samples. Tetrahydrofuran sample results were previously qualified due to the initial calibration RRF less than the quality control limit of 0.05 so no further data qualification was necessary.

A continuing calibration verification percent difference (%D) was greater than the 25% quality control limit for acrolein on instrument 224, on 05/14/08, at 17:06. Acrolein results were already qualified for the RRF less than the control limit of 0.05 as previously described so no further data qualification was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had percent recoveries for 2-chloroethyl vinyl ether less than ten percent. The non-detected 2-chloroethyl vinyl ether result for sample NTC03GW0507 has been qualified rejected (UR).

Semivolatile

The following compounds were detected in the method blanks:

Method blank 05/17/08@12:43	Maximum	Blank
Compound	Concentration	Action Level
Acetophenone	0.060 µg/L	0.30 µg/L
Benzo(k)fluoranthene	0.040 µg/L	0.20 µg/L
1,1-Biphenyl	0.020 µg/L	0.10 µg/L
Butyl benzyl phthalate	0.060 µg/L	0.60 µg/L
Chrysene	0.030 µg/L	0.15 µg/L
di-n-Butyl phthalate	3.86 µg/L	38.6 µg/L
Method blank 05/17/08@13:12		
Acetophenone	0.080 µg/L	0.400 µg/L
Butyl benzyl phthalate	0.060 µg/L	0.600 µg/L
di-n-Butyl phthalate	0.820 µg/L	8.200 µg/L
Method blank 05/23/08@10:42		
Acenaphthene	0.020 µg/L	0.200 µg/L
Acetophenone	0.120 µg/L	0.600 µg/L
Benzo(a)anthracene	0.060 µg/L	0.300 µg/L
Benzo(a)pyrene	0.030 µg/L	0.150 µg/L
Benzo(b)fluoranthene	0.040 µg/L	0.200 µg/L
Benzo(k)fluoranthene	0.040 µg/L	0.200 µg/L
1,1-Biphenyl	0.020 µg/L	0.100 µg/L
Butyl benzyl phthalate	0.380 µg/L	3.800 µg/L
Chrysene	0.070 µg/L	0.350 µg/L
Diethyl phthalate	0.090 µg/L	0.900 µg/L
Fluoranthene	0.020 µg/L	0.100 µg/L
Phenanthrene	0.020 µg/L	0.100 µg/L

Blank Actions

- Value < Reporting Limit (RL); value followed by a U.
- Value > RL and < Action level; report value followed by a U.
- Value > RL and > action level; report value followed by a J.

An action level of 5X the maximum SVOC contaminant concentration was established to evaluate laboratory contamination for all SVOC compounds with the exception of the common phthalates which have an action level of 10X the maximum concentration established to evaluate laboratory contamination. Dilution factors and sample aliquots were taken into consideration during the application of the action level. Positive results for the SVOC compounds listed were qualified (U) as a result of blank contamination in the affected samples.

The laboratory control sample / laboratory control sample duplicate (LCS / LCSD) from 05/23/08 associated with sequence 08052373 had percent recoveries greater than the quality control limit for 2-chlorophenol, 2,4-dichlorophenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol. No data qualification was necessary because the aforementioned compounds were not detected in any associated samples.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had a percent recovery less than quality control limit for caprolactam and 4-chloroaniline, and a less than 10% recovery for 3,3'-dichlorobenzidine in the MS and MSD. The MSD also had a percent recovery less than the quality control limit for 3-nitroaniline. The MS/MSD pair had % RPDs greater than the quality control limit for 4-chloroaniline, di-n-

butyl phthalate, 3,3'-dichlorobenzidine, and 2,4-dinitrotoluene. The non-detected results for caprolactam and 4-chloroaniline for NTC03GW0507 were qualified estimated, (UJ). The non-detect result for 3,3'-dichlorobenzidine for NTC03GW0507 was qualified rejected, (UR). No action was taken on the remaining compounds because either the MS or the MSD had acceptable recoveries.

The duplicate analysis for the pair NTC02GW0407 / NTCFD050708-01 resulted in a greater than the quality control limit % RPD result for the SVOC compound benzaldehyde. The positive results for benzaldehyde for the aforementioned samples were qualified estimated, (J), as a result of this QC issue.

PCB

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had a relative percent difference (RPD) greater than quality control limit for Aroclor-1016. No data qualification was necessary since there were no positive PCB/Aroclor detects for NTC03GE0507.

Surrogate recoveries were greater than the quality control limits on several samples and calibration checks in PCB analytical sequence 8052064 started on 05/19/08 on the secondary GC column. No data results were qualified as there were no PCBs detected in the samples and the primary GC column had acceptable surrogate recoveries. Surrogate recoveries for tetrachloro-m-xylene were less than the quality control limits for both GC columns for PCB analytical sequence 8052342 started on 05/22/08 for samples NTC02GW0107, NTC02GW0407, NTC02GW0507, NTC02GW0607, NTCFD050708-01, and NTC02GW0307. The non-detects for the aforementioned samples were all qualified estimated, (UJ), with the exception of sample NTC02GW0307 which had all non-detects qualified rejected, (UR), due to surrogate recovery <10% and >0%.

PEST

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had a percent recovery less than the quality control limit for beta-BHC and endrin ketone on both the primary and the secondary column in the MSD. Endosulfan sulfate had low % recovery in the MSD on the secondary column. The RPDs for alpha-BHC, gamma-BHC, delta-BHC, alpha-chlordane, gamma-chlordane, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin aldehyde, and endrin ketone on the primary and/or secondary column(s) exceeded the quality control limits. No data qualification was necessary due to these issues because the MS recoveries met control limits for all of the aforementioned compounds.

The laboratory control samples / laboratory control sample duplicate (LCS / LCSD) associated with sequence 08051653 had a percent recovery on the secondary GC column greater than the quality control limit for methoxychlor. No data qualification was necessary since the methoxychlor recovery was satisfactory on the primary GC column and because methoxychlor was not detected in any samples in the SDG.

There were lower than the quality control limit % recoveries for the surrogate standard tetrachloro-m-xylene for both the primary and secondary GC columns in sequence 8051653 started 05/15/08 for samples NTC02GW0107, NTC02GW0407, NTC02GW0507, NTC02GW0607, and NTCFD050708-01. The non-detects for the aforementioned samples were all qualified estimated, (UJ). There was a surrogate % recovery less than the QC limit, <10% >0%, for surrogate tetrachloro-m-xylene in sequence 8052156 started on 05/16/08 for sample NTC02GW0307. The non-detects for the aforementioned sample were qualified rejected, (UR).

Calibration verification %Ds exceeded the 15% quality control limit for 4,4'-DDTand methoxychlor on instrument 199, on 05/16/08, at 02:18 for the secondary GC column. No action was taken because the primary column met quality control criteria. Calibration verification %D exceeded the 15% quality control limit for toxaphene on instrument 199, on 05/16/08 at 02:58 and on 05/16/08 at 15:29 for both the primary and secondary GC columns. The non-detects for toxaphene for samples NTC03GW0207, NTC03GW0107, NTCFD050508-01, NTC03GW0507, NTC03GW0407, NTC02GW0107, NTC02GW0207, NTC02GW0407, NTC02GW0507, NTC02GW0607, and NTCFD050708-01, were qualified estimated, (UJ). The calibration verification %D exceeded the 15% quality control limit for alpha-BHC, delta-BHC, alpha-chlordane, 4,4'-DDE,

aldrin, dieldrin, endosulfan II, endosulfan sulfate, endrin, and endrin aldehyde on instrument 199, on 05/16/08, at 11:49, for the primary GC column. No action was taken because the secondary column met quality control criteria. The calibration verification %D exceeded the 15% quality control limit for 4,4'-DDD, endrin ketone, and methoxychlor on instrument 199, on 05/16/08, at 11:49, for both the primary and secondary GC columns. The non-detects for the aforementioned compounds for samples from sequence 805163 after the last calibration verification, NTC02GW0107, NTC02GW0207, NTC02GW0407, NTC02GW0507, NTC02GW0607, and NTCFD050708-01, were qualified estimated, (UJ). Calibration verification %D exceeded the 15% quality control limit for toxaphene on instrument 199, on 05/17/08 at 11:38 for both the primary and secondary GC columns. The non-detects for toxaphene for samples NTC03GW0307, NTC03GW0607, and NTC02GW0307 were qualified estimated, (UJ).

OPPest

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had percent recoveries less than the quality control limit for atrazine on both the MS and MSD, and simazine on the MS. The non-detects for the aforementioned compounds for sample NTC03GW0507 were qualified estimated, (UJ).

The internal standard terphenyl-d14 exceeded the quality control limits on samples analyzed on 05/13/08 and 05/14/08. No data qualification was necessary since no OP Pest compounds were quantified from this internal standard.

Herbicide

Sample NTCFD050508-01 exceeded the seven day extraction hold time by one day. The non-detects for sample NTCFD050508-01 were qualified estimated, (UJ) due to this hold time exceedance.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NTC03GW0507 had percent recoveries greater than quality control limit for dalapon on the primary column. No data qualification was necessary because dalapon was not detected in the sample.

Calibration verification %Ds exceeded the 15% quality control limit for MCPA and MCPP on instrument 222, on 05/18/08, at 01:33 for the secondary GC column. No data qualification was necessary because the primary GC column met criteria.

Calibration verification %Ds exceeded the 15% quality control limit for 2,4,5-Tand 2,4-DB on instrument 222, on 05/18/08, at 08:21 for the secondary GC column. No data qualification was necessary because the primary GC column met criteria.

CARPEST

There were no issues associated with the CARPEST analyses run on the SDG.

PET / Oil & Grease

There were no issues associated with the oil and grease analyses run on the SDG. A sample duplicate analysis performed on NTC03GW0507 did not allow for comparison due to the non-detect and less than the reporting limit analytical results.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds in the VOC fraction exceeded the continuing calibration RRF or %D criteria resulting in qualification of the data. Two compounds were detected in the VOC method blanks. MS/MSD non-compliances for the VOC fraction resulted in qualification of sample data.

There were multiple compounds detected in the method blanks for the SVOC analysis. Several compounds in the SVOC fraction exceeded the continuing calibration RRF or %D criteria resulting in qualification of sample data. MS/MSD non-compliances for the SVOC fraction resulted in qualification of sample data.

The PCB analysis had low surrogate % recoveries on both GC columns for several samples resulting in the qualification of sample data.

The PEST calibration verification %D exceeded the 15% quality control limit for several PEST compounds resulting in the qualification of sample data. Surrogate recoveries less than the quality control limit in the PEST fraction resulted in the qualification of data for six samples.

A less than the quality control limit % recovery in the OP PEST fraction on the MS/MSD sample for atrazine and simazine resulted in the qualification of sample data for the affected sample.

One sample exceeded the analytical hold time prior to extraction in the herbicide fraction resulting in qualification of the non-detects for that sample.

Other factors affecting data quality: There were no continuing calibration verifications after the initial calibration for the samples run for PCBs on 05/09/08. There was no beginning continuing calibration verification for the samples run for PCBs on 05/19/08. There were no method blank and no instrument blank run on 05/09/08 during the PCB analysis sample run. There was no method blank and no instrument blank run on 05/19/08 during the PCB analysis sample run. There was no instrument blank run on 5/22/08 during the PCB analysis run. The PCB analytical runs for some of the SDG samples were performed on only one GC column and then 10 days later on the second GC column. There were no instrument blanks included with PEST Sequence 8052156 and PEST Sequence 8051653. Several PEST continuing calibration verification check samples (CCV) had surrogate % recoveries for decachlorobiphenyl (DCB) and/or tetrachloro-m-xylene (TCX) greater than the quality control limits on the primary and/or secondary GC columns.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

TetraTech NUS

Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0107	nsample	NTC02GW0107	nsample	NTC02GW0107
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-01	lab_id	0805165-01	lab_id	0805165-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0207	nsample	NTC02GW0207	nsample	NTC02GW0207
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805207-01	lab_id	0805207-01	lab_id	0805207-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
ACROLEIN	5	UR	C
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0307	nsample	NTC02GW0307	nsample	NTC02GW0307
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805207-02	lab_id	0805207-02	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
ACROLEIN	5	UR	C
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	0.18	J	P
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	0.74	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	4	J	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0407	nsample	NTC02GW0407	nsample	NTC02GW0407
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-02	lab_id	0805165-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	0.73	J	P
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	0.31	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	0.26	J	P
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	11	J	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0507	nsample	NTC02GW0507	nsample	NTC02GW0507
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-03	lab_id	0805165-03	lab_id	0805165-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC02GW0607	nsample	NTC02GW0607	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-04	lab_id	0805165-04	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0107
samp_date	5/6/2008
lab_id	0805134-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

nsample	NTC03GW0107
samp_date	5/6/2008
lab_id	0805134-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

nsample	NTC03GW0107
samp_date	5/6/2008
lab_id	0805134-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0207
samp_date	5/6/2008
lab_id	0805134-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

nsample	NTC03GW0207
samp_date	5/6/2008
lab_id	0805134-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

nsample	NTC03GW0207
samp_date	5/6/2008
lab_id	0805134-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0307
samp_date	5/6/2008
lab_id	0805134-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

nsample	NTC03GW0307
samp_date	5/6/2008
lab_id	0805134-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

nsample	NTC03GW0307
samp_date	5/6/2008
lab_id	0805134-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0407
samp_date	5/5/2008
lab_id	0805103-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

nsample	NTC03GW0407
samp_date	5/5/2008
lab_id	0805103-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

nsample	NTC03GW0407
samp_date	5/5/2008
lab_id	0805103-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0507	nsample	NTC03GW0507	nsample	NTC03GW0507
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/5/2008
lab_id	0805103-02	lab_id	0805103-02	lab_id	0805103-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	UR	D
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTC03GW0607	nsample	NTC03GW0607	nsample	NTC03GW0607
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-04	lab_id	0805134-04	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTCFD050508-01
samp_date	5/5/2008
lab_id	0805103-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

nsample	NTCFD050508-01
samp_date	5/5/2008
lab_id	0805103-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

nsample	NTCFD050508-01
samp_date	5/5/2008
lab_id	0805103-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTCFD050708-01	nsample	NTCFD050708-01	nsample	NTCFD050708-01
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-05	lab_id	0805165-05	lab_id	0805165-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
ACROLEIN	5	UR	C
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1		
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	0.34	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	0.37	J	P
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	13	J	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTCTB050508-01	nsample	NTCTB050508-01	nsample	NTCTB050508-01
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/5/2008
lab_id	0805103-04	lab_id	0805103-04	lab_id	0805103-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UJ	C
ACROLEIN	5	UR	C
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTCTB050708-01	nsample	NTCTB050708-01	nsample	NTCTB050708-01
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-06	lab_id	0805165-06	lab_id	0805165-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
ACROLEIN	5	UR	C
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	0.07	J	P
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OV

nsample	NTCTB050808-01	nsample	NTCTB050808-01	nsample	NTCTB050808-01
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805207-03	lab_id	0805207-03	lab_id	0805207-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	5	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
ACROLEIN	5	U	
ACRYLONITRILE	1	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
CYCLOHEXANE	5	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYL ACETATE	50	U	
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL IODIDE	1	U	
METHYL METHACRYLATE	5	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	

Parameter	Result	Val Qual	Qual Code
TETRACHLOROETHENE	1	U	
TETRAHYDROFURAN	5	UR	C
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRANS-1,4-DICHLORO-2-BUTENE	5	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL ACETATE	5	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0107	nsample	NTC02GW0107	nsample	NTC02GW0107
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-01	lab_id	0805165-01	lab_id	0805165-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.25	J	P
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.32	J	P
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.088	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.02	J	P
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	9.3		
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0207	nsample	NTC02GW0207	nsample	NTC02GW0207
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805207-01	lab_id	0805207-01	lab_id	0805207-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	A
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.5	U	
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	A
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	A
BENZO(A)PYRENE	0.5	U	A
BENZO(B)FLUORANTHENE	0.5	U	A
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	A
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.91		
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	A
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.029	J	P
DIETHYL PHTHALATE	0.5	U	A
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1.7		
DI-N-OCTYL PHTHALATE	0.59		
FLUORANTHENE	0.5	U	A
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.17	J	P
PHENOL	0.5	U	
PYRENE	0.049	J	P

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0307	nsample	NTC02GW0307	nsample	NTC02GW0307
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805207-02	lab_id	0805207-02	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	A
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.5	U	
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	A
BENZO(A)PYRENE	0.5	U	A
BENZO(B)FLUORANTHENE	0.5	U	A
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	A
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5		
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	A
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	A
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	3.4		
DI-N-OCTYL PHTHALATE	0.59		
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	0.29	J	P

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0407	nsample	NTC02GW0407	nsample	NTC02GW0407
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-02	lab_id	0805165-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.54	U	A
1-METHYLNAPHTHALENE	0.54	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.54	U	
2,4,5-TRICHLOROPHENOL	0.54	U	
2,4,6-TRICHLOROPHENOL	0.54	U	
2,4-DICHLOROPHENOL	0.54	U	
2,4-DIMETHYLPHENOL	1.1	U	
2,4-DINITROPHENOL	5.4	U	
2,4-DINITROTOLUENE	0.54	U	
2,6-DINITROTOLUENE	0.54	U	
2-CHLORONAPHTHALENE	0.54	U	
2-CHLOROPHENOL	0.54	U	
2-METHYLNAPHTHALENE	0.54	U	
2-METHYLPHENOL	0.54	U	
2-NITROANILINE	1.1	U	
2-NITROPHENOL	0.54	U	
3,3'-DICHLOROBENZIDINE	0.54	U	
3-NITROANILINE	1.1	U	
4,6-DINITRO-2-METHYLPHENOL	0.54	U	
4-BROMOPHENYL PHENYL ETHER	0.54	U	
4-CHLORO-3-METHYLPHENOL	0.54	U	
4-CHLOROANILINE	0.45	J	P
4-CHLOROPHENYL PHENYL ETHER	0.54	U	
4-METHYLPHENOL	0.23	J	P
4-NITROANILINE	1.1	U	
4-NITROPHENOL	5.4	U	
ACENAPHTHENE	0.54	U	
ACENAPHTHYLENE	0.54	U	
ACETOPHENONE	0.5	U	A
ANILINE	0.54	U	
ANTHRACENE	0.54	U	
ATRAZINE	0.54	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.58	J	G
BENZO(A)ANTHRACENE	0.54	U	
BENZO(A)PYRENE	0.54	U	
BENZO(B)FLUORANTHENE	0.54	U	
BENZO(G,H,I)PERYLENE	0.54	U	
BENZO(K)FLUORANTHENE	0.54	U	
BIS(2-CHLOROETHOXY)METHANE	0.54	U	
BIS(2-CHLOROETHYL)ETHER	0.54	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.54	U	
BUTYL BENZYL PHTHALATE	1.1	U	
CAPROLACTAM	1.1	U	
CARBAZOLE	0.54	U	
CHRYSENE	0.54	U	
DIBENZO(A,H)ANTHRACENE	0.54	U	
DIBENZOFURAN	0.54	U	
DIETHYL PHTHALATE	0.075	J	P
DIMETHYL PHTHALATE	0.54	U	
DI-N-BUTYL PHTHALATE	1.1	U	
DI-N-OCTYL PHTHALATE	0.54	U	
FLUORANTHENE	0.54	U	
FLUORENE	0.032	J	P
HEXACHLOROBENZENE	0.54	U	
HEXACHLOROBUTADIENE	0.54	U	
HEXACHLOROCYCLOPENTADIENE	0.54	U	
HEXACHLOROETHANE	0.54	U	
INDENO(1,2,3-CD)PYRENE	0.54	U	
ISOPHORONE	0.11	J	P
NAPHTHALENE	0.054	J	P
NITROBENZENE	0.54	U	
N-NITROSO-DI-N-PROPYLAMINE	0.54	U	
N-NITROSODIPHENYLAMINE	0.54	U	
PENTACHLOROPHENOL	1.1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.022	J	P
PHENOL	0.54	U	
PYRENE	0.54	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0507	nsample	NTC02GW0507	nsample	NTC02GW0507
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-03	lab_id	0805165-03	lab_id	0805165-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.04	J	P
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.05	J	P
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.02	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	1.1		
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC02GW0607	nsample	NTC02GW0607	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-04	lab_id	0805165-04	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.019	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	4.8		
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0107	nsample	NTC03GW0107	nsample	NTC03GW0107
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-01	lab_id	0805134-01	lab_id	0805134-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.5	U	
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.05	J	P
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	A
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	A
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	3.3	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.02	J	P
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.03	J	P
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0207	nsample	NTC03GW0207	nsample	NTC03GW0207
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-02	lab_id	0805134-02	lab_id	0805134-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	A
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.021	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2.1		
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	A
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	2.4	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0307	nsample	NTC03GW0307	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-03	lab_id	0805134-03	lab_id	0805134-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.019	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	2.5		
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	3.2	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0407	nsample	NTC03GW0407	nsample	NTC03GW0407
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/5/2008
lab_id	0805103-01	lab_id	0805103-01	lab_id	0805103-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.5	U	
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	A
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	A
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1.8	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.029	J	P
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0507	nsample	NTC03GW0507	nsample	NTC03GW0507
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/5/2008
lab_id	0805103-02	lab_id	0805103-02	lab_id	0805103-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	A
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	UR	D
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	UJ	D
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.03	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	A
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	1	UJ	D
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	3.9	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.02	J	P
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTC03GW0607	nsample	NTC03GW0607	nsample	NTC03GW0607
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-04	lab_id	0805134-04	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.019	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	2.4	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.5	U	
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTCFD050508-01	nsample	NTCFD050508-01	nsample	NTCFD050508-01
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/5/2008
lab_id	0805103-03	lab_id	0805103-03	lab_id	0805103-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.02	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	0.5	U	
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	
CAPROLACTAM	1	U	
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.5	U	
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	3.1	U	A
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.5	U	
FLUORENE	0.5	U	
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.03	J	P
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OS

nsample	NTCFD050708-01	nsample	NTCFD050708-01	nsample	NTCFD050708-01
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-05	lab_id	0805165-05	lab_id	0805165-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	0.5	U	A
1-METHYLNAPHTHALENE	0.5	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.5	U	
2,4,5-TRICHLOROPHENOL	0.5	U	
2,4,6-TRICHLOROPHENOL	0.5	U	
2,4-DICHLOROPHENOL	0.5	U	
2,4-DIMETHYLPHENOL	1	U	
2,4-DINITROPHENOL	5	U	
2,4-DINITROTOLUENE	0.5	U	
2,6-DINITROTOLUENE	0.5	U	
2-CHLORONAPHTHALENE	0.5	U	
2-CHLOROPHENOL	0.5	U	
2-METHYLNAPHTHALENE	0.5	U	
2-METHYLPHENOL	0.5	U	
2-NITROANILINE	1	U	
2-NITROPHENOL	0.5	U	
3,3'-DICHLOROBENZIDINE	0.5	U	
3-NITROANILINE	1	U	
4,6-DINITRO-2-METHYLPHENOL	0.5	U	
4-BROMOPHENYL PHENYL ETHER	0.5	U	
4-CHLORO-3-METHYLPHENOL	0.5	U	
4-CHLOROANILINE	1	U	
4-CHLOROPHENYL PHENYL ETHER	0.5	U	
4-METHYLPHENOL	0.5	U	
4-NITROANILINE	1	U	
4-NITROPHENOL	5	U	
ACENAPHTHENE	0.02	J	P
ACENAPHTHYLENE	0.5	U	
ACETOPHENONE	0.5	U	A
ANILINE	0.5	U	
ANTHRACENE	0.5	U	
ATRAZINE	0.5	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	1.2	J	G
BENZO(A)ANTHRACENE	0.5	U	
BENZO(A)PYRENE	0.5	U	
BENZO(B)FLUORANTHENE	0.5	U	
BENZO(G,H,I)PERYLENE	0.5	U	
BENZO(K)FLUORANTHENE	0.5	U	
BIS(2-CHLOROETHOXY)METHANE	0.5	U	
BIS(2-CHLOROETHYL)ETHER	0.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.5	U	
BUTYL BENZYL PHTHALATE	1	U	A
CAPROLACTAM	1.7		
CARBAZOLE	0.5	U	
CHRYSENE	0.5	U	
DIBENZO(A,H)ANTHRACENE	0.5	U	
DIBENZOFURAN	0.5	U	
DIETHYL PHTHALATE	0.071	J	P
DIMETHYL PHTHALATE	0.5	U	
DI-N-BUTYL PHTHALATE	1	U	
DI-N-OCTYL PHTHALATE	0.5	U	
FLUORANTHENE	0.041	J	P
FLUORENE	0.041	J	P
HEXACHLOROBENZENE	0.5	U	
HEXACHLOROBUTADIENE	0.5	U	
HEXACHLOROCYCLOPENTADIENE	0.5	U	
HEXACHLOROETHANE	0.5	U	
INDENO(1,2,3-CD)PYRENE	0.5	U	
ISOPHORONE	0.5	U	
NAPHTHALENE	0.031	J	P
NITROBENZENE	0.5	U	
N-NITROSO-DI-N-PROPYLAMINE	0.5	U	
N-NITROSODIPHENYLAMINE	0.5	U	
PENTACHLOROPHENOL	1	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	0.5	U	
PHENOL	0.5	U	
PYRENE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805165-01	lab_id	0805207-01	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	CR
4,4'-DDE	0.05	UJ	R
4,4'-DDT	0.05	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.2	UJ	R
AROCLOR-1221	0.2	UJ	R
AROCLOR-1232	0.2	UJ	R
AROCLOR-1242	0.2	UJ	R
AROCLOR-1248	0.2	UJ	R
AROCLOR-1254	0.2	UJ	R
AROCLOR-1260	0.2	UJ	R
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.05	UJ	R
ENDOSULFAN I	0.05	UJ	R
ENDOSULFAN II	0.05	UJ	R
ENDOSULFAN SULFATE	0.05	UJ	R
ENDRIN	0.05	UJ	R
ENDRIN ALDEHYDE	0.05	UJ	R
ENDRIN KETONE	0.05	UJ	CR
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	CR
TOXAPHENE	1	UJ	CR

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	C
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	UJ	C
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	UJ	C
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UR	R
4,4'-DDE	0.05	UR	R
4,4'-DDT	0.05	UR	R
ALDRIN	0.05	UR	R
ALPHA-BHC	0.05	UR	R
ALPHA-CHLORDANE	0.05	UR	R
AROCLOR-1016	0.2	UR	R
AROCLOR-1221	0.2	UR	R
AROCLOR-1232	0.2	UR	R
AROCLOR-1242	0.2	UR	R
AROCLOR-1248	0.2	UR	R
AROCLOR-1254	0.2	UR	R
AROCLOR-1260	0.2	UR	R
BETA-BHC	0.05	UR	R
DELTA-BHC	0.05	UR	R
DIELDRIN	0.05	UR	R
ENDOSULFAN I	0.05	UR	R
ENDOSULFAN II	0.05	UR	R
ENDOSULFAN SULFATE	0.05	UR	R
ENDRIN	0.05	UR	R
ENDRIN ALDEHYDE	0.05	UR	R
ENDRIN KETONE	0.05	UR	R
GAMMA-BHC (LINDANE)	0.05	UR	R
GAMMA-CHLORDANE	0.05	UR	R
HEPTACHLOR	0.05	UR	R
HEPTACHLOR EPOXIDE	0.05	UR	R
METHOXYCHLOR	0.5	UR	R
TOXAPHENE	1	UR	CR

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-03	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	CR
4,4'-DDE	0.05	UJ	R
4,4'-DDT	0.05	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.2	UJ	R
AROCLOR-1221	0.2	UJ	R
AROCLOR-1232	0.2	UJ	R
AROCLOR-1242	0.2	UJ	R
AROCLOR-1248	0.2	UJ	R
AROCLOR-1254	0.2	UJ	R
AROCLOR-1260	0.2	UJ	R
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.05	UJ	R
ENDOSULFAN I	0.05	UJ	R
ENDOSULFAN II	0.05	UJ	R
ENDOSULFAN SULFATE	0.05	UJ	R
ENDRIN	0.05	UJ	R
ENDRIN ALDEHYDE	0.05	UJ	R
ENDRIN KETONE	0.05	UJ	CR
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	CR
TOXAPHENE	1	UJ	CR

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	CR
4,4'-DDE	0.05	UJ	R
4,4'-DDT	0.05	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.2	UJ	R
AROCLOR-1221	0.2	UJ	R
AROCLOR-1232	0.2	UJ	R
AROCLOR-1242	0.2	UJ	R
AROCLOR-1248	0.2	UJ	R
AROCLOR-1254	0.2	UJ	R
AROCLOR-1260	0.2	UJ	R
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.05	UJ	R
ENDOSULFAN I	0.05	UJ	R
ENDOSULFAN II	0.05	UJ	R
ENDOSULFAN SULFATE	0.05	UJ	R
ENDRIN	0.05	UJ	R
ENDRIN ALDEHYDE	0.05	UJ	R
ENDRIN KETONE	0.05	UJ	CR
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	CR
TOXAPHENE	1	UJ	CR

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	CR
4,4'-DDE	0.05	UJ	R
4,4'-DDT	0.05	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.2	UJ	R
AROCLOR-1221	0.2	UJ	R
AROCLOR-1232	0.2	UJ	R
AROCLOR-1242	0.2	UJ	R
AROCLOR-1248	0.2	UJ	R
AROCLOR-1254	0.2	UJ	R
AROCLOR-1260	0.2	UJ	R
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.05	UJ	R
ENDOSULFAN I	0.05	UJ	R
ENDOSULFAN II	0.05	UJ	R
ENDOSULFAN SULFATE	0.05	UJ	R
ENDRIN	0.05	UJ	R
ENDRIN ALDEHYDE	0.05	UJ	R
ENDRIN KETONE	0.05	UJ	CR
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	CR
TOXAPHENE	1	UJ	CR

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-01	lab_id	0805134-02	lab_id	0805134-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	0805103-01	lab_id	0805103-02	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	0805103-03	lab_id	0805165-05
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	U	
4,4'-DDE	0.05	U	
4,4'-DDT	0.05	U	
ALDRIN	0.05	U	
ALPHA-BHC	0.05	U	
ALPHA-CHLORDANE	0.05	U	
AROCLOR-1016	0.2	U	
AROCLOR-1221	0.2	U	
AROCLOR-1232	0.2	U	
AROCLOR-1242	0.2	U	
AROCLOR-1248	0.2	U	
AROCLOR-1254	0.2	U	
AROCLOR-1260	0.2	U	
BETA-BHC	0.05	U	
DELTA-BHC	0.05	U	
DIELDRIN	0.05	U	
ENDOSULFAN I	0.05	U	
ENDOSULFAN II	0.05	U	
ENDOSULFAN SULFATE	0.05	U	
ENDRIN	0.05	U	
ENDRIN ALDEHYDE	0.05	U	
ENDRIN KETONE	0.05	U	
GAMMA-BHC (LINDANE)	0.05	U	
GAMMA-CHLORDANE	0.05	U	
HEPTACHLOR	0.05	U	
HEPTACHLOR EPOXIDE	0.05	U	
METHOXYCHLOR	0.5	U	
TOXAPHENE	1	UJ	C

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.05	UJ	CR
4,4'-DDE	0.05	UJ	R
4,4'-DDT	0.05	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.2	UJ	R
AROCLOR-1221	0.2	UJ	R
AROCLOR-1232	0.2	UJ	R
AROCLOR-1242	0.2	UJ	R
AROCLOR-1248	0.2	UJ	R
AROCLOR-1254	0.2	UJ	R
AROCLOR-1260	0.2	UJ	R
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.05	UJ	R
ENDOSULFAN I	0.05	UJ	R
ENDOSULFAN II	0.05	UJ	R
ENDOSULFAN SULFATE	0.05	UJ	R
ENDRIN	0.05	UJ	R
ENDRIN ALDEHYDE	0.05	UJ	R
ENDRIN KETONE	0.05	UJ	CR
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	CR
TOXAPHENE	1	UJ	CR

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OPEST

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	36606-1	lab_id	36606-6	lab_id	36606-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.49	U	
DIELDRIN	0.49	U	
ENDRIN	0.49	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.49	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.49	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OPEST

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	36606-2	lab_id	36606-3	lab_id	36606-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.2	U	
ALDRIN	0.2	U	
ATRAZINE	0.2	UJ	D
BUTACHLOR	0.49	U	
DIELDRIN	0.49	U	
ENDRIN	0.49	U	
GAMMA-BHC (LINDANE)	0.2	U	
METHOXYCHLOR	0.49	U	
METOLACLOR (DUAL)	0.2	U	
METRIBUZIN	0.2	U	
PROPACHLOR	0.2	U	
SIMAZINE	0.49	UJ	D

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.2	U	
ALDRIN	0.2	U	
ATRAZINE	0.2	U	
BUTACHLOR	0.5	U	
DIELDRIN	0.5	U	
ENDRIN	0.5	U	
GAMMA-BHC (LINDANE)	0.2	U	
METHOXYCHLOR	0.5	U	
METOLACLOR (DUAL)	0.2	U	
METRIBUZIN	0.2	U	
PROPACHLOR	0.2	U	
SIMAZINE	0.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OPEST

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	36506-4	lab_id	36506-5	lab_id	36506-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OPEST

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	36506-1	lab_id	36506-2	lab_id	36506-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.49	U	
DIELDRIN	0.49	U	
ENDRIN	0.49	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.49	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.49	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: OPEST

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	36506-3	lab_id	36606-5
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.2	U	
ALDRIN	0.2	U	
ATRAZINE	0.2	U	
BUTACHLOR	0.49	U	
DIELDRIN	0.49	U	
ENDRIN	0.49	U	
GAMMA-BHC (LINDANE)	0.2	U	
METHOXYCHLOR	0.49	U	
METOLACLOR (DUAL)	0.2	U	
METRIBUZIN	0.2	U	
PROPACHLOR	0.2	U	
SIMAZINE	0.49	U	

Parameter	Result	Val Qual	Qual Code
ALACHLOR	0.19	U	
ALDRIN	0.19	U	
ATRAZINE	0.19	U	
BUTACHLOR	0.48	U	
DIELDRIN	0.48	U	
ENDRIN	0.48	U	
GAMMA-BHC (LINDANE)	0.19	U	
METHOXYCHLOR	0.48	U	
METOLACLOR (DUAL)	0.19	U	
METRIBUZIN	0.19	U	
PROPACHLOR	0.19	U	
SIMAZINE	0.48	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: HERB

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805165-01	lab_id	0805207-01	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: HERB

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-03	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	1.2	J	P
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: HERB

nsample	NTC03GW0107
samp_date	5/6/2008
lab_id	0805134-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

nsample	NTC03GW0207
samp_date	5/6/2008
lab_id	0805134-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

nsample	NTC03GW0307
samp_date	5/6/2008
lab_id	0805134-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: HERB

nsample	NTC03GW0407
samp_date	5/5/2008
lab_id	0805103-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

nsample	NTC03GW0507
samp_date	5/5/2008
lab_id	0805103-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

nsample	NTC03GW0607
samp_date	5/6/2008
lab_id	0805134-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	2	U	
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: HERB

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	0805103-03	lab_id	0805165-05
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	UJ	H
2,4,5-TP (SILVEX)	0.2	UJ	H
2,4-D	2	UJ	H
2,4-DB	2	UJ	H
DALAPON	2	UJ	H
DICAMBA	0.2	UJ	H
DICHLOROPROP	2	UJ	H
DINOSEB	1	UJ	H
MCPA	200	UJ	H
MCPP	200	UJ	H

Parameter	Result	Val Qual	Qual Code
2,4,5-T	0.2	U	
2,4,5-TP (SILVEX)	0.2	U	
2,4-D	2	U	
2,4-DB	0.83	J	P
DALAPON	2	U	
DICAMBA	0.2	U	
DICHLOROPROP	2	U	
DINOSEB	1	U	
MCPA	200	U	
MCPP	200	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: CARPEST

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	36606-1	lab_id	36606-6	lab_id	36606-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: CARPEST

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	36606-2	lab_id	36606-3	lab_id	36606-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: CARPEST

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	36506-4	lab_id	36506-5	lab_id	36506-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: CARPEST

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	36506-1	lab_id	36506-2	lab_id	36506-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: CARPEST

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	36506-3	lab_id	36606-5
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

Parameter	Result	Val Qual	Qual Code
3-HYDROXYCARBOFURAN	2.5	U	
ALDICARB	2.5	U	
ALDICARB SULFONE	2.5	U	
ALDICARB SULFOXIDE	2.5	U	
CARBARYL	2.5	U	
CARBOFURAN	2.5	U	
METHOMYL	2.5	U	
OXAMYL	2.5	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PET

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805165-01	lab_id	0805207-01	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	1.1	J	P

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PET

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-03	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PET

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-01	lab_id	0805134-02	lab_id	0805134-03
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PET

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	0805103-01	lab_id	0805103-02	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	1.1	J	P

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: PET

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	0805103-03	lab_id	0805165-05
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Parameter	Result	Val Qual	Qual Code
OIL & GREASE - HEM	0.830000	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: [redacted] **DATE:** **JULY 10, 2008**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TOTAL AND DISSOLVED METALS, AMMONIA, COD, CHLORIDE, CYANIDE, FLUORIDE, SULFATE, TOC, TOTAL PHENOLICS, TOTAL PHOSPHORUS, TOTAL RESIDUE, TOTAL SUSPENDED SOLIDS**
NTC GREAT LAKES CTO 478
SAMPLE DELIVERY GROUP (SDG) – 0805103

SAMPLES: 14/Aqueous/

NTC02GW0107	NTC02GW0207	NTC02GW0307
NTC02GW0407	NTC02GW0507	NTC02GW0607
NTC03GW0107	NTC03GW0207	NTC03GW0307
NTC03GW0407	NTC03GW0507	NTC03GW0607
NTCFD050508-01	NTCFD050708-01	

Overview

The sample set for NTC Great Lakes CTO 478, SDG 0805103, consists of fourteen (14) aqueous environmental samples. Two (2) field duplicate pairs (NTC03GW0407 / NTCFD050508-01 and NTC02GW0407 / NTCFD050708-01) were included within this SDG.

All samples were analyzed for total target analyte list (TAL) metals, ammonia, chemical oxygen demand (COD), chloride, cyanide, fluoride, sulfate, total organic carbon (TOC), total phenolics, total phosphorus, total residue and total suspended solids. Samples NTC02GW0207, NTC02GW0307, NTC02GW0507, NTC02GW0607, NTC03GW0107, NTC03GW0307 and NTC03GW0607 were also analyzed for dissolved TAL metals. The samples were collected by Tetra Tech NUS on May 5, 6, 7 and 8, 2008 and analyzed by TriMatrix Laboratories, Inc. Metals analyses were conducted using SW-846 method 6020A. Mercury analyses were conducted using SW-846 method 7470A. Total residue and total suspended solids analyses were conducted using SM 2540. Fluoride, ammonia and total phosphorus analyses were conducted using SM 4500. COD analyses were conducted using SM 5220. Total phenolics analyses were conducted using EPA method 420.1. Chloride and sulfate analyses were conducted using EPA method 300.0. TOC analyses were conducted using SM 5310. Cyanide analyses were conducted using EPA method 9014.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial and Continuing Calibrations
• Laboratory Method / Preparation Blanks
* • ICP Interference Analysis
* • Laboratory Control Sample Results
• Matrix Spike Results
* • Laboratory Duplicate Results
• Field Duplicate Results

* • ICP Serial Dilution Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B. Appendix C contains the documentation to support the findings as discussed in this validation report.

Laboratory Method / Preparation Blanks

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Antimony(1)	0.445 ug/L	2.225 ug/L
Antimony(3)	0.911 ug/L	4.555 ug/L
Chromium(5)	0.127 ug/L	0.635 ug/L
Selenium(2)	0.0739 ug/L	0.3695 ug/L
Zinc(1)	19.9 ug/L	99.5 ug/L
Zinc(4)	18.1 ug/L	90.5 ug/L
COD(7)	14.9 mg/L	74.5 mg/L
Cyanide	0.00313 mg/L	0.01565 mg/L
Total Organic Carbon(6)	0.305 mg/L	1.525 mg/L

(1) Maximum concentration present in a preparation blank affecting the total metals.
(2) Maximum concentration affecting total metals.
(3) Maximum concentration present in a preparation blank affecting samples NTC02GW0207 (dissolved) and NTC02GW0307 (dissolved).
(4) Maximum concentration present in a preparation blank affecting samples NTC02GW0507 (dissolved), NTC02GW0607 (dissolved), NTC03GW0107 (dissolved), NTC03GW0307 (dissolved) and NTC03GW0607 (dissolved).
(5) Maximum concentration affecting the dissolved metals.
(6) Maximum concentration affecting all samples except NTC02GW0207 and NTC02GW0307.
(7) Maximum concentration affecting samples NTC03GW0507, NTC02GW0407, NTCFD050708-01 and NTC02GW0307.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level reported for antimony, zinc, COD and cyanide were qualified "U" as a result of laboratory blank contamination.

Matrix Spike Results

The matrix spike percent / matrix spike duplicate percent recoveries for dissolved silver were < 75% quality control limit. The nondetected results reported for dissolved silver were qualified as estimated, "UJ".

Field Duplicate Results

Field duplicate imprecision (RPD > 30%) was noted for sample pair NTC03GW0407 / NTCFD050508-01 for iron and nickel. The positive results reported for iron and nickel in the affected sample pair were qualified as estimated, "J".

Notes

It was noted in the case narrative that sample NTC02GW0407 was preserved to the improper pH for the total phenolics analysis. The nondetected result was qualified as estimated, "UJ".

The original nondetected results on the EDD were reported to the method reporting limit. The nondetected results reported on the EDD were amended to reflect the method detection limits (MDL).

Several Contract Required Detection Limit (CRDL) percent recoveries for antimony, potassium and zinc were outside the 90-110% quality control limits. However, no validation actions are required for CRDL noncompliances.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

Other Factors Affecting Data Quality: The matrix spike percent / matrix spike duplicate percent recoveries for dissolved silver were < 75% quality control limit. Field duplicate imprecision (RPD > 30%) was noted for sample pair NTC03GW0407 / NTCFD050508-01 for iron and nickel. Sample NTC02GW0407 was preserved to the improper pH for the total phenolics analysis.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004, and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (Jan 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DOD QSM."

Terri L. Solomon

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Edward Sedlayo

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: M

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805165-01	lab_id	0805207-01	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.36	U	A
ARSENIC	0.26		
BARIUM	29		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	140000		
CHROMIUM	0.61		
COBALT	0.25		
COPPER	1.3		
IRON	23		
LEAD	0.29	U	
MAGNESIUM	160000		
MANGANESE	15		
MERCURY	0.046	U	
NICKEL	5.8		
POTASSIUM	4000		
SELENIUM	0.37		
SILVER	0.061	U	
SODIUM	67000		
THALLIUM	0.05	U	
VANADIUM	0.43		
ZINC	5.4	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	6900		
ANTIMONY	0.32	U	
ARSENIC	3.5		
BARIUM	84		
BERYLLIUM	0.33		
CADMIUM	0.13		
CALCIUM	44000		
CHROMIUM	9.3		
COBALT	3.9		
COPPER	7.5		
IRON	7300		
LEAD	3.5		
MAGNESIUM	29000		
MANGANESE	120		
MERCURY	0.046	U	
NICKEL	12		
POTASSIUM	4300		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	60000		
THALLIUM	0.099		
VANADIUM	11		
ZINC	16	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.32	U	
ARSENIC	14		
BARIUM	340		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	170000		
CHROMIUM	0.33	U	
COBALT	4.3		
COPPER	0.63		
IRON	16000		
LEAD	0.29	U	
MAGNESIUM	89000		
MANGANESE	83		
MERCURY	0.046	U	
NICKEL	22		
POTASSIUM	2100		
SELENIUM	1.8		
SILVER	0.061	U	
SODIUM	76000		
THALLIUM	0.05	U	
VANADIUM	0.27	U	
ZINC	7	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: M

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-03	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.93	U	A
ARSENIC	8		
BARIUM	1100		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	200000		
CHROMIUM	2.2		
COBALT	7.4		
COPPER	0.91		
IRON	13000		
LEAD	0.29	U	
MAGNESIUM	130000		
MANGANESE	140		
MERCURY	0.046	U	
NICKEL	19		
POTASSIUM	28000		
SELENIUM	3.9		
SILVER	0.061	U	
SODIUM	330000		
THALLIUM	0.05	U	
VANADIUM	1.8		
ZINC	4.1	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1200		
ANTIMONY	0.32	U	
ARSENIC	5.2		
BARIUM	42		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	74000		
CHROMIUM	1.7		
COBALT	1.2		
COPPER	2.5		
IRON	1500		
LEAD	1.2		
MAGNESIUM	56000		
MANGANESE	33		
MERCURY	0.046	U	
NICKEL	8.5		
POTASSIUM	2200		
SELENIUM	0.58		
SILVER	0.061	U	
SODIUM	47000		
THALLIUM	0.05	U	
VANADIUM	1.9		
ZINC	15	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	5000		
ANTIMONY	0.32	U	
ARSENIC	1.7		
BARIUM	99		
BERYLLIUM	0.23	U	
CADMIUM	0.16		
CALCIUM	140000		
CHROMIUM	6.4		
COBALT	2.8		
COPPER	6.6		
IRON	5400		
LEAD	2.6		
MAGNESIUM	73000		
MANGANESE	170		
MERCURY	0.046	U	
NICKEL	14		
POTASSIUM	4500		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	52000		
THALLIUM	0.21		
VANADIUM	8.2		
ZINC	17	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: M

nsample	NTC03GW0107
samp_date	5/6/2008
lab_id	0805134-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	41		
ANTIMONY	0.32	U	
ARSENIC	0.93		
BARIUM	53		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	170000		
CHROMIUM	0.76		
COBALT	1.1		
COPPER	1.6		
IRON	2300		
LEAD	0.4		
MAGNESIUM	83000		
MANGANESE	170		
MERCURY	0.046	U	
NICKEL	3		
POTASSIUM	1400		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	33000		
THALLIUM	0.05	U	
VANADIUM	0.54		
ZINC	5.4	U	A

nsample	NTC03GW0207
samp_date	5/6/2008
lab_id	0805134-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	890		
ANTIMONY	0.42	U	A
ARSENIC	3.9		
BARIUM	62		
BERYLLIUM	0.23	U	
CADMIUM	0.11	U	
CALCIUM	58000		
CHROMIUM	2.2		
COBALT	0.56		
COPPER	1.5		
IRON	1000		
LEAD	0.57		
MAGNESIUM	93000		
MANGANESE	43		
MERCURY	0.046	U	
NICKEL	2.7		
POTASSIUM	3500		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	300000		
THALLIUM	0.05	U	
VANADIUM	1.7		
ZINC	8.3	U	A

nsample	NTC03GW0307
samp_date	5/6/2008
lab_id	0805134-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1000		
ANTIMONY	0.32	U	
ARSENIC	2.2		
BARIUM	22		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	85000		
CHROMIUM	1.9		
COBALT	0.64		
COPPER	4		
IRON	1900		
LEAD	0.55		
MAGNESIUM	79000		
MANGANESE	47		
MERCURY	0.046	U	
NICKEL	3.4		
POTASSIUM	2800		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	53000		
THALLIUM	0.055		
VANADIUM	2		
ZINC	8.5	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: M

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	0805103-01	lab_id	0805103-02	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.54	U	A
ARSENIC	0.3		
BARIUM	75		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	88000		
CHROMIUM	0.51		
COBALT	0.93		
COPPER	2.5		
IRON	110	J	G
LEAD	0.29	U	
MAGNESIUM	57000		
MANGANESE	35		
MERCURY	0.046	U	
NICKEL	6.2	J	G
POTASSIUM	2100		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	41000		
THALLIUM	0.074		
VANADIUM	0.27	U	
ZINC	6.4	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.43	U	A
ARSENIC	0.7		
BARIUM	380		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	220000		
CHROMIUM	0.72		
COBALT	2.1		
COPPER	0.89		
IRON	16000		
LEAD	0.29	U	
MAGNESIUM	93000		
MANGANESE	460		
MERCURY	0.046	U	
NICKEL	10		
POTASSIUM	7100		
SELENIUM	1.3		
SILVER	0.061	U	
SODIUM	100000		
THALLIUM	0.05	U	
VANADIUM	0.84		
ZINC	4.9	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	230		
ANTIMONY	0.32	U	
ARSENIC	25		
BARIUM	99		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	150000		
CHROMIUM	0.56		
COBALT	0.96		
COPPER	1.4		
IRON	29000		
LEAD	0.43		
MAGNESIUM	53000		
MANGANESE	780		
MERCURY	0.046	U	
NICKEL	2.7		
POTASSIUM	1000		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	48000		
THALLIUM	0.05	U	
VANADIUM	1.1		
ZINC	7.3	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: M

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	0805103-03	lab_id	0805165-05
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:	NTC03GW0407	DUP_OF:	NTC02GW0407

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.58	U	A
ARSENIC	0.44		
BARIUM	72		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	82000		
CHROMIUM	0.37		
COBALT	0.77		
COPPER	1.6		
IRON	250	J	G
LEAD	0.29	U	
MAGNESIUM	57000		
MANGANESE	31		
MERCURY	0.046	U	
NICKEL	3.4	J	G
POTASSIUM	2000		
SELENIUM	0.30	U	
SILVER	0.061	U	
SODIUM	35000		
THALLIUM	0.06		
VANADIUM	0.27	U	
ZINC	6.2	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.95	U	A
ARSENIC	6.3		
BARIUM	1300		
BERYLLIUM	0.23	U	
CADMIUM	0.11	U	
CALCIUM	210000		
CHROMIUM	2.4		
COBALT	8.1		
COPPER	0.92		
IRON	13000		
LEAD	0.29	U	
MAGNESIUM	150000		
MANGANESE	140		
MERCURY	0.046	U	
NICKEL	20		
POTASSIUM	37000		
SELENIUM	4.6		
SILVER	0.061	U	
SODIUM	380000		
THALLIUM	0.05	U	
VANADIUM	2.1		
ZINC	12	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MF

nsample	NTC02GW0207	nsample	NTC02GW0307	nsample	NTC02GW0507
samp_date	5/8/2008	samp_date	5/8/2008	samp_date	5/7/2008
lab_id	0805207-01	lab_id	0805207-02	lab_id	0805165-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.32	U	
ARSENIC	2.9		
BARIUM	53		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	33000		
CHROMIUM	1.2		
COBALT	0.17		
COPPER	0.84		
IRON	9.6	U	
LEAD	0.29	U	
MAGNESIUM	24000		
MANGANESE	7.5		
MERCURY	0.046	U	
NICKEL	1.4		
POTASSIUM	1300		
SELENIUM	0.62		
SILVER	0.061	UJ	D
SODIUM	62000		
THALLIUM	0.05	U	
VANADIUM	0.56		
ZINC	2.1		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.32	U	
ARSENIC	11		
BARIUM	320		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	190000		
CHROMIUM	2.7		
COBALT	4.3		
COPPER	0.6		
IRON	16000		
LEAD	0.29	U	
MAGNESIUM	97000		
MANGANESE	85		
MERCURY	0.046	U	
NICKEL	22		
POTASSIUM	2100		
SELENIUM	1.1		
SILVER	0.061	UJ	D
SODIUM	85000		
THALLIUM	0.086		
VANADIUM	3.9		
ZINC	8.8		

Parameter	Result	Val Qual	Qual Code
ALUMINUM	20	U	
ANTIMONY	0.32	U	
ARSENIC	4.7		
BARIUM	35		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	68000		
CHROMIUM	0.87		
COBALT	0.71		
COPPER	0.74		
IRON	330		
LEAD	0.29	U	
MAGNESIUM	54000		
MANGANESE	11		
MERCURY	0.046	U	
NICKEL	4.6		
POTASSIUM	1600		
SELENIUM	0.30	U	
SILVER	0.061	UJ	D
SODIUM	45000		
THALLIUM	0.05	U	
VANADIUM	0.3		
ZINC	7.4	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MF

nsample	NTC02GW0607	nsample	NTC03GW0107	nsample	NTC03GW0307
samp_date	5/7/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805165-04	lab_id	0805134-01	lab_id	0805134-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	31		
ANTIMONY	0.32	U	
ARSENIC	0.35		
BARIUM	76		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	120000		
CHROMIUM	0.97		
COBALT	0.29		
COPPER	1.5		
IRON	9.6	U	
LEAD	0.29	U	
MAGNESIUM	67000		
MANGANESE	51		
MERCURY	0.046	U	
NICKEL	4.7		
POTASSIUM	2400		
SELENIUM	0.30	U	
SILVER	0.061	UJ	D
SODIUM	51000		
THALLIUM	0.092		
VANADIUM	0.51		
ZINC	6.1	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	26		
ANTIMONY	0.41		
ARSENIC	0.64		
BARIUM	47		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	170000		
CHROMIUM	0.33	U	
COBALT	1.1		
COPPER	0.83		
IRON	740		
LEAD	0.29	U	
MAGNESIUM	83000		
MANGANESE	150		
MERCURY	0.046	U	
NICKEL	2.9		
POTASSIUM	1400		
SELENIUM	0.30	U	
SILVER	0.061	UJ	D
SODIUM	33000		
THALLIUM	0.05	U	
VANADIUM	0.35		
ZINC	11	U	A

Parameter	Result	Val Qual	Qual Code
ALUMINUM	46		
ANTIMONY	0.55		
ARSENIC	1.6		
BARIUM	18		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	80000		
CHROMIUM	0.99		
COBALT	0.21		
COPPER	0.76		
IRON	710		
LEAD	0.29	U	
MAGNESIUM	75000		
MANGANESE	27		
MERCURY	0.046	U	
NICKEL	2.2		
POTASSIUM	2500		
SELENIUM	0.30	U	
SILVER	0.061	UJ	D
SODIUM	51000		
THALLIUM	0.05	U	
VANADIUM	0.35		
ZINC	5.1	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MF

nsample	NTC03GW0607
samp_date	5/6/2008
lab_id	0805134-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	27		
ANTIMONY	0.32	U	
ARSENIC	5.5		
BARIUM	51		
BERYLLIUM	0.23	U	
CADMIUM	0.056	U	
CALCIUM	160000		
CHROMIUM	0.66		
COBALT	0.85		
COPPER	0.88		
IRON	6400		
LEAD	0.29	U	
MAGNESIUM	55000		
MANGANESE	760		
MERCURY	0.046	U	
NICKEL	2.1		
POTASSIUM	1100		
SELENIUM	0.30	U	
SILVER	0.061	UJ	D
SODIUM	50000		
THALLIUM	0.05	U	
VANADIUM	0.3		
ZINC	7.9	U	A

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	0805165-01	lab_id	0805207-01	lab_id	0805207-02
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.004	U	
CARBON	MG/L	2.3		
CHEMICAL OXYGEN DEMAND	MG/L	3.4		
CHLORIDE	MG/L	47		
CYANIDE	MG/L	0.0028	U	A
FLUORIDE	MG/L	0.48		
SULFATE	MG/L	580		
TOTAL DISSOLVED RESIDUE	MG/L	1400		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.012		
TOTAL RESIDUE	MG/L	3.3	U	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.35		
CARBON	MG/L	1.4		
CHEMICAL OXYGEN DEMAND	MG/L	11		
CHLORIDE	MG/L	61		
CYANIDE	MG/L	0.0024	U	A
FLUORIDE	MG/L	0.74		
SULFATE	MG/L	140		
TOTAL DISSOLVED RESIDUE	MG/L	470		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.1		
TOTAL RESIDUE	MG/L	80		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.17		
CARBON	MG/L	0.16	U	
CHEMICAL OXYGEN DEMAND	MG/L	53	U	A
CHLORIDE	MG/L	150		
CYANIDE	MG/L	0.0032	U	A
FLUORIDE	MG/L	0.25		
SULFATE	MG/L	20		
TOTAL DISSOLVED RESIDUE	MG/L	1100		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.039		
TOTAL RESIDUE	MG/L	37		

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	0805165-02	lab_id	0805165-03	lab_id	0805165-04
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	27		
CARBON	MG/L	43		
CHEMICAL OXYGEN DEMAND	MG/L	150		
CHLORIDE	MG/L	450		
CYANIDE	MG/L	0.0033	U	A
FLUORIDE	MG/L	0.16		
SULFATE	MG/L	46		
TOTAL DISSOLVED RESIDUE	MG/L	1900		
TOTAL PHENOLICS	MG/L	0.0048	UJ	M
TOTAL PHOSPHORUS	MG/L	0.21		
TOTAL RESIDUE	MG/L	31		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.41		
CARBON	MG/L	6		
CHEMICAL OXYGEN DEMAND	MG/L	15		
CHLORIDE	MG/L	36		
CYANIDE	MG/L	0.0026	U	A
FLUORIDE	MG/L	0.51		
SULFATE	MG/L	180		
TOTAL DISSOLVED RESIDUE	MG/L	580		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.026		
TOTAL RESIDUE	MG/L	33		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.14		
CARBON	MG/L	2.6		
CHEMICAL OXYGEN DEMAND	MG/L	7		
CHLORIDE	MG/L	29		
CYANIDE	MG/L	0.0028	U	A
FLUORIDE	MG/L	0.35		
SULFATE	MG/L	260		
TOTAL DISSOLVED RESIDUE	MG/L	850		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.052		
TOTAL RESIDUE	MG/L	43		

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	0805134-01	lab_id	0805134-02	lab_id	0805134-03
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.17		
CARBON	MG/L	4.3		
CHEMICAL OXYGEN DEMAND	MG/L	11		
CHLORIDE	MG/L	18		
CYANIDE	MG/L	0.0032	U	A
FLUORIDE	MG/L	0.4		
SULFATE	MG/L	340		
TOTAL DISSOLVED RESIDUE	MG/L	950		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.035		
TOTAL RESIDUE	MG/L	6.5		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.35		
CARBON	MG/L	2.1		
CHEMICAL OXYGEN DEMAND	MG/L	6.1		
CHLORIDE	MG/L	590		
CYANIDE	MG/L	0.0032	U	A
FLUORIDE	MG/L	0.44		
SULFATE	MG/L	120		
TOTAL DISSOLVED RESIDUE	MG/L	1300		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.02		
TOTAL RESIDUE	MG/L	52		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.56		
CARBON	MG/L	1.9		
CHEMICAL OXYGEN DEMAND	MG/L	4.1		
CHLORIDE	MG/L	28		
CYANIDE	MG/L	0.003	U	A
FLUORIDE	MG/L	0.67		
SULFATE	MG/L	280		
TOTAL DISSOLVED RESIDUE	MG/L	730		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.024		
TOTAL RESIDUE	MG/L	38		

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC03GW0407	nsample	NTC03GW0507	nsample	NTC03GW0607
samp_date	5/5/2008	samp_date	5/5/2008	samp_date	5/6/2008
lab_id	0805103-01	lab_id	0805103-02	lab_id	0805134-04
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.18		
CARBON	MG/L	2.6		
CHEMICAL OXYGEN DEMAND	MG/L	5.1		
CHLORIDE	MG/L	23		
CYANIDE	MG/L	0.0034	U	A
FLUORIDE	MG/L	0.58		
SULFATE	MG/L	87		
TOTAL DISSOLVED RESIDUE	MG/L	570		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.026		
TOTAL RESIDUE	MG/L	3.3	U	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	16		
CARBON	MG/L	17		
CHEMICAL OXYGEN DEMAND	MG/L	54	U	A
CHLORIDE	MG/L	140		
CYANIDE	MG/L	0.0039	U	A
FLUORIDE	MG/L	0.24		
SULFATE	MG/L	180		
TOTAL DISSOLVED RESIDUE	MG/L	1200		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.22		
TOTAL RESIDUE	MG/L	31		

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.24		
CARBON	MG/L	7		
CHEMICAL OXYGEN DEMAND	MG/L	7.4		
CHLORIDE	MG/L	78		
CYANIDE	MG/L	0.003	U	A
FLUORIDE	MG/L	0.32		
SULFATE	MG/L	180		
TOTAL DISSOLVED RESIDUE	MG/L	790		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	1.3		
TOTAL RESIDUE	MG/L	72		

PROJ_NO: 01050

SDG: 0805103 MEDIA: WATER DATA FRACTION: MISC

nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	0805103-03	lab_id	0805165-05
qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids	
DUP_OF:	NTC03GW0407	DUP_OF:	NTC02GW0407

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	0.17		
CARBON	MG/L	2.2		
CHEMICAL OXYGEN DEMAND	MG/L	4		
CHLORIDE	MG/L	19		
CYANIDE	MG/L	0.0034	U	A
FLUORIDE	MG/L	0.59		
SULFATE	MG/L	88		
TOTAL DISSOLVED RESIDUE	MG/L	550		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.019		
TOTAL RESIDUE	MG/L	3.3	U	

Parameter	units	Result	Val Qual	Qual Code
AMMONIA	MG/L	37		
CARBON	MG/L	46		
CHEMICAL OXYGEN DEMAND	MG/L	160		
CHLORIDE	MG/L	480		
CYANIDE	MG/L	0.0036	U	A
FLUORIDE	MG/L	0.15		
SULFATE	MG/L	39		
TOTAL DISSOLVED RESIDUE	MG/L	2000		
TOTAL PHENOLICS	MG/L	0.0048	U	
TOTAL PHOSPHORUS	MG/L	0.26		
TOTAL RESIDUE	MG/L	33		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: [redacted] **DATE:** **JULY 15, 2008**

FROM: **MATTHEW D. KRAUS** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC/ORGANIC DATA VALIDATION – MISCELLANEOUS**
NTC GREAT LAKES – CTO 478
SDG – 500-11079-1

SAMPLES: 14/Aqueous/

NTC02GW0107	NTC02GW0207	NTC02GW0307
NTC02GW0407	NTC02GW0507	NTC02GW0607
NTC03GW0107	NTC03GW0207	NTC03GW0307
NTC03GW0407	NTC03GW0507	NTC03GW0607
NTCFD050508-01	NTCFD050708-01	

Overview

The sample sets for NTC Great Lakes, CTO 478, SDG 500-11079-1, consists of fourteen aqueous environmental samples. Two field duplicate pairs (NTCFD050508-01/ NTC03GW0407) and (NTCFD050708-01 / NTC02GW0407) are included in this SDG.

All of the samples in SDG 500-11079-1 were analyzed for biochemical oxygen demand (BOD), total nitrate/nitrite as nitrogen, nitrate as nitrogen, nitrite as nitrogen, hexavalent chromium and fecal coliform. Samples were collected by Tetra Tech NUS from May 5th-8th, 2008 and analyzed by TestAmerica Laboratories Inc. under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. TestAmerica Laboratories Inc. subcontracted Lake County Public Works Laboratory to perform the fecal coliform analyses.

BOD and fecal coliform were analyzed in accordance with the "Standard Methods for the Examination of Water and Wastewater", 20th Edition (SM20), standard method (SM) 5210B and SM18th 9222D, respectively. Total nitrate/nitrite as nitrogen, nitrate as nitrogen, nitrite as nitrogen and hexavalent chromium were determined by USEPA method 353.2, calculation, USEPA method 354.1, and SM20 SM 3500 CR B, respectively.

Data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Method/Preparation Blank Analyses
• Matrix Spike/Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
• Field Duplicate Precision Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminant was detected in the laboratory method/preparation blanks at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Nitrate/Nitrite as Nitrite	0.084 mg/L	0.42 mg/L

(1) Maximum contaminant level was found in a laboratory preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Nitrate/Nitrite as nitrogen was qualified due to laboratory blank contamination.

Matrix Spike Recoveries

The matrix spike (MS) percent recoveries for three of the four MS analyses performed for hexavalent chromium were less than the lower quality control limit of 75% but greater than 30%. All hexavalent chromium results were qualified as estimated, "J", due to matrix spike noncompliance.

Notes

According to the laboratory case narrative, the BOD method blanks for batches 3700 and 37705 read back slightly high in dissolved oxygen after the five day incubation period, most likely due to calibration variability. No data was qualified because the effect on the environmental samples is not known and the LCS percent recovery (%R) for BOD was within quality control limits.

Field Duplicate Precision

Field duplicate imprecision (difference between samples results > 2X CRDL when one sample result is < 5X CRDL) was noted for BOD in the field duplicate pair (NTCFD050708-01 / NTC02GW0407). The positive BOD results reported for samples NTCFD050708-01 and NTC02GW0407 were qualified as estimated, "J".

Executive Summary

Laboratory Performance: Nitrate/Nitrite as nitrogen was qualified due to laboratory blank contamination.

Other Factors Affecting Data Quality: Hexavalent chromium results were qualified due to matrix spike noncompliance. BOD results were qualified due to field duplicate precision.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review", October 2004 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A	= Lab Blank Contamination
B	= Field Blank Contamination
C	= Calibration Noncompliance (e.g. %RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	= GC/MS Tuning Noncompliance
D	= MS/MSD Recovery Noncompliance
E	= LCS/LCSD Recovery Noncompliance
F	= Laboratory Duplicate Imprecision
G	= Field Duplicate Imprecision
H	= Holding Time Exceedance
I	= ICP Serial Dilution Noncompliance
J	= GFAA PDS – GFAA MSA's r <0.995 / ICP PDS Recovery Noncompliance
K	= IPC Interference – included ICS %R Noncompliance
L	= Instrument Calibration Range Exceedance
M	= Sample Preservation Noncompliance
N	= Internal Standard Noncompliance
N01	= Internal Standard Recovery Noncompliance Dioxins
N02	= Recovery Standard Noncompliance Dioxins
N03	= Clean-up Standard Noncompliance Dioxins
O	= Poor Instrument Performance (e.g. base-line drifting)
P	= Uncertainty near detection limit (< 2 x IDL for inorganics and < CRDL for organics)
Q	= Other problems (can encompass a number of issues; e.g. chromatography, interferences, etc.)
R	= Surrogate Recovery Noncompliance
S	= Pesticide/PCB Resolution
T	= % Breakdown Noncompliance for DDT and Endrin
U	= % Difference between columns/detectors > 25% for positive results determined via GC/HPLC
V	= Non-linear calibrations; correlation coefficient r < 0.995
W	= EMPC result
X	= Signal to noise response drop
Y	= Percent solids <30%
Z	= Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01050

SDG: 500-11079-1 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC02GW0107	nsample	NTC02GW0207	nsample	NTC02GW0307
samp_date	5/7/2008	samp_date	5/8/2008	samp_date	5/8/2008
lab_id	11079-8	lab_id	11079-13	lab_id	11079-14
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.28		
NITRITE/NITRATE-N	MG/L	0.28	U	A
NITRITE-N	MG/L	0.0029	U	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.018	J	P
NITRITE/NITRATE-N	MG/L	0.022	U	A
NITRITE-N	MG/L	0.0037	J	P

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.7		
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.022	J	P
NITRITE/NITRATE-N	MG/L	0.022	U	A
NITRITE-N	MG/L	0.0029	U	

PROJ_NO: 01050

SDG: 500-11079-1 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC02GW0407	nsample	NTC02GW0507	nsample	NTC02GW0607
samp_date	5/7/2008	samp_date	5/7/2008	samp_date	5/7/2008
lab_id	11079-10	lab_id	11079-9	lab_id	11079-11
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	8.8	J	G
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0047	J	D
NITRATE-N	MG/L	0.024	J	P
NITRITE/NITRATE-N	MG/L	0.028	U	A
NITRITE-N	MG/L	0.0037	J	P

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0082	J	D
NITRATE-N	MG/L	0.022	J	P
NITRITE/NITRATE-N	MG/L	0.022	U	A
NITRITE-N	MG/L	0.0029	U	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.048	J	P
NITRITE/NITRATE-N	MG/L	0.053	U	A
NITRITE-N	MG/L	0.005	J	P

PROJ_NO: 01050

SDG: 500-11079-1 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC03GW0107	nsample	NTC03GW0207	nsample	NTC03GW0307
samp_date	5/6/2008	samp_date	5/6/2008	samp_date	5/6/2008
lab_id	11079-6	lab_id	11079-4	lab_id	11079-5
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	8.4		
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.034	J	P
NITRITE/NITRATE-N	MG/L	0.034	U	A
NITRITE-N	MG/L	0.0029	U	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.039	J	P
NITRITE/NITRATE-N	MG/L	0.039	U	A
NITRITE-N	MG/L	0.0029	U	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	8.3		
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.054	J	P
NITRITE/NITRATE-N	MG/L	0.054	U	A
NITRITE-N	MG/L	0.0029	U	

PROJ_NO: 01050

SDG: 500-11079-1 MEDIA: WATER DATA FRACTION: MISC

nsample	NTC03GW0407
samp_date	5/5/2008
lab_id	11079-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.26		
NITRITE/NITRATE-N	MG/L	0.26	U	A
NITRITE-N	MG/L	0.0029	U	

nsample	NTC03GW0507
samp_date	5/5/2008
lab_id	11079-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.064	J	P
NITRITE/NITRATE-N	MG/L	0.064	U	A
NITRITE-N	MG/L	0.0029	U	

nsample	NTC03GW0607
samp_date	5/6/2008
lab_id	11079-7
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0073	J	D
NITRATE-N	MG/L	0.024	J	P
NITRITE/NITRATE-N	MG/L	0.027	U	A
NITRITE-N	MG/L	0.003	J	P

PROJ_NO: 01050

SDG: 500-11079-1 MEDIA: WATER DATA FRACTION: MISC

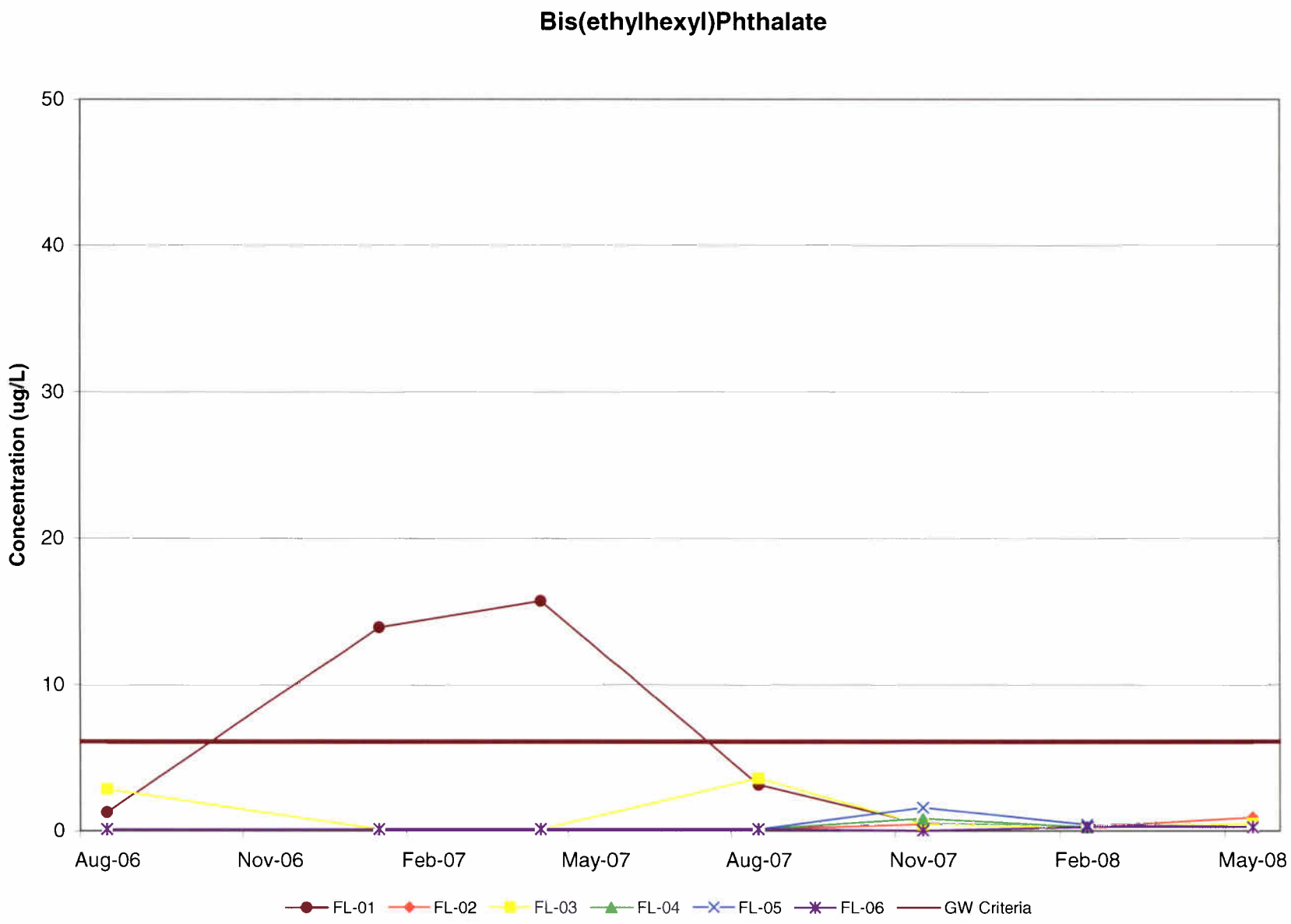
nsample	NTCFD050508-01	nsample	NTCFD050708-01
samp_date	5/5/2008	samp_date	5/7/2008
lab_id	11079-3	lab_id	11079-12
qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids	
DUP_OF:	NTC03GW0407	DUP_OF:	NTC02GW0407

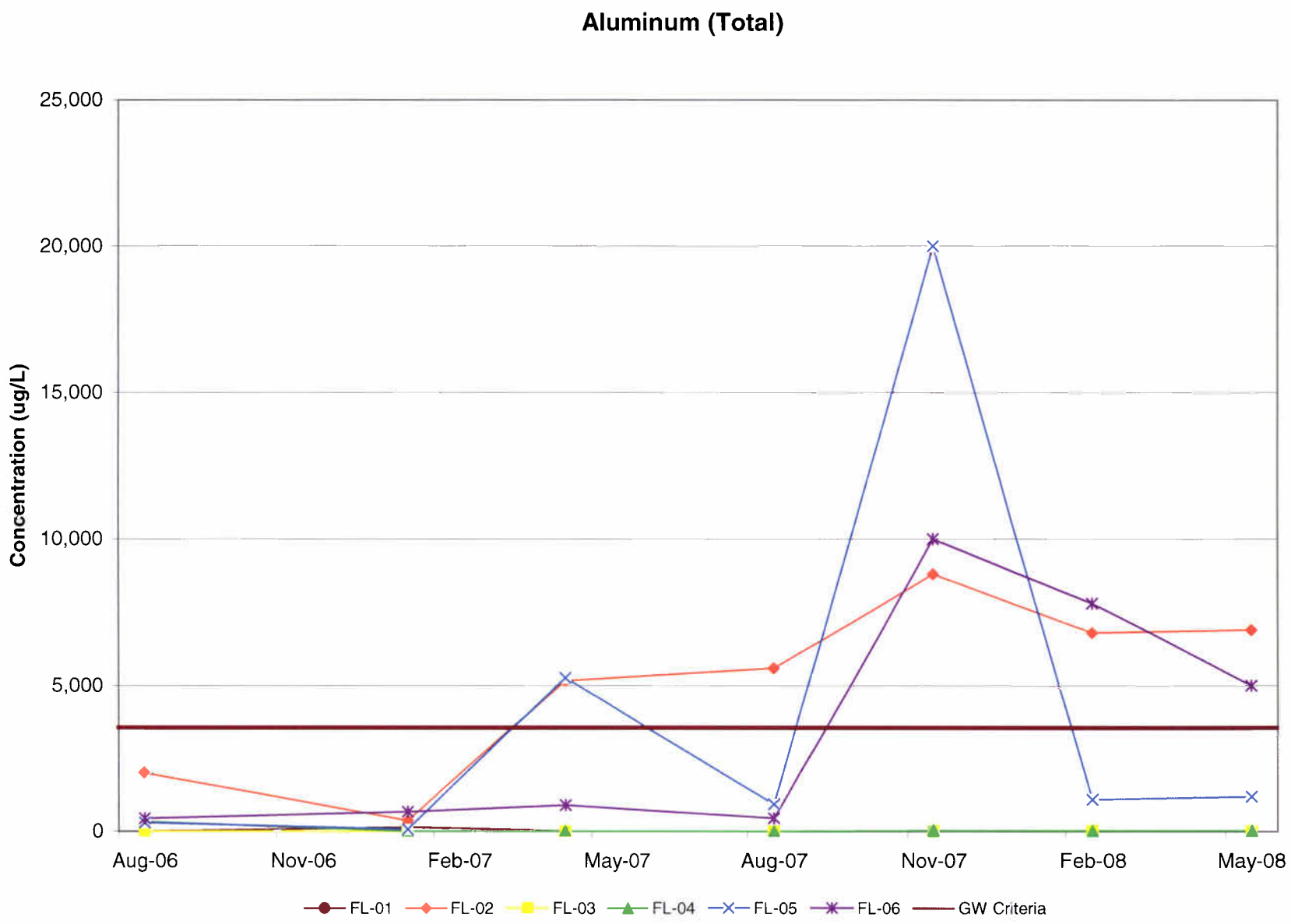
Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	2.0	U	
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0041	UJ	D
NITRATE-N	MG/L	0.31		
NITRITE/NITRATE-N	MG/L	0.31	U	A
NITRITE-N	MG/L	0.0029	U	

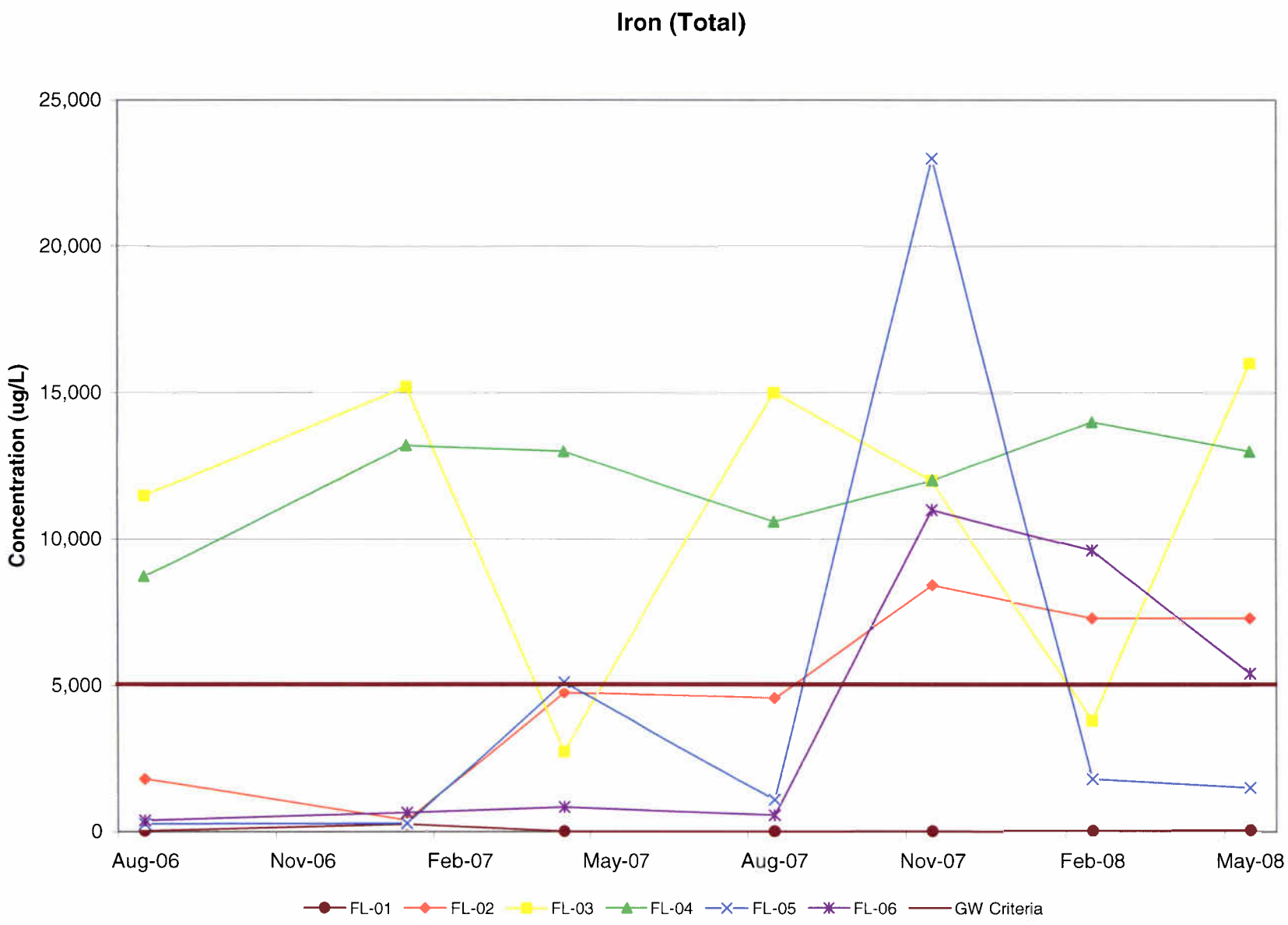
Parameter	units	Result	Val Qual	Qual Code
BIOCHEMICAL OXYGEN DEMAN	MG/L	16.0	J	G
FECAL COLIFORM	COL/1	2.0	U	
HEXAVALENT CHROMIUM	MG/L	0.0059	J	D
NITRATE-N	MG/L	0.025	J	P
NITRITE/NITRATE-N	MG/L	0.025	U	A
NITRITE-N	MG/L	0.0029	U	

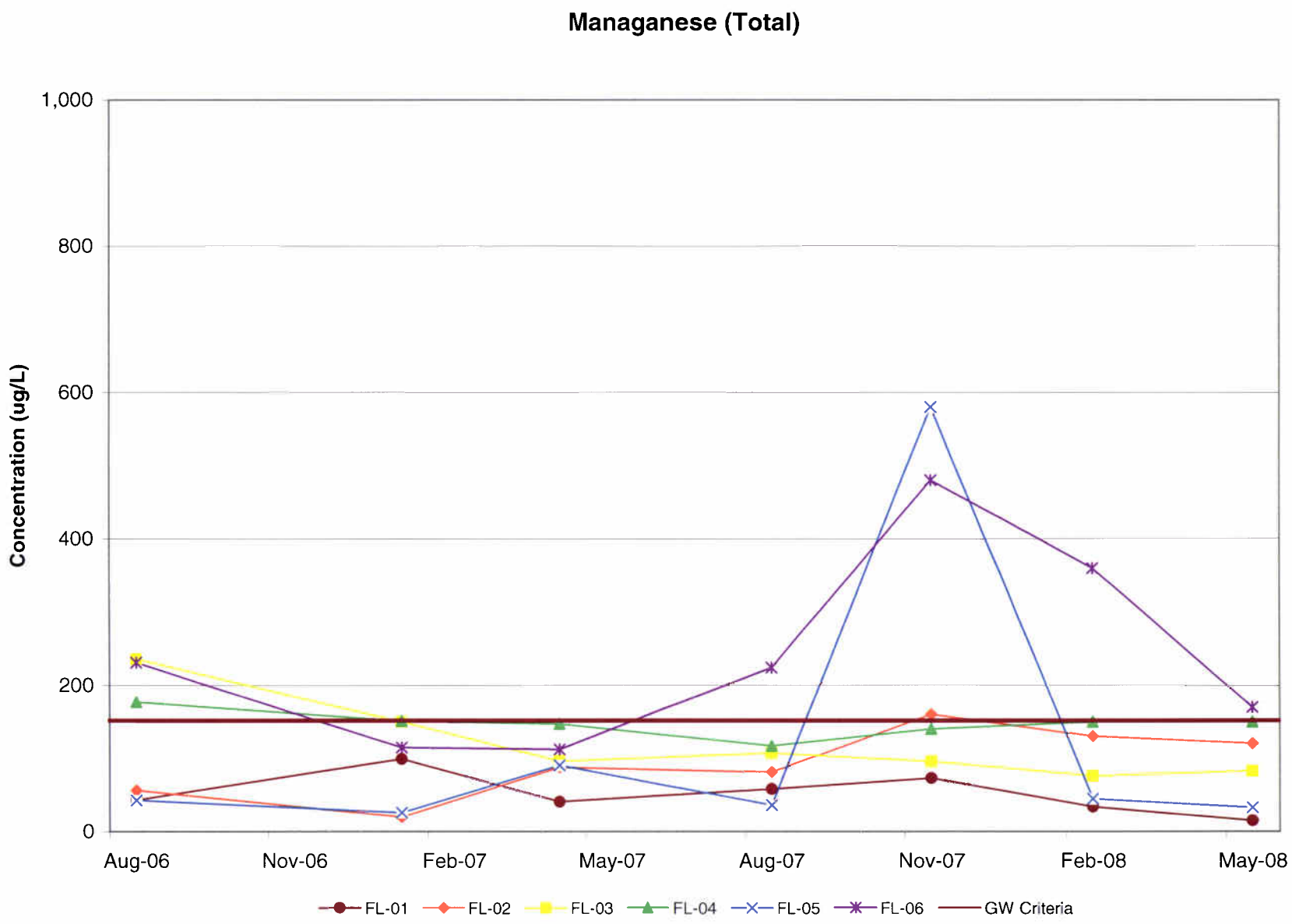
APPENDIX E

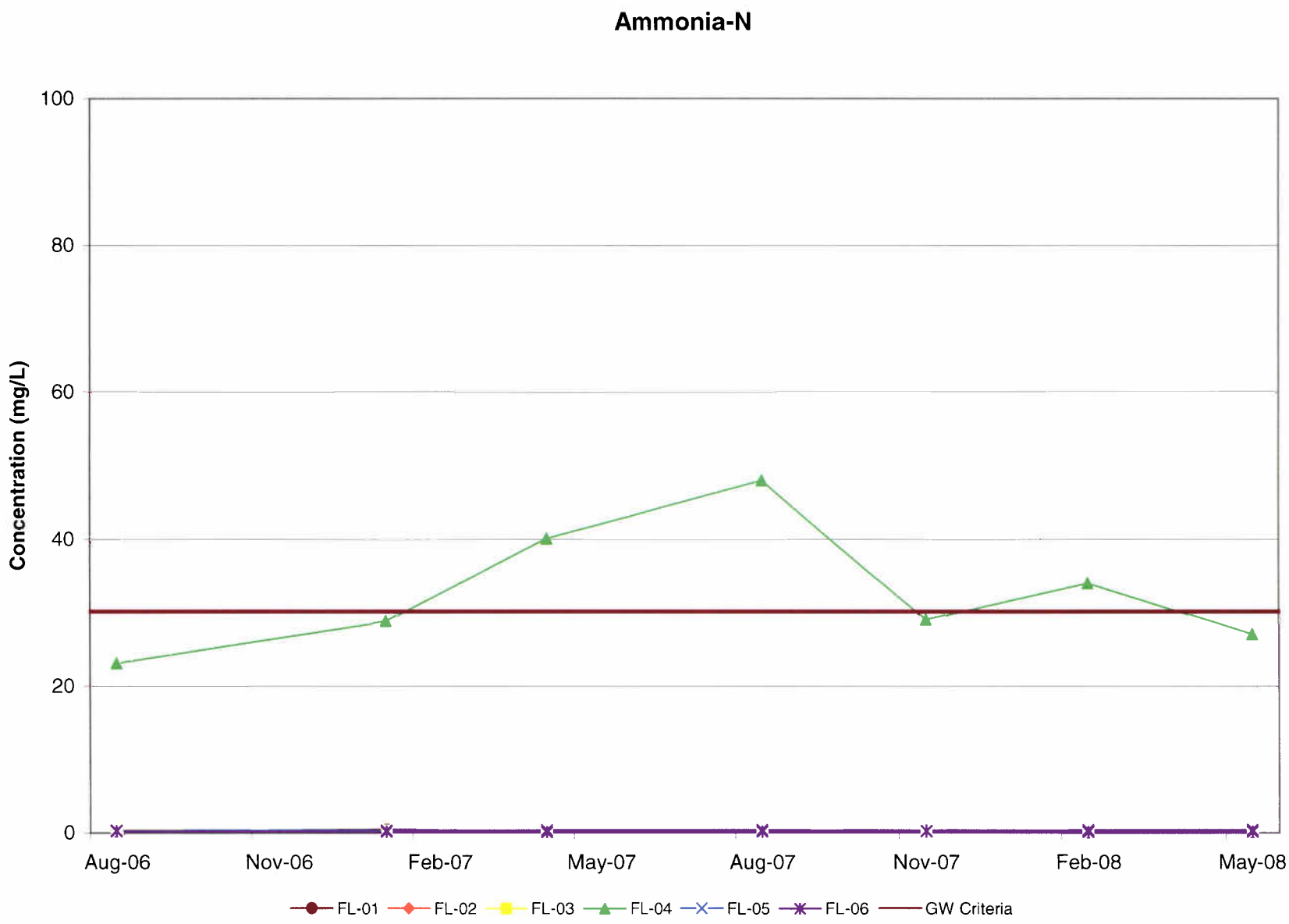
TREND GRAPHS

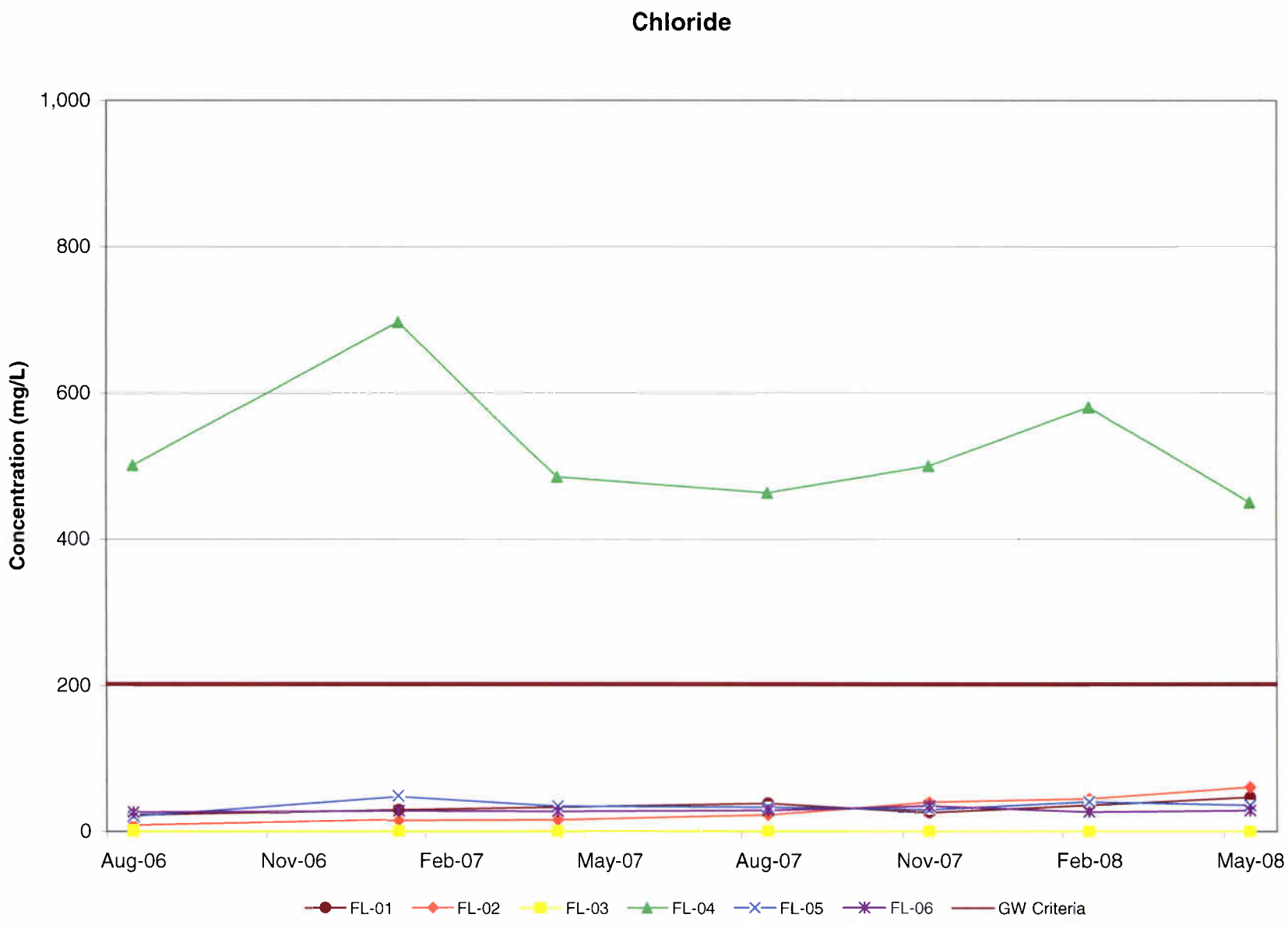

Bis(ethylhexyl)Phthalate
Concentration (ug/L)
50
40
30
20
10
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

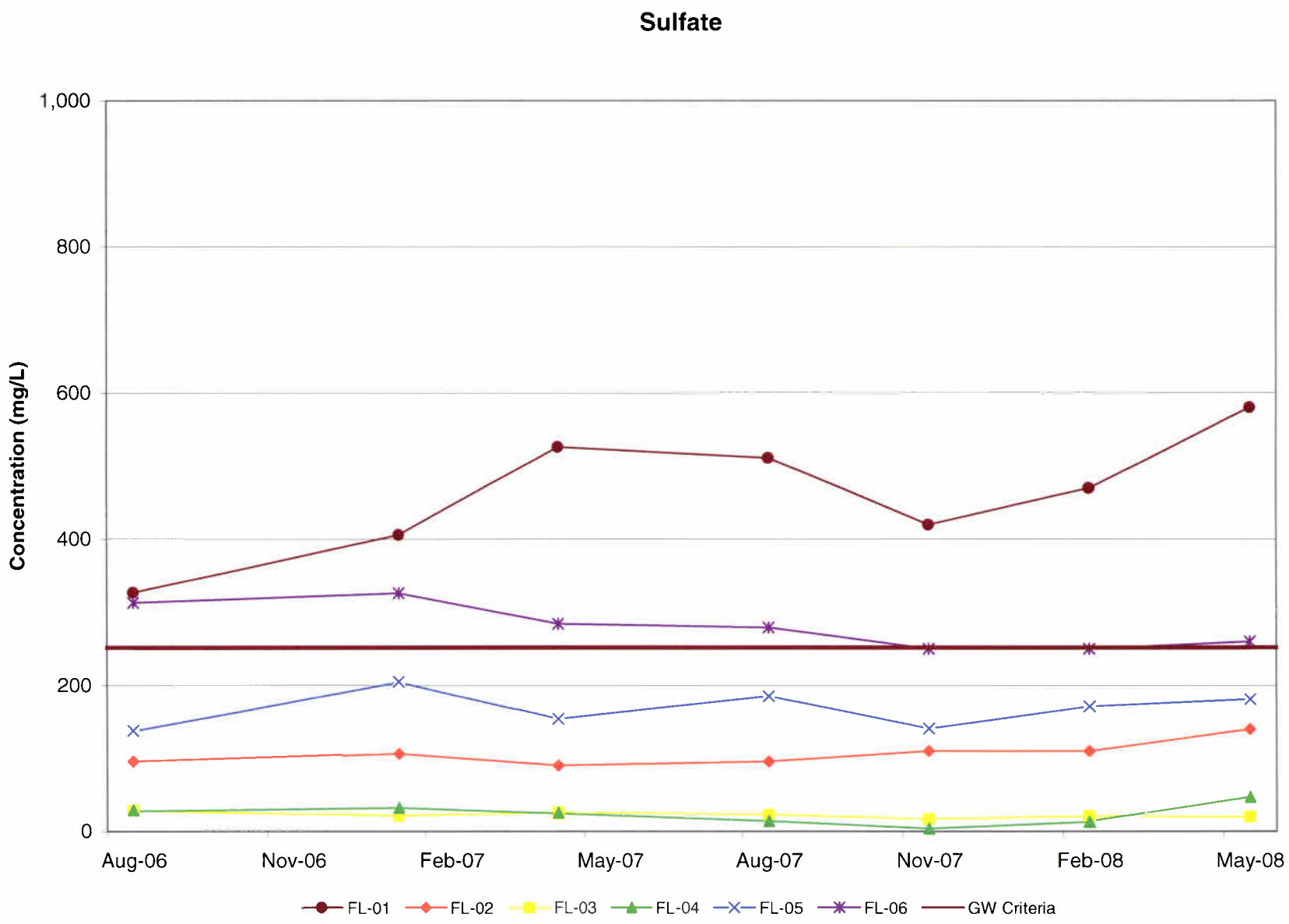

Aluminum (Total)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

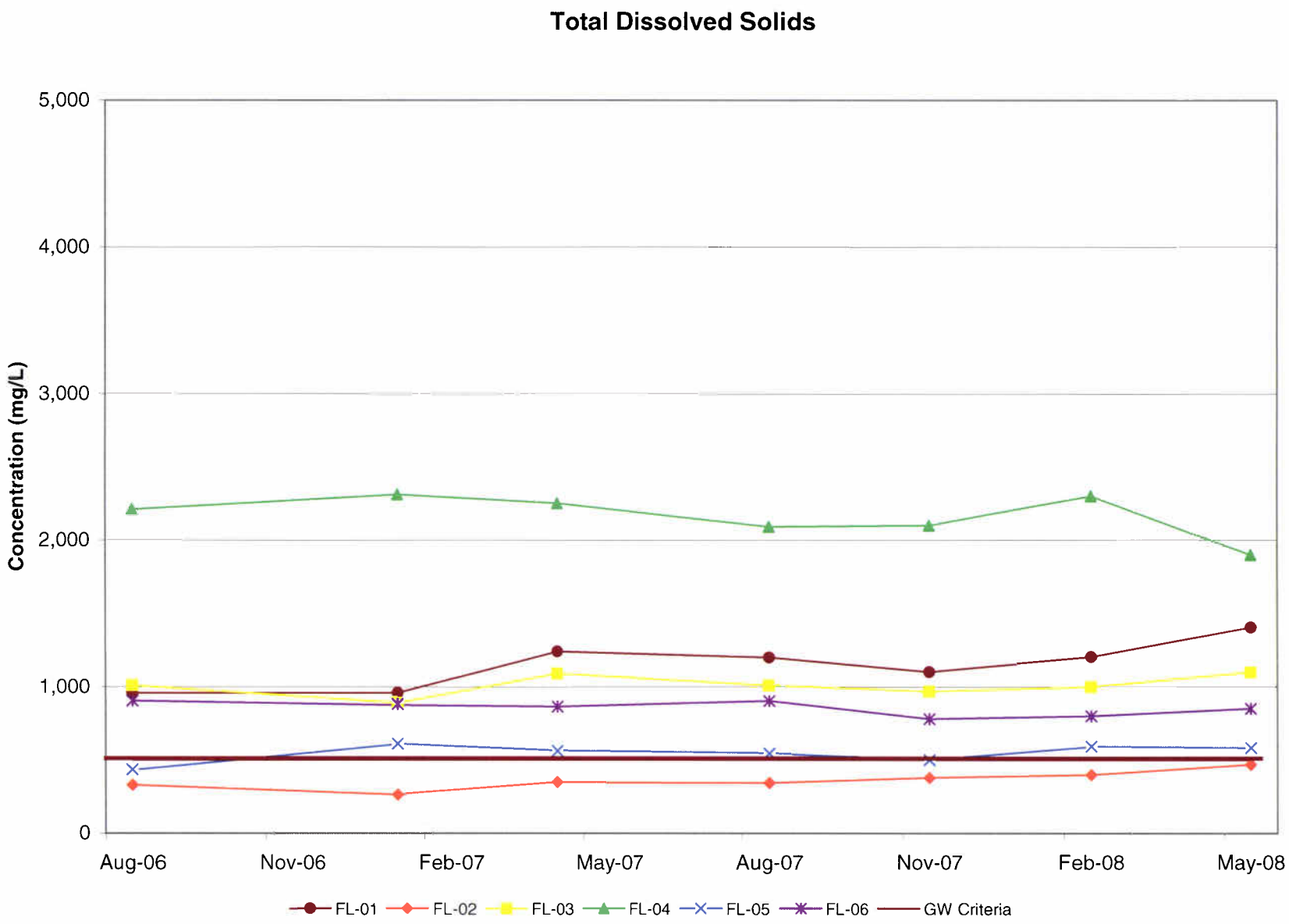

Iron (Total)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

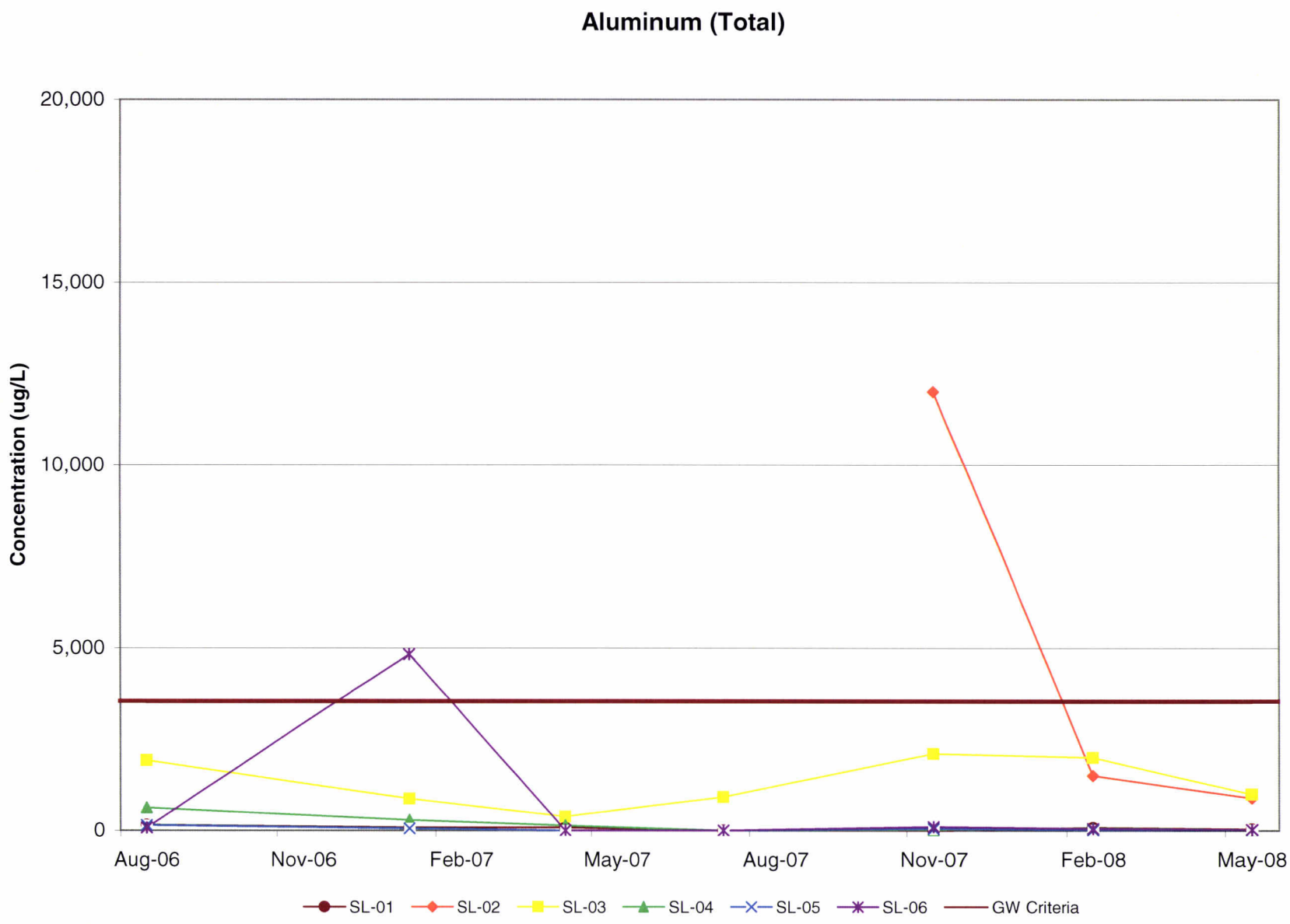

Managanese (Total)
Concentration (ug/L)
1,000
800
600
400
200
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

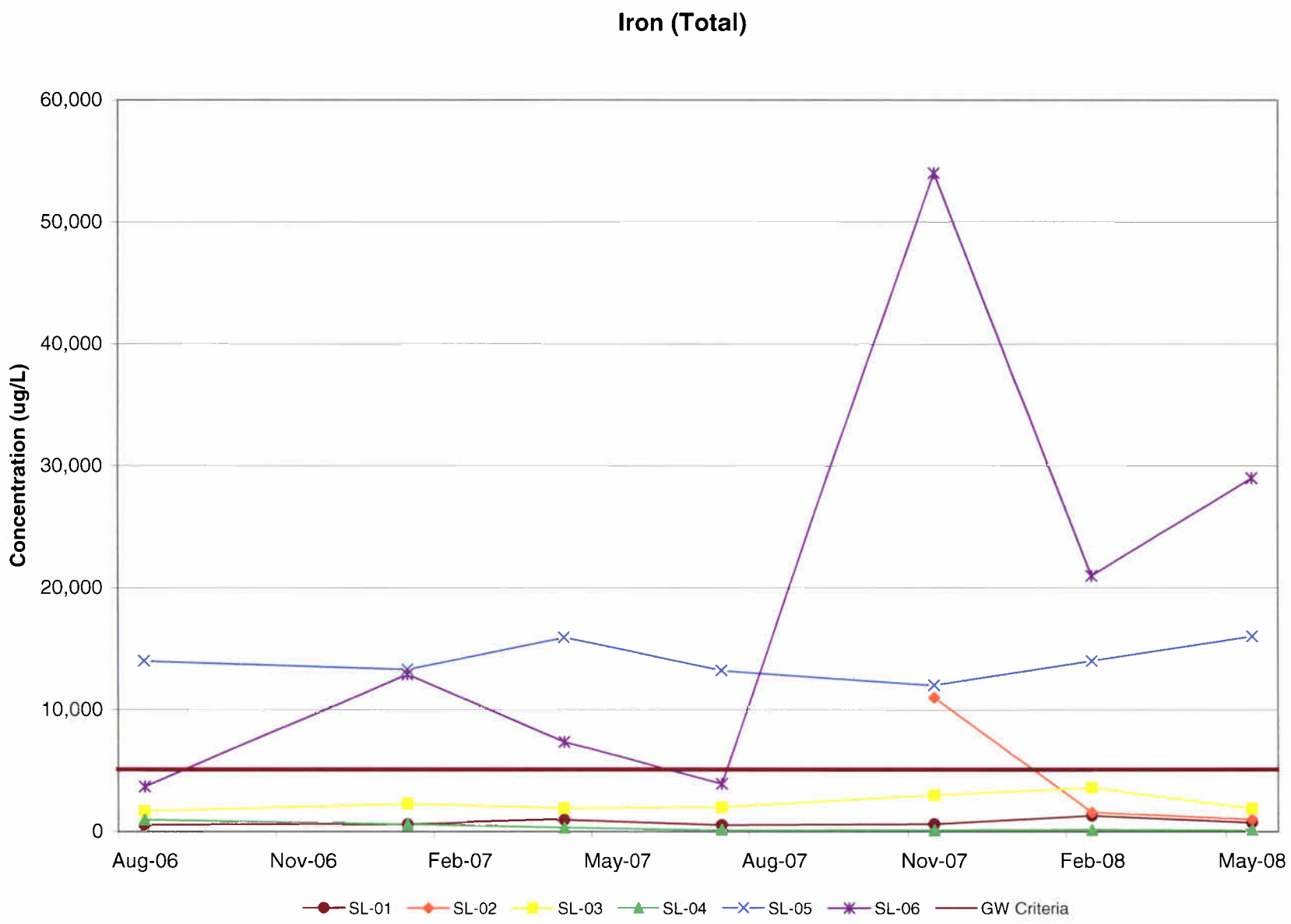

Ammonia-N
Concentration (mg/L)
100
80
60
40
20
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

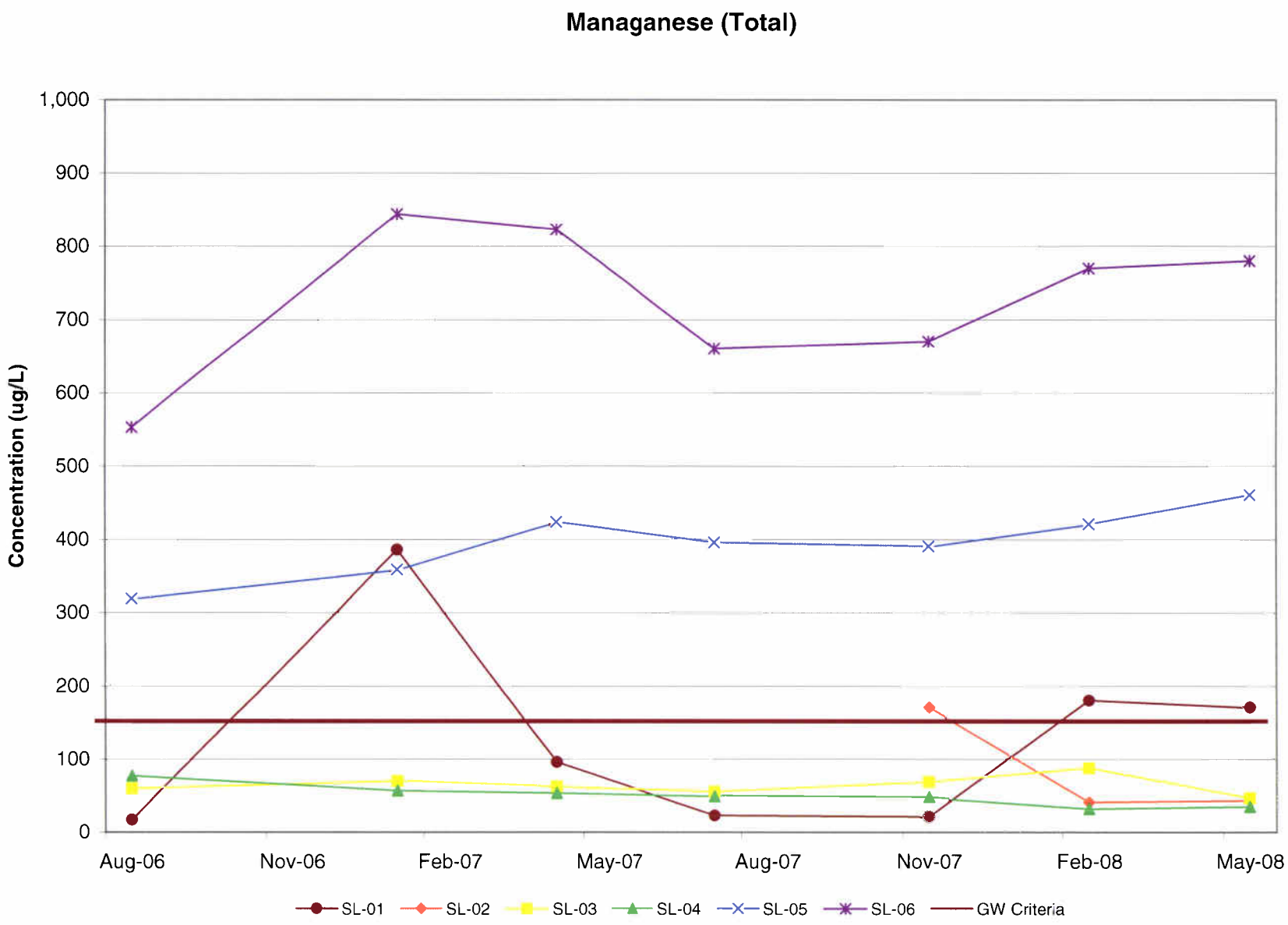

Chloride
Concentration (mg/L)
1,000
800
600
400
200
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

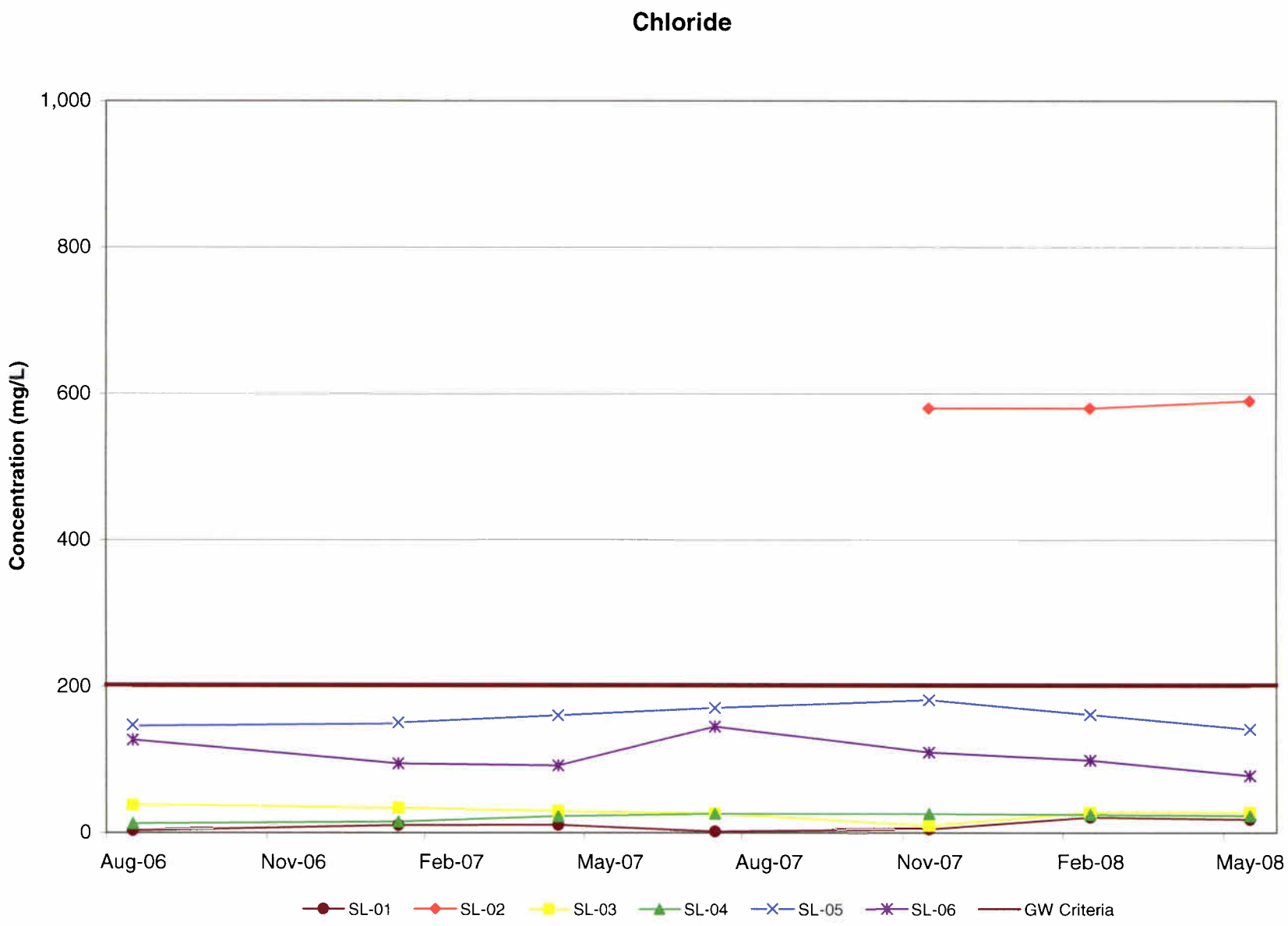

Sulfate
Concentration (mg/L)
1,000
800
600
400
200
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

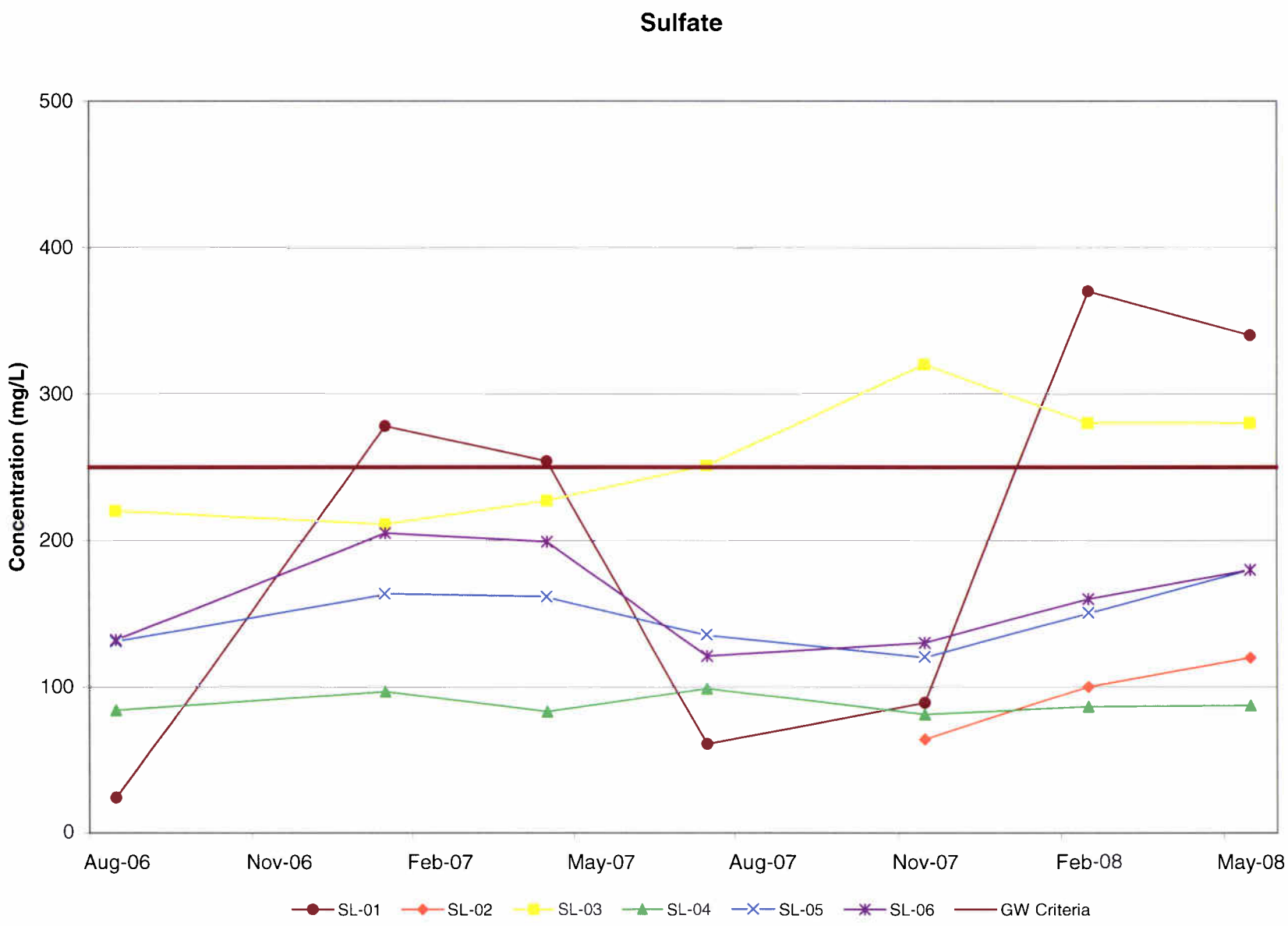

Total Dissolved Solids
Concentration (mg/L)
5,000
4,000
3,000
2,000
1,000
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
FL-01
FL-02
FL-03
FL-04
FL-05
FL-06
GW Criteria

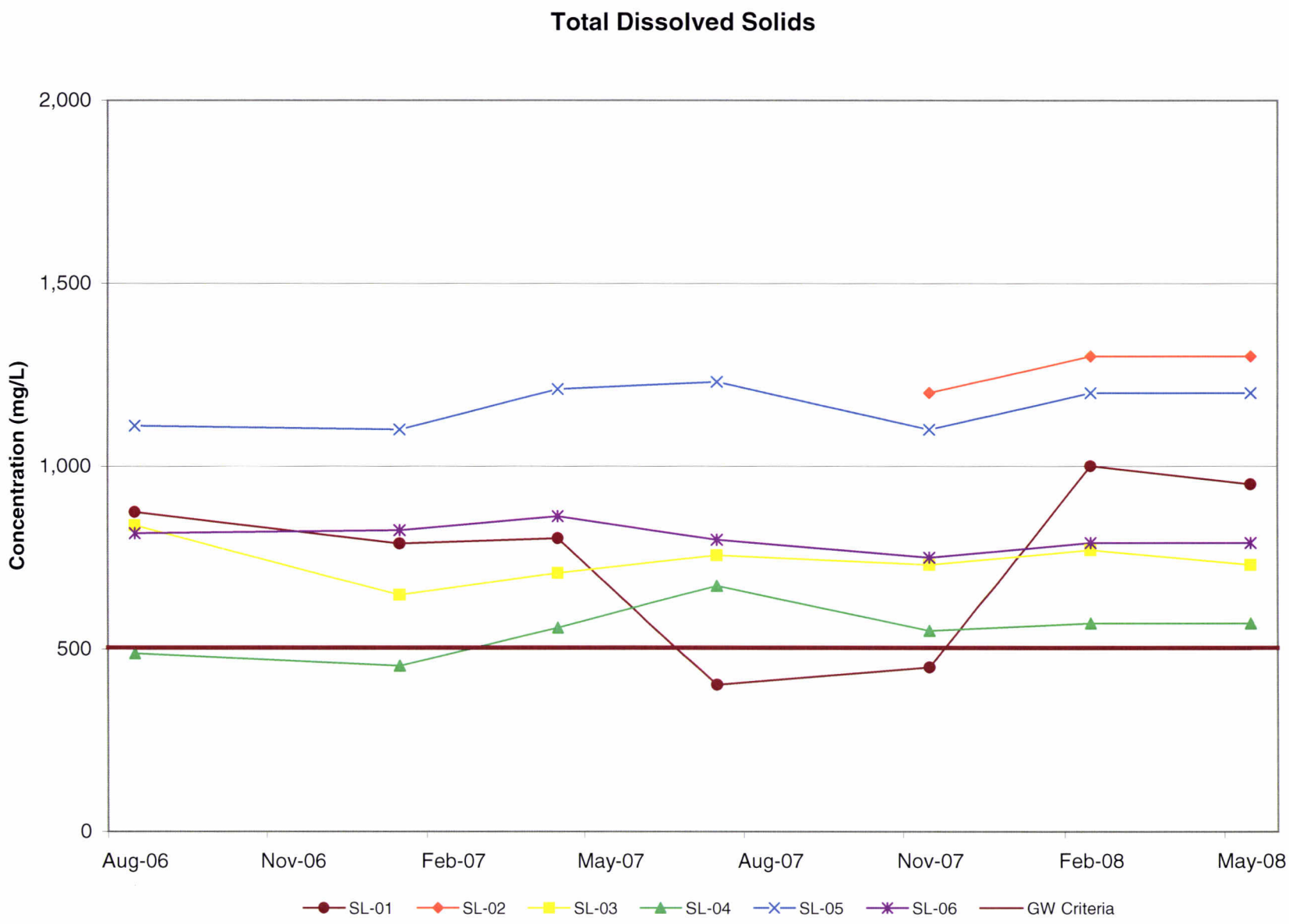

Aluminum (Total)
Concentration (ug/L)
20,000
15,000
10,000
5,000
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria


Iron (Total)
Concentration (ug/L)
60,000
50,000
40,000
30,000
20,000
10,000
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria


Managanese (Total)
Concentration (ug/L)
1,000
900
800
700
600
500
400
300
200
100
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria


Chloride
Concentration (mg/L)
1,000
800
600
400
200
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria


Sulfate
Concentration (mg/L)
500
400
300
200
100
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria


Total Dissolved Solids
Concentration (mg/L)
2,000
1,500
1,000
500
0
Aug-06
Nov-06
Feb-07
May-07
Aug-07
Nov-07
Feb-08
May-08
SL-01
SL-02
SL-03
SL-04
SL-05
SL-06
GW Criteria