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Spills - SP
ERP - E
VCP - V
BCP - C

May 2005 Semi-Annual Groundwater Quality Monitoring Report

Hazardous Waste Management Facilities HWM-1 & HWM-2

September 2005 0071-005-600

Prepared For:

Tecumseh Redevelopment, Inc.
Former Bethlehem Steel Lackawanna Coke Division Site
Lackawanna, New York

Prepared By:

TurnKey Environmental Restoration, LLC

726 Exchange Street, Suite 624, Buffalo, New York | phone: (716) 856-0599 | fax: (716) 856-0583

TurnKey Environmental Restoration, LLC

September 6, 2005

Mr. Keith Nagel
Manager – Environmental Control
Tecumseh Redevelopment, Inc.
3250 Interstate Drive
Richfield, OH 44286

Re: Tecumseh Redevelopment, Inc. - Lackawanna, New York Site
Hazardous Waste Management Facilities (HWM-1 and HWM-2)
May 2005 Semi-Annual Groundwater Quality Monitoring Report

Dear Mr. Nagel:

TurnKey Environmental Restoration, LLC is herein transmitting a copy of the May 2005 Semi-Annual Groundwater Quality Monitoring Report which summarizes the groundwater monitoring results and activities conducted at the hazardous waste management units HWM-1 and HWM-2 located in Lackawanna, New York. The May 2005 semi-annual monitoring event was conducted on May 11-12, 2005.

We appreciate this opportunity to be of service to Tecumseh Redevelopment. Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

Thomas H. Forbes, P.E.
Project Manager

c: P. Merges (NYSDEC – Albany)
S. Radon (NYSDEC – Region 9)

file: 0071-005-600

May 2005 Semi-Annual Groundwater Quality Monitoring Report

Hazardous Waste Management Facilities HWM-1 & HWM-2

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TECUMSEH REDEVELOPMENT, INC.
HAZARDOUS WASTE MANAGEMENT FACILITIES HWM-1 & HWM-2
MAY 2005 SEMI-ANNUAL REPORT

Table of Contents

Table of Contents

LIST OF TABLES

LIST OF FIGURES

APPENDICES

1.0 INTRODUCTION

1.1 Background

In November 1980, BSC submitted a Part A "interim status" application to the USEPA for two solid waste disposal facilities, designated as Hazardous Waste Management Unit No. 1 (HWM-1) and Hazardous Waste Management Unit No. 2 (HWM-2). Both HWM-1 and HWM-2 are located within the approximately 440-acre man-made Slag Fill Area (SFA) of the site (see Figure 1). Unit HWM-1 is comprised of two sub-units identified as HWM-1A and HWM-1B. During the 1990 RCRA Facility Investigation (RFI), each unit was assigned a solid waste management unit (SWMU) designation as follows: HWM-1A is referred to as SWMU S-13, HWM-1B is referred to as SWMU S-16, and HWM-2 is referred to as SWMU S-3. The interim status terminated in November 1985. Each unit is described in detail below:

- **HWM-1A (SWMU S-13)** is known as the Tar Sludge Surface Impoundment, which contains tar decanter sludge material generated during the coking process at the former BFC facility. Prior to 1982, solid wastes including iron-making slag, coke fines, coal tar tank bottoms, and ammonia absorber acid oil were co-disposed with tar decanter sludge (Reference 1). HWMA-1A was closed in the fall of 1988 and covered with a polyethylene geomembrane cap, clay, topsoil, and grass with runoff and diversion ditches installed around the perimeter.

- **HWM-1B (SWMU S-16)** is known as the Lime Stabilized Pickle Liquor Sludge Landfill, which contains spent pickle liquor (SPL) sludge. HWM-1B was closed in 1985 and covered with a geomembrane cover. A 1985 USEPA de-listing petition final decision is still pending.

- **HWM-2 (SWMU S-3)** is known as the Ammonia Still Lime Sludge (ASLS) impoundment, which received ammonia still lime sludge and sludges from BSC's Basic Oxygen Furnace and from Blast Furnace Final Thickeners. HWM-2 is a de-listed Hazardous Waste Management Unit, based on waste sampling results from the non-RFI 1985, 1988 and 1992 investigations (Reference 1).

Subsequent monitoring of each HWM unit resulted in preparation of a groundwater monitoring plan prepared by Ecology and Environment in 1988. Additional investigations lead to changes to the plan that were implemented into the final Groundwater Monitoring, Sampling and Analysis Plan (GWMSAP) dated March 1994. Well purging methods described in the March 1994 plan were amended to incorporate the low flow purge and sample procedures described in the USEPA/NYSDEC-approved Work Plan for the Comprehensive Groundwater Sampling Event by URS Corporation, Buffalo, New York on November 1999 as part of a 1999 RFI, site-wide comprehensive groundwater sampling event (Reference 2).

1.2 Purpose

This semi-annual groundwater quality monitoring report for hazardous waste management units HWM-1 and HWM-2 located at the Former Bethlehem Steel Lackawanna Coke Division Site presents groundwater monitoring activities and laboratory analytical results of the May 2005 monitoring event performed in accordance with the March 1994 GWMSAP.

2.0 DESCRIPTION OF MONITORING PROGRAM

2.1 General

In accordance with the March 1994 Groundwater Monitoring, Sampling and Analysis Plan (GWMSAP), 13 groundwater samples are to be, on a semi-annual basis, collected from the sample locations and analyzed for the site-specific parameters presented in Tables 1 and 2. The groundwater sample locations are presented on Figures 2 and 3. Analytical results for the current monitoring event are discussed in Section 4.0 of this report.

2.2 Groundwater Monitoring Network

A total of 13 monitoring wells are included in the HWM-1 and HWM-2 GWMSAP, including nine monitoring wells located within Unit HWM-1 (MW-1D1, MW-1D2, MW-1D3, MW-1D4, MW-1D6, MW-1D7, MW-1D8, MW-1U1, and MWN-12) and four monitoring wells located within Unit HWM-2 (MW-2D2, MW-2D3, MW-2D4, and MW-2U1). It should be noted that HMW-1 monitoring wells MW-1D5, MWN-03, MWN-04, MWN-05A, MWN-42A, P-4S, P-5S, P-6S, and P-7S as well as HMW-2 monitoring wells MWS-09, MWS-11A, MWS-15, and MWS-26A are monitored for water level only; no samples are collected from these locations. During the current monitoring event, 12 of the 13 groundwater monitoring wells were purged and sampled. Monitoring well MW-2U1 was dry and, therefore, was not sampled. Monitoring well locations for Units HWM-1 and HWM-2 are presented on Figures 2 and 3, respectively.

2.3 Purge and Sample Procedures

Upon arrival, field personnel visually inspected each monitoring well for defects and/or vandalism. Following location and inspection of each well, the static water level and total depth was recorded and one standing well volume was calculated. Static water level measurements are summarized in Table 3 and discussed in Section 3.0 of this report. TurnKey staff purged and sampled each monitoring well using a non-dedicated Grundfos® submersible pump and dedicated pump tubing following low-flow purge and sample collection procedures. Prior to sample collection, groundwater was evacuated from each well at a low-flow rate (range: 0.11 to 0.9 L/min, 0.42 L/min average) and field measurements for

pH, specific conductance, temperature, turbidity, dissolved oxygen, visual and olfactory observations and water level were periodically recorded and monitored for stabilization. Purging was considered completed when pH, specific conductivity and temperature stabilized (i.e., a variation between field measurements of 10 percent or less and no overall upward or downward trend in the measurements) and when the turbidity was measured below 50 NTU, or had stabilized above 50 NTU. Upon stabilization of field parameters, groundwater samples were collected and analyzed for the parameters presented in Table 2. The non-dedicated Grundfos® submersible pump was decontaminated with a non-phosphate detergent and potable-quality water solution, rinsed with deionized water demonstrated analyte-free (such as distilled water) and air-dried prior to use at each subsequent monitoring well.

Prior to and immediately following collection of groundwater samples, field measurements for pH, specific conductance, temperature, turbidity, Eh, dissolved oxygen, visual and olfactory observations and water level were recorded. A summary of field measurements is presented in Tables 4 and 5. Low-Flow Method Groundwater Purge and Sample Collection Logs were prepared for each monitoring well and are presented in Appendix A. All collected groundwater samples were placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4 °C in the field, and transported under chain-of-custody command to Severn Trent Laboratories, Inc. (STL), located in Amherst, New York for analysis. Analytical results for all groundwater samples collected during the current monitoring event are presented in Section 4.0 of this report.

2.4 QA/QC Procedures

Quality Assurance and Quality Control (QA/QC) measures taken to ensure the reliability of the generated data during groundwater monitoring of hazardous waste units HWM-1 and HWM-2 were as follows:

- One trip blank was included with the samples sent to STL. This blank consisted of analyte-free water, which was taken to the field and transported to the laboratory in the same manner as the groundwater samples collected. The trip blank was only analyzed for the volatile organic compounds listed in Table 2.

- One blind duplicate sample was collected from monitoring well MW-1D8; the location of the sample collection point was not disclosed to the analytical laboratory. This sample was analyzed for the parameters listed in Table 2.

- One Matrix Spike and Matrix Spike Duplicate (MS/MSD) sample was collected from monitoring well MW-1D1 and analyzed for the parameters listed in Table 2.

QA/QC documentation, including chain-of-custody forms, is provided in Appendix B with the analytical report prepared by STL.

3.0 GROUNDWATER FLOW

Groundwater elevations were measured from 17 of the 18 monitoring wells located within Unit HMW-1 and 7 of the 8 monitoring wells in Unit HWM-2 on May 9, 2005. Unit HWM-1 monitoring well MWN-42A was measured on May 11, 2005 and Unit HWM-2 monitoring well MW-2U1 was dry during the current monitoring event. Table 3 summarizes the location, reference point, reference point elevation, depth to water, and groundwater elevation for each monitoring location. The Lake Erie elevation presented in Table 3 was obtained from the National Oceanic and Atmospheric Administration/National Ocean Service's (NOAA/NOS) Center for Operational Oceanographic Products and Services (CO-OPS) web page; Great Lakes Water Level Data Inventory for station number 9063020 Buffalo, Lake Erie, New York. Groundwater and lake elevation data for the current monitoring event are generally consistent with historic data. Historic elevation data and elevation versus time plots for each monitoring well and Lake Erie are presented in Appendix C. In general, there is little seasonal fluctuation in groundwater elevation throughout each monitored year, however Lake Erie fluctuates greatly with the season.

Four isopotential maps representing the shallow groundwater within Units HWM-1 and HWM-2 were prepared from the May 9, 2005 depth-to-groundwater measurements and are presented as Figures 4 and 5. Based on those measurements, the inferred groundwater flow directions indicate the shallow groundwater migrates toward Lake Erie during the current monitoring event, which is consistent with historic flow patterns at the site.

4.0 MAY 2005 MONITORING RESULTS

Samples were collected from monitoring locations identified in Section 2.0 on May 11-12, 2005 to comply with the USEPA-approved GWMSAP for hazardous waste management units HWM-1 and HWM-2 at the Former BFC Lackawanna facility. Each sample was submitted for analysis of site-specific volatile organic compounds (VOCs); site-specific semi-volatile organic compounds (SVOCs); total and dissolved metals (15 compounds in total); carbonate alkalinity; chloride; total cyanide; nitrate; sulfate; and total dissolved solids as presented in Table 2. Analyses were performed using USEPA methodology contained in SW-846 and 40 CFR Part 136. Compounds detected above method detection limits are shown on Tables 4 and 5 along with their associated concentration and NYSDEC Class "GA" Groundwater Quality Standard (NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998). Guidance Values are presented where Standards have not been established for a specific compound. Concentrations exceeding NYSDEC Groundwater Quality Standards (GWQS) or Groundwater Quality Guidance Values (GWQGV) are shaded. The monitoring data for each unit is discussed in the sections below.

4.1 Hazardous Waste Management Unit HWM-1

4.1.1 Field Measured Data

Table 4 presents the field measured parameter results for pH, specific conductivity, dissolved oxygen, temperature, and turbidity measured during collection of the groundwater samples at the hazardous waste management unit HWM-1. Appendix A contains the field sampling data sheets completed during the current monitoring event.

4.1.2 Analytical Data

Table 4 summarizes the groundwater analytical data for the May 2005 semi-annual sampling event conducted at the hazardous waste management unit HWM-1. Appendix B contains the laboratory analytical report. A discussion of the laboratory quality control (QC) is presented in the case narrative section of the laboratory analytical report. Based on a

review of laboratory QC data, the analytical results reported by the laboratory are usable for assessing changes in the groundwater quality at the Site.

As indicated on Table 4, in hazardous waste management units HWM-1A and 1B, certain VOCs (primarily benzene, toluene and xylenes) were detected in several monitoring wells above the GWQS. Trichloroethene was also detected in monitoring wells MW-1D1 and MW-1D7 above the GWQS. A limited number of SVOCs were detected above the GWQSs. These included: acenaphthylene (MW-1D2); 3-methylphenol (MW-1D3); 4-methylphenol (MW-1D3, MW-1D4, and MWN-12); 2–methylphenol (MW-1D3); naphthalene (MW-1D2, MW-1D4, MW-1D8, MWN-12 and MW-1U1); and phenol (MW-1D3). Of the inorganic compounds detected, sodium (total and soluble) exceeded the GWQS in five monitoring wells (MW-1D2, MW-1D3, MW-1D4, MWN-12, and MW-1U1) and only soluble sodium exceeded the GWQS in one monitoring well (MW- 1D1). Chloride was detected above the GWQS in monitoring wells MW-1D1 and MW-1D7. Sulfate was detected above GWQSs in all nine wells monitored. In addition, pH for all wells, with the exception of MW-1D7, was detected above the GWQS.

4.2 Hazardous Waste Management Unit HWM-2

4.2.1 Field Measured Data

Table 5 presents the field measured parameter results for pH, specific conductivity, dissolved oxygen, temperature, and turbidity measured during collection of the groundwater samples at the hazardous waste management unit HWM-2. Appendix A contains the field sampling data sheets completed during the current monitoring event.

4.2.2 Analytical Data

Table 5 summarizes the groundwater analytical data for the May 2005 semi-annual sampling event conducted at the hazardous waste management unit HWM-2. Appendix B contains the laboratory analytical report. A discussion of the laboratory quality control (QC) is presented in the case narrative section of the laboratory analytical report. Based on a review of laboratory QC data, the analytical results reported by the laboratory are usable for assessing changes in the groundwater quality at the Site.

As indicated on Table 5, in hazardous waste management unit HWM-2, several VOCs and SVOCs were detected in monitoring well MW-2D3 above their respective GWQS/GVs and only one SVOC was detected in monitoring well MW-2D4 above the GWQGV. Similar to the HWM-1 wells, VOCs detected were limited to benzene, toluene and xylenes. SVOCs detected included acenaphthylene, 4-methylphenol, and naphthalene. Of the inorganic compounds detected, magnesium exceeded the GWQGV in monitoring well MW-2D4 and sodium exceeded the GWQS in all three monitoring wells sampled (MW-2D2, MW-2D3, and MW-2D4). Sulfate was detected above the GWQS at all three monitoring wells and chloride was only detected above the GWQS at monitoring well MW-2D2. In addition, pH was detected above the GWQS for two monitoring wells sampled (MW-2D2 and MW-2D3).

4.3 Independent Data Usability Summary

In accordance with the 1994 GWMSAP, analytical data from one of the two semi-annual monitoring events per year must be independently assessed and, as required, the May 2005 event was submitted for independent review. Ms. Judy Harry of Data Validation Services located in North Creek, New York performed the data usability summary assessment (DUSR) involving review of the summary form information and sample raw data, and a limited review of associated QC raw data. The DUSR was conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, and professional judgment. The May 2005 Data Usability Summary Report is included as Appendix D.

In general, internal laboratory quality control samples and site-specific QC samples indicate satisfactory analytical accuracy and precision. No indications of significant matrix interference or other indications of potential negative sample bias were recorded; however, minor data qualification as "estimated" ("J" qualifier) was required due to typical processing or matrix effects. Analytical results for 2-chloroethyl vinyl ether were rejected due to the lack of stability in the preserved matrix. In no instance were parameters detected in a sample also found to be present in the associated blank. Sample shipping coolers were received in good condition and at an appropriate temperature. According to the data review, concentrations of 3-methylphenol and 4-methylphenol should be considered "and/or" values, as it is not appropriate to regard the reported values as being individually true (i.e.,

these parameters co-elute). Inorganic compound barium detected in monitoring well MW-1D3 was reported at a concentration higher in the dissolved fraction than the total fraction, therefore, both barium fractions have been qualified as estimated ("J").

5.0 HISTORICAL COMPARISONS

Historical presentations and a discussion of time versus concentration plots for hazardous waste management units HWM-1A, HWM-1B and HWM-2 will be presented in the 2005 annual report. In general, a comparison of the May 2005 analytical results to the historical database indicates similar detections of parameters at similar concentrations.

6.0 REFERENCES

1. Final RCRA Facility Investigation Report, Bethlehem Steel Corporation, Lackawanna, New York, Part II: Site Description, Investigations and Results, URS Corporation, October 2004.

2. October 2002 Groundwater Quality Monitoring Report, Hazardous Waste Management Facilities HWM-1 and HWM-2, Bethlehem Steel Corporation, Lackawanna, New York, URS Corporation, January 2003.

TABLES

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 1

GROUNDWATER MONITORING NETWORK AND SAMPLE FREQUENCY

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

Well Designation	Network Well	Monitoring Event					
		2004		2005		2006	
		1 SA	2 SA	1 SA	2 SA	1 SA	2 SA
HWM-1A & HWM-1B							
MW-1D1	x	x	x	x	x	x	x
MW-1D2	x	x	x	x	x	x	x
MW-1D3	x	x	x	x	x	x	x
MW-1D4	x	x	x	x	x	x	x
MW-1D5		*water level only*					
MW-1D6	x	x	x	x	x	x	x
MW-1D7	x	x	x	x	x	x	x
MW-1D8	x	x	x	x	x	x	x
MW-1U1	x	x	x	x	x	x	x
MWN-03		*water level only*					
MWN-04		*water level only*					
MWN-05A		*water level only*					
MWN-12	x	x	x	x	x	x	x
MWN-42A		*water level only*					
P-4S		*water level only*					
P-5S		*water level only*					
P-6S		*water level only*					
P-7S		*water level only*					
HWM-2							
MW-2D2	x	x	x	x	x	x	x
MW-2D3	x	x	x	x	x	x	x
MW-2D4	x	x	x	x	x	x	x
MW-2U1	x	x	x	x	x	x	x
MWS-09		*water level only*					
MWS-11A		*water level only*					
MWS-15		*water level only*					
MWS-26A		*water level only*					

Notes:
1. SA = semi-annual monitoring event.

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 2

SUMMARY OF ANALYTICAL PARAMETERS

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

Site-Specific Volatile Organic Compounds (SS-VOCs) - Method 8260B

Acrylonitrile	2-Chloroethylvinyl ether	trans-1,3-Dichloropropene	1,1,1,2-Tetrachloroethane
Benzene	Chloroform	Dibromochloromethane	1,1,2,2-Tetrachloroethane
Bromochloromethane	Chloromethane	Dichlorodifluoromethane	Trichloroethene
Bromodichloromethane	1,1-Dichloroethane	Ethylbenzene	Trichlorofluoromethane
Bromoform	1,2-Dichloroethane	Methylene chloride	Vinyl chloride
Bromomethane	1,1-Dichloroethene	Tetrachloroethene	o-Xylene
Carbon Tetrachloride	trans-1,2-Dichloroethene	Toluene	m/p-Xylenes
Chlorobenzene	1,2-Dichloropropane	1,1,1-Trichloroethane	
Chloroethane	cis-1,3-Dichloropropene	1,1,2-Trichloroethane	

Site-Specific Semi-Volatile Organic Compounds (SS-SVOCs) - Method 8270C

Acenaphthylene	1,3-Dichlorobenzene	Fluoranthene	Pentachlorophenol
Anthracene	1,4-Dichlorobenzene	Fluorene	Phenanthrene
Benzo(a)anthracene	2,4-Dichlorophenol	Hexachlorobenzene	Phenol
Benzo(a)pyrene	Diethyl phthalate	Hexachlorobutadiene	Pyrene
Butyl benzyl phthalate	2,4-Dimethylphenol	Hexachlorocyclopentadiene	Pyridine
Bis(2-chloroethyl) ether	Dimethyl phthalate	Hexachloroethane	2,3,4,6-Tetrachlorophenol
Bis(2-ethylhexyl) phthalate	Di-n-butyl phthalate	Isophorone	1,2,4-Trichlorobenzene
4-Chloro-3-methylphenol	Di-n-octyl phthalate	3-Methylphenol	2,4,5-Trichlorophenol
2-Chloronaphthalene	4,6-Dinitro-2-methylphenol	2-Methylphenol	2,4,6-Trichlorophenol
Chrysene	2,4-Dinitrotoluene	4-Methylphenol	
1,2-Dichlorobenzene	2,6-Dinitrotoluene	Naphthalene	

Total and Soluble Inorganics - Method 6010 (Method 7470 for Mercury)

Antimony	Calcium	Mercury	Silver
Arsenic	Chromium	Nickel	Sodium
Barium	Lead	Potassium	Thallium
Cadmium	Magnesium	Selenium	

Wet Chemistry - Method Varies (as noted)

	Carbonate Alkalinity	Method 310.1
	Chloride	Method 300.0
	Cyanide - Total	Method 9012
	Nitrate	Method 353.2
	Sulfate	Method 300.0
	Total Dissolved Solids	Method 160.1

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

Location	Date	Reference Point	Ref. Point Elevation [1] (fmsl)	Water Depth Below Ref. Pt. (feet)	Water Table Elevation [1] (fmsl)
HWM-1A & 1B MONITORING WELLS					
MW-1D1	05/09/05	TOR	610.59	34.59	576.00
MW-1D2	05/09/05	TOR	614.46	42.20	572.26
MW-1D3	05/09/05	TOR	612.69	40.40	572.29
MW-1D4	05/09/05	TOR	612.52	40.15	572.37
MW-1D5	05/09/05	TOR	613.49	41.17	572.32
MW-1D6	05/09/05	TOR	610.94	37.13	573.81
MW-1D7	05/09/05	TOR	611.26	36.93	574.33
MW-1D8	05/09/05	TOR	610.74	35.50	575.24
MW-1U1	05/09/05	TOC	613.18	40.40	572.78
MWN-03	05/09/05	TOR	613.20	39.98	573.22
MWN-04	05/09/05	TOR	623.45	51.35	572.10
MWN-05A	05/09/05	TOR	622.84	50.90	571.94
MWN-12	05/09/05	TOR	608.59	NM	NM
MWN-42A	05/11/05	TOR	579.37	7.00	572.37
P-4S	05/09/05	TOR	610.85	38.09	572.76
P-5S	05/09/05	TOR	616.71	44.40	572.31
P-6S	05/09/05	TOR	618.92	46.77	572.15
P-7S	05/09/05	TOR	610.59	38.46	572.13
HWM-2 MONITORING WELLS					
MW-2D2	05/09/05	TOR	632.11	59.40	572.71
MW-2D3	05/09/05	TOR	636.52	62.30	574.22
MW-2D4	05/09/05	TOR	630.44	56.25	574.19
MW-2U1	05/09/05	TOR	628.32	DRY	DRY
MWS-09	05/09/05	TOR	630.82	58.29	572.53
MWS-11A	05/09/05	TOR	640.85	65.68	575.17
MWS-15	05/09/05	TOR	628.38	53.01	575.37
MWS-26A	05/09/05	TOR	624.80	53.11	571.69
LAKE ERIE					
Lake Erie [2]	05/09/05	NA	NA	NA	571.21

Notes:

1. Elevation is measured in feet; distance above mean sea level (fmsl).
2. Source: US Army Corp of Engineers Buffalo, New York web page; 1985 International Great Lakes Datum.
3. NM = depth to water not measured.

TABLE 4

SUMMARY OF HWM-1 GROUNDWATER ANALYTICAL RESULTS [1,2]

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

PARAMETER	MW-1D1 [3] (HWM-1B)		MW-1D2 (HWM-1A)		MW-1D3 (HWM-1A)		MW-1D4 (HWM-1A)		MW-1D6 (HWM-1B)		MW-1D7 (HWM-1B)		MW-1D8 [4] (HWM-1B)		MWN-12 (HWM-1B)		MW-1U1 (HWM-1A) (HWM-1B)		GWQS [5]
Field Measurements [6]																			
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	--
pH (units)	10.68	10.97	11.96	11.92	11.89	11.75	11.85	11.89	11.22	11.15	7.72	7.65	9.58	9.62	11.90	11.89	11.84	11.96	6.5 - 8.5
Temperature (°C)	17.2	17.1	13.4	13.5	12.5	12.6	12.4	12.4	14.7	13.0	17.2	17.4	16.1	16.2	12.3	12.5	13.0	12.4	NA
Sp. Conductance (µS)	4345	2710	2557	2406	3016	2828	2484	2455	2987	2960	3169	3187	2477	2514	3134	3137	2674	2672	NA
Turbidity (NTU)	0.95	0.95	2.85	2.23	1.08	2.08	1.41	0.99	1.81	1.51	1.63	1.58	0.52	0.41	0.85	0.58	10.00	7.00	5
DO (ppm)	0.83	1.39	1.88	1.95	2.09	1.64	1.65	1.41	1.50	NM	0.88	0.70	1.05	NM	0.89	1.18	1.17	1.26	NA
Eh (mV)	-19	-26	-264	-263	-310	-320	-281	-299	-181	-156	-222	-235	-67	-83	-247	-239	-234	-225	NA
Wet Chemistry (mg/L):																			
Carbonate Alkalinity	28.3		79.5		511		125		40.9		ND		22.4		60		54.2		NA
Chloride	340		98.3		104		135		174		569		102		86		120		250
Cyanide - Total	0.014		ND		ND		ND		ND		ND		ND		ND		ND		0.2
Nitrate	0.28 J		0.081		ND		ND		ND		ND		0.44		ND		ND		10
Sulfate	1260		430		502		380		1590		1510		1780		379		318		250
Total Dissolved Solids	2060		1100		1310		1050		2530		3010		2380		1130		1040		NA
Total Inorganic Compounds (mg/L):																			
Barium	0.0388		0.051		0.219 J		0.0678		0.0231		0.0212		0.0139		0.068		0.0501		1
Calcium	779		266		254		235		677		786		625		300		266		NA
Chromium	0.0092		0.0041		ND		ND		0.0052		0.0054		ND		ND		0.0276		0.05
Magnesium	0.448		ND		0.219		ND		ND		9.36		0.678		ND		0.318		35*
Potassium	93.8		86.7		204		95.8		86.7		49.2		101		92		54.8		NA
Sodium	20		66.7		75		73.9		13.9		8		15.3		53		77.3		20
Soluble Inorganic Compounds (mg/L):																			
Barium	0.0382		0.0493		0.244 J		0.0674		0.0228		0.0207		0.0134		0.069		0.0485		1
Calcium	786		263		243		233		676		786		628		308		262		NA
Chromium	0.0064		ND		ND		ND		ND		0.0058		ND		ND		ND		0.05
Magnesium	0.451		ND		ND		ND		ND		9.47		0.694		ND		ND		35*
Potassium	97.4		80.6		213		92.2		83.8		49.4		106		89		53.4		NA
Sodium	20.1		64		73.7		72.8		14		8.28		15.4		53		76.3		20
Volatile Organic Compounds (ug/L):																			
Benzene	2.1 J		2.4 J		16 J		11		ND		11		2.7 J		3.1 J		32		1
Chlorobenzene	N		ND		ND		ND		ND		ND		ND		ND		ND		5
1,1-Dichloroethane	1.8 J		ND		ND		ND		22		ND		ND		ND		ND		5

TABLE 4

SUMMARY OF HWM-1 GROUNDWATER ANALYTICAL RESULTS [1,2]

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

PARAMETER	MW-1D1 [3] (HWM-1B)	MW-1D2 (HWM-1A)	MW-1D3 (HWM-1A)	MW-1D4 (HWM-1A)	MW-1D6 (HWM-1B)	MW-1D7 (HWM-1B)	MW-1D8 [4] (HWM-1B)	MWN-12 (HWM-1B)	MW-1U1 (HWM-1A) (HWM-1B)	GWQS [5]
Toluene	4.8 J	1.3 J	ND	3.4 J	ND	ND	4.8 J	1.2 J	6.1	5
Ethylbenzene	4.5 J	ND	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.5	ND	ND	ND	5
Trichloroethene	6.9	ND	ND	ND	ND	27	ND	ND	ND	5
m,p-Xylene	ND	7.5 J	ND	5.4 J	ND	ND	4.9 J	ND	5.4 J	5
o-Xylene	9	5.9	ND	6.4	ND	ND	2.8 J	ND	6.1	5
Semi-Volatile Organic Compounds (ug/L):										
Acenaphthylene	ND	34	ND	5 J	ND	ND	ND	6 J	ND	20*
Anthracene	ND	ND	ND	ND	ND	ND	ND	6 J	ND	50*
3 + 4-Methylphenol	ND	1 J	10	2 J	ND	ND	ND	2 J	ND	1**
2-Methylphenol	ND	ND	4 J	ND	ND	ND	ND	ND	1 J	1**
2, 4-Dimethylphenol	ND	ND	2 J	ND	ND	ND	ND	ND	ND	50*
Fluoranthene	ND	ND	ND	2 J	2 J	ND	ND	11	3 J	50*
Fluorene	ND	8 J	2 J	5 J	ND	8 J	ND	23	3 J	50*
Naphthalene	3 J	490 D	8 J	17	ND	ND	34	78	17	10*
Phenanthrene	ND	5 J	3 J	7 J	4 J	ND	ND	43	4 J	50*
Phenol	ND	1 J	27	ND	ND	ND	ND	ND	ND	1*
Pyrene	ND	ND	ND	ND	1 J	ND	ND	7 J	3 J	50*

Notes:

1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
2. Shaded values represent exceedances of the GWQS/GV.
3. Matrix Spike/Matrix SpikeDuplicate (MS/MSD) analysis performed on groundwater sample collected from MW- 1D1.
4. Blind Duplicate sample collected from MW-1D8.
5. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV) as per 6 NYCRR Part 703.
6. Field measurements were collected immediately before and after groundwater sample collection.
7. "ND" indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).
8. NA = Not available
9. NM = parameter not measured
10. D = analyzed at the secondary dilution factor.

* The Guidance Value was used where a Standard has not been established.

** The general standard of 1.0 ug/L for phenolic compounds was used.

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 5

SUMMARY OF HWM-2 GROUNDWATER ANALYTICAL RESULTS

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

PARAMETER	MW-2D2		MW-2D3		MW-2D4		MW-2U1		GWQS [4]
Field Measurements [3]									
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	--
pH (units)	10.22	10.11	11.01	10.92	8.21	8.24	NS	NS	6.5 - 8.5
Temperature (°C)	18.9	18.8	18.6	18.5	17	16.9	NS	NS	NA
Sp. Conductance (mS)	1671	1671	1706	1692	1273	1250	NS	NS	NA
Turbidity (NTU)	1.11	0.98	2.72	2.49	1.77	1.1	NS	NS	5
DO (ppm)	1.83	1.53	1.64	0.7	5.26	4.15	NS	NS	NA
Eh (mV)	-141	-120	-231	-234	-14	-54	NS	NS	NA
Wet Chemistry (mg/L):									
Carbonate Alkalinity	27.5		40		ND		NS		NA
Chloride	285		196		132		NS		250
Cyanide - Total	0.063		ND		ND		NS		0.2
Nitrate	2.2		ND		2.6		NS		10
Sulfate	568		448		265		NS		250
Total Dissolved Solids	1180		1130		854		NS		NA
Total Inorganic Compounds (mg/L)									
Barium	0.0386		0.0511		0.0423		NS		1
Calcium	213		208		97.5		NS		NA
Chromium	ND		ND		0.0092		NS		0.05
Magnesium	0.414		ND		59		NS		35*
Potassium	120		119		91.5		NS		NA
Sodium	63.9		63.2		39.2		NS		20
Soluble Inorganic Compounds (mg/L)									
Barium	0.039		0.0507		0.0411		NS		1
Calcium	215		206		94.3		NS		NA
Chromium	ND		ND		0.0051		NS		0.05
Magnesium	0.412		ND		58.5		NS		35*
Potassium	119		114		85.8		NS		NA
Sodium	64.1		61.9		37.9		NS		20
Volatile Organic Compounds (ug/L):									
Benzene	ND		13 J		ND		NS		1
Ethylbenzene	ND		ND		ND		NS		5
Toluene	ND		10 J		ND		NS		5

TABLE 5

SUMMARY OF HWM-2 GROUNDWATER ANALYTICAL RESULTS

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

PARAMETER	MW-2D2	MW-2D3	MW-2D4	MW-2U1	GWQS [4]
Trichloroethene	ND	ND	ND	NS	5
m,p-Xylene	ND	19 J	ND	NS	5
o-Xylene	ND	11 J	ND	NS	5
Semi-Volatile Organic Compounds (ug/L):					
Acenaphthylene	ND	22	ND	NS	20*
Anthracene	ND	3 J	ND	NS	50*
Fluorene	ND	19	ND	NS	50*
3 + 4-Methylphenol	ND	2 J	ND	NS	1**
2,4-Dimethylphenol	ND	2 J	ND	NS	50*
Fluoranthene	ND	2 J	ND	NS	50*
Fluorene	ND	19	ND	NS	50*
Naphthalene	ND	130	12	NS	10*
Phenanthrene	ND	22	ND	NS	50*

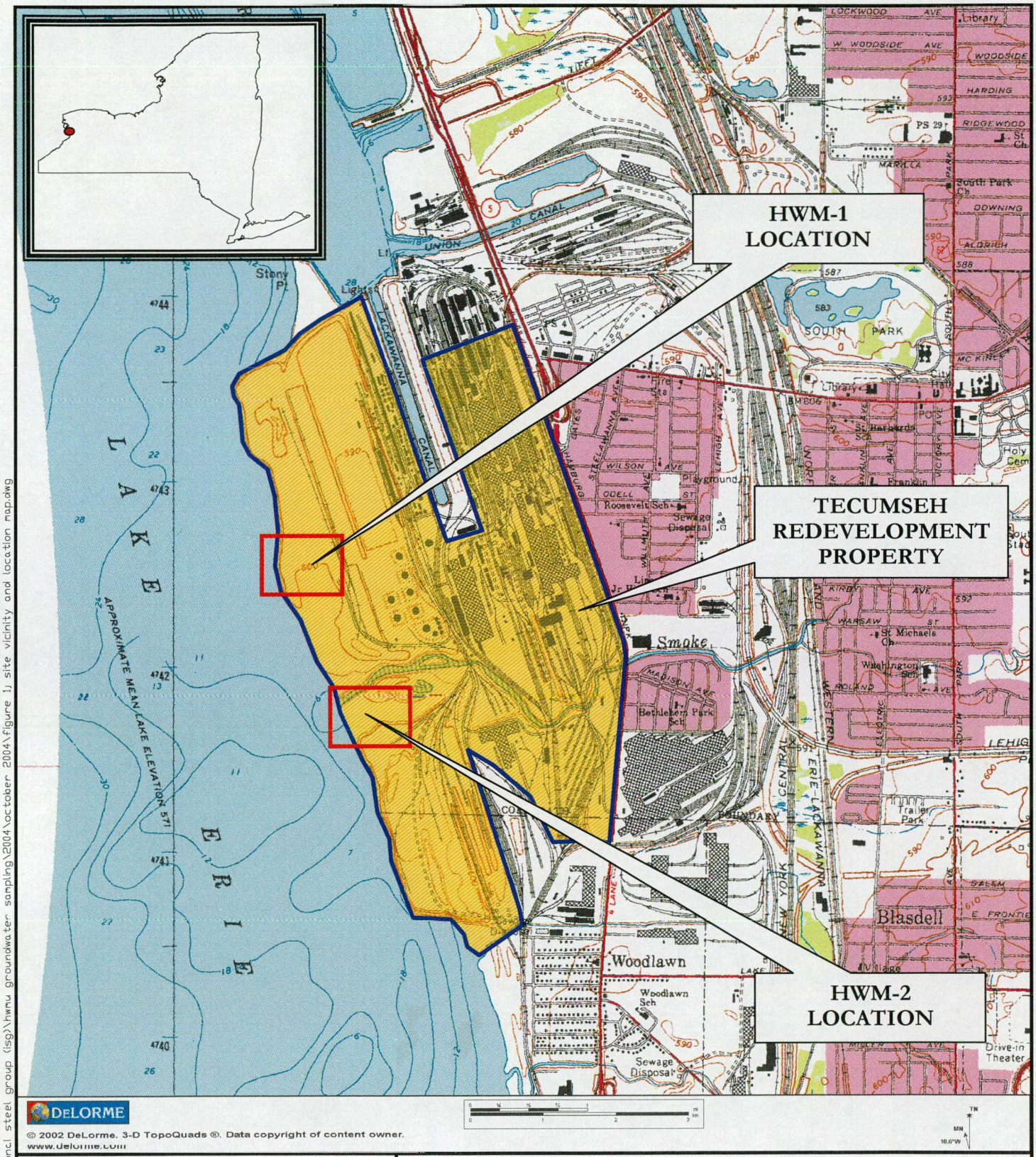
Notes:

1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
2. Shaded values represent exceedances of the GWQS.
3. Field measurements were collected immediately before and after groundwater sample collection.
4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as per 6 NYCRR Part 703.
5. "ND" indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).
6. NA = Not available
7. NS = monitoring well not sampled; dry.
8. J=Estimated value

* The Guidance Value was used where a Standard has not been established.

FIGURES

FIGURE 1



TN
MN
10.6°W

TurnKey Environmental Restoration, LLC
726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

PROJECT NO.: 0071-002-600
DATE: NOVEMBER 2004
DRAFTED BY: BCH

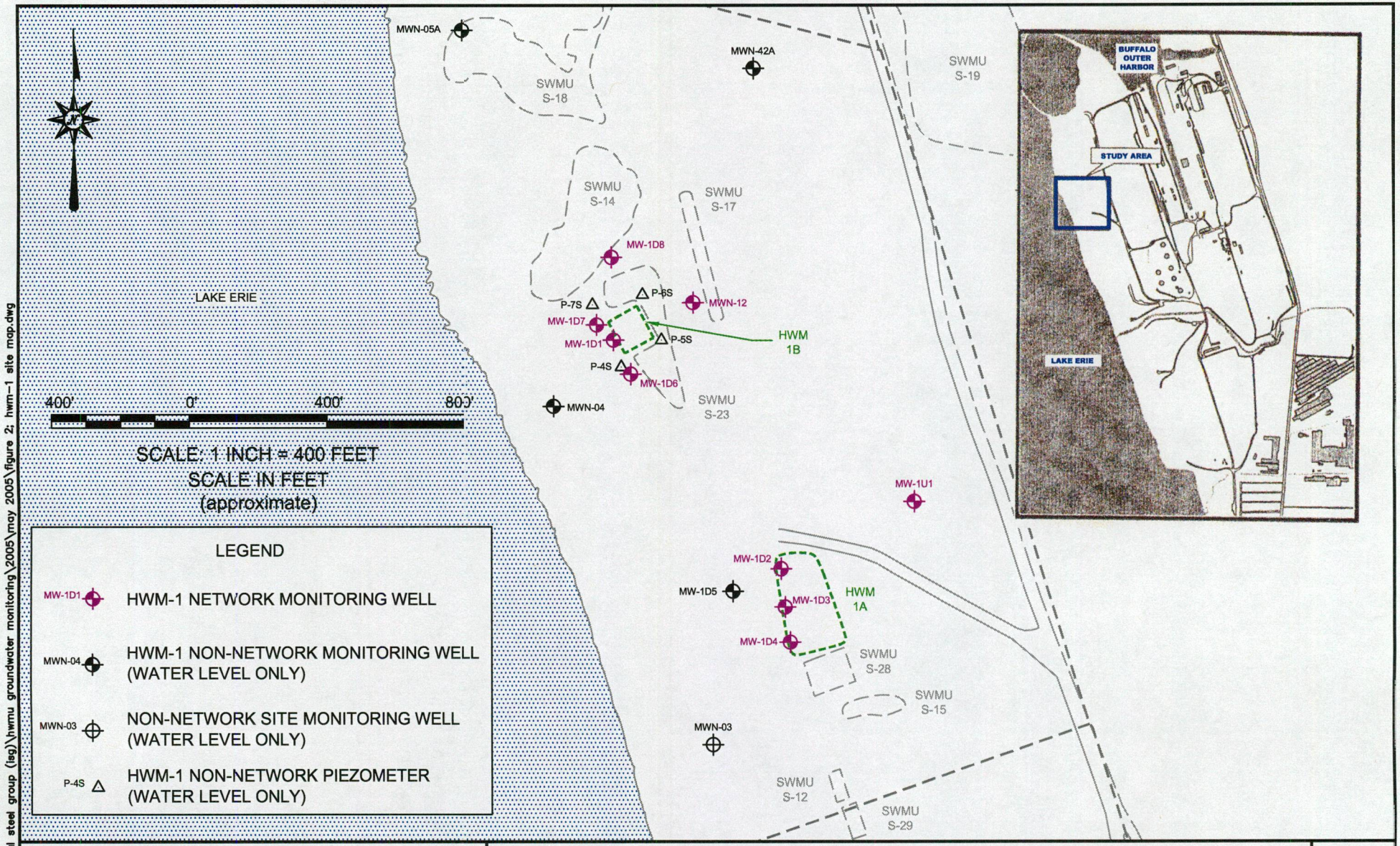
SITE VICINITY AND LOCATION MAP

HWM-1 & HWM-2 SEMI-ANNUAL GW MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT, INC.

FILEPATH(\cad\turnkey\International steel group (isg)\hwmu groundwater sampling\2004\october 2004\figure 1 site vicinity and location map.dwg



FILEPATH: g:\cad\turnkey\international steel group (isg)\hwmu groundwater monitoring\2005\may 2005\figure 2: hwm-1 site map.dwg

TURNKEY ENVIRONMENTAL RESTORATION, LLC

726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

PROJECT NO.: 0071-005-600

DATE: MAY 2005

DRAFTED BY: BCH

HWM-1 SITE MAP

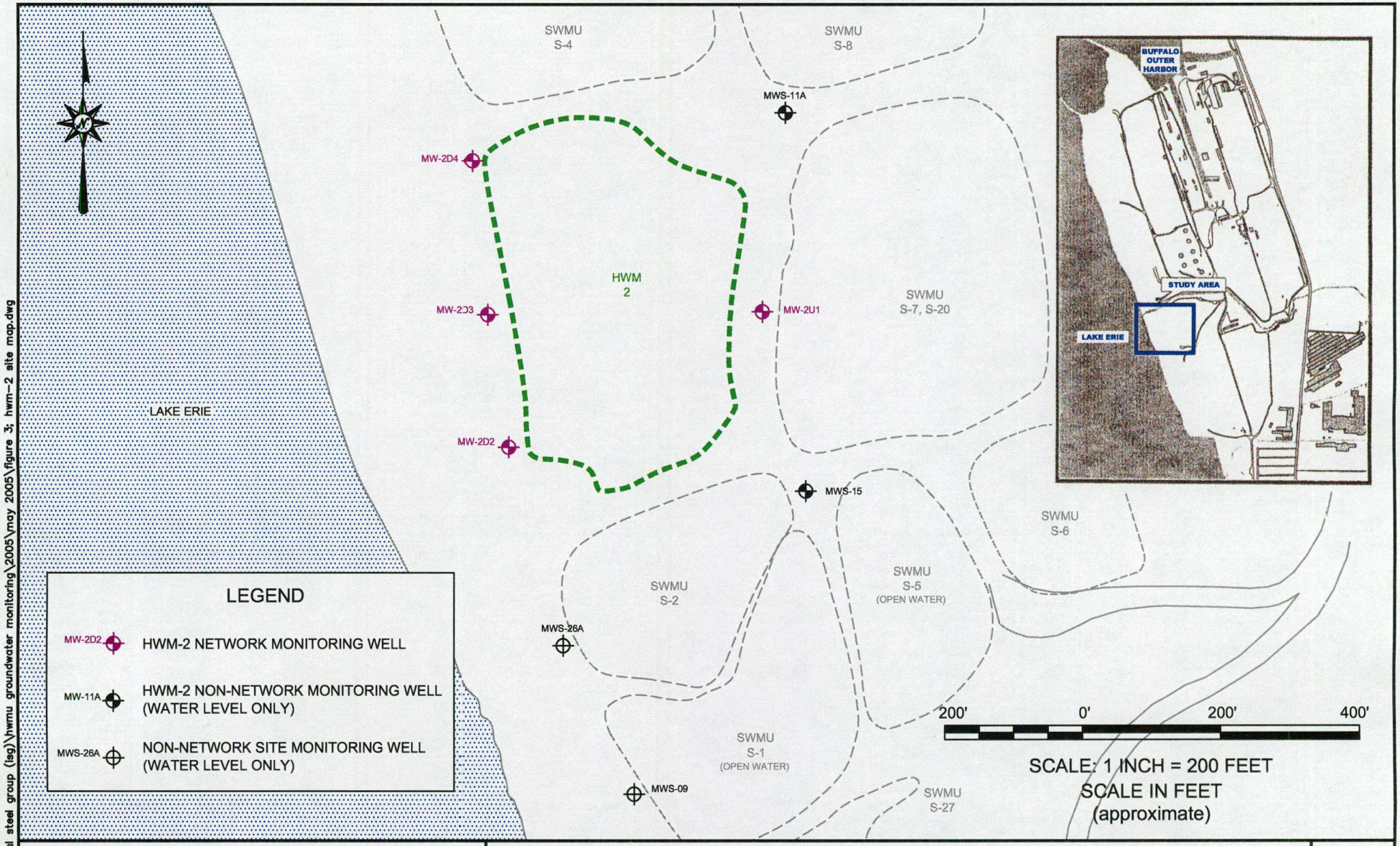
HWM-1 & HWM-2 SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT, INC.

FIGURE 2



LEGEND

- MW-2D2 — HWM-2 NETWORK MONITORING WELL
- MW-11A — HWM-2 NON-NETWORK MONITORING WELL (WATER LEVEL ONLY)
- MWS-26A — NON-NETWORK SITE MONITORING WELL (WATER LEVEL ONLY)

TURNKEY ENVIRONMENTAL RESTORATION, LLC

726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

PROJECT NO.: 0071-005-600

DATE: MAY 2005

DRAFTED BY: BCH

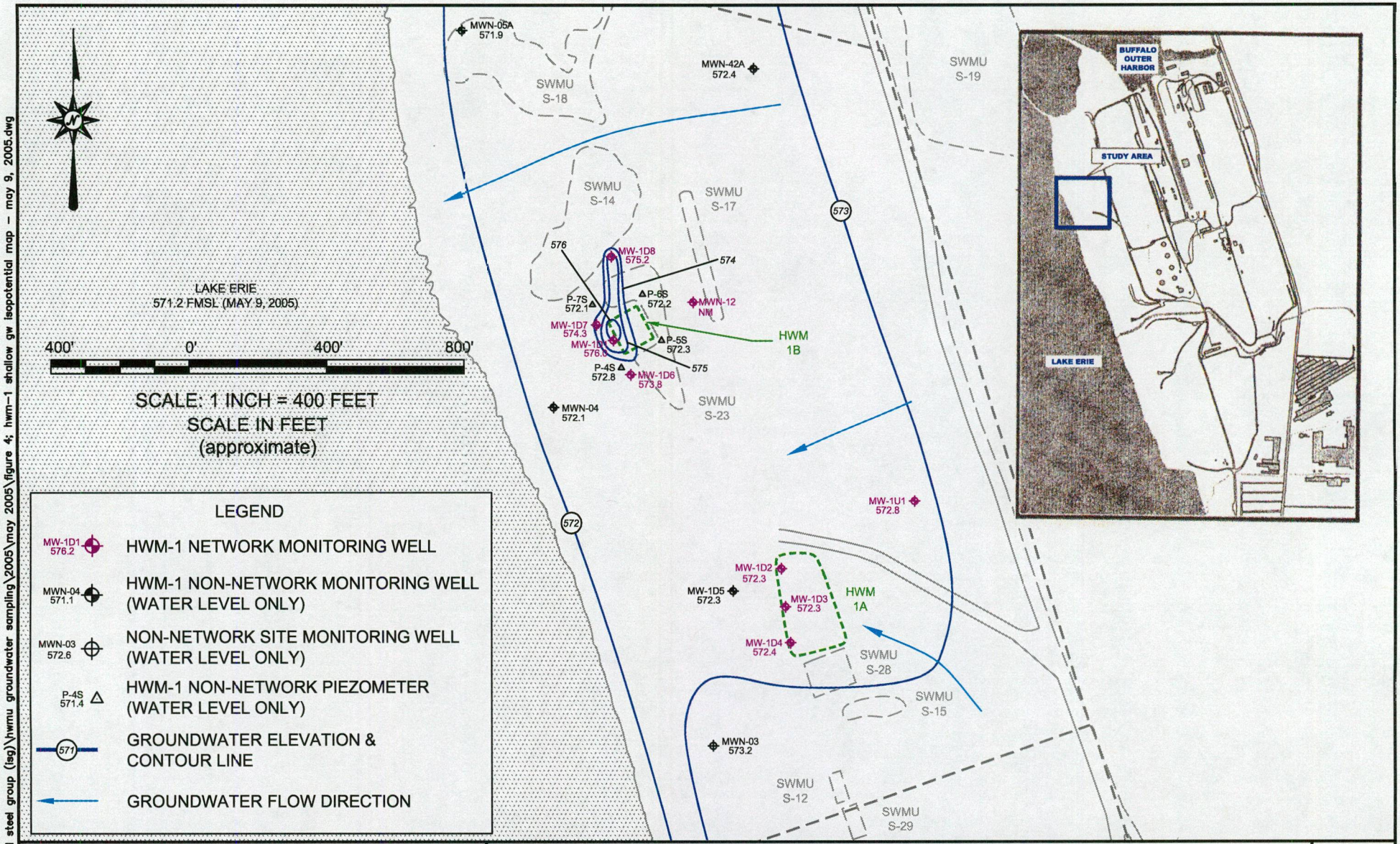
HWM-2 SITE MAP

HWM-1 & HWM-2 SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK
PREPARED FOR
TECUMSEH REDEVELOPMENT, INC.

FIGURE 3

FILEPATH: g:\cad\turnkey\international steel group (isg)\hwmu groundwater monitoring\2005\may 2005\figure 3; hwm-2 site map.dwg



FILEPATH: g:\cad\turnkey\international steel group (isg)\hwmu groundwater sampling\2005\may 2005\figure 4; hwm-1 shallow gw isopotential map - may 9, 2005.dwg

TURNKEY ENVIRONMENTAL RESTORATION, LLC

726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

PROJECT NO.: 0071-002-600

DATE: MAY 2005

DRAFTED BY: BCH

HWM-1 SHALLOW GROUNDWATER ISOPOTENTIAL MAP MAY 9, 2005

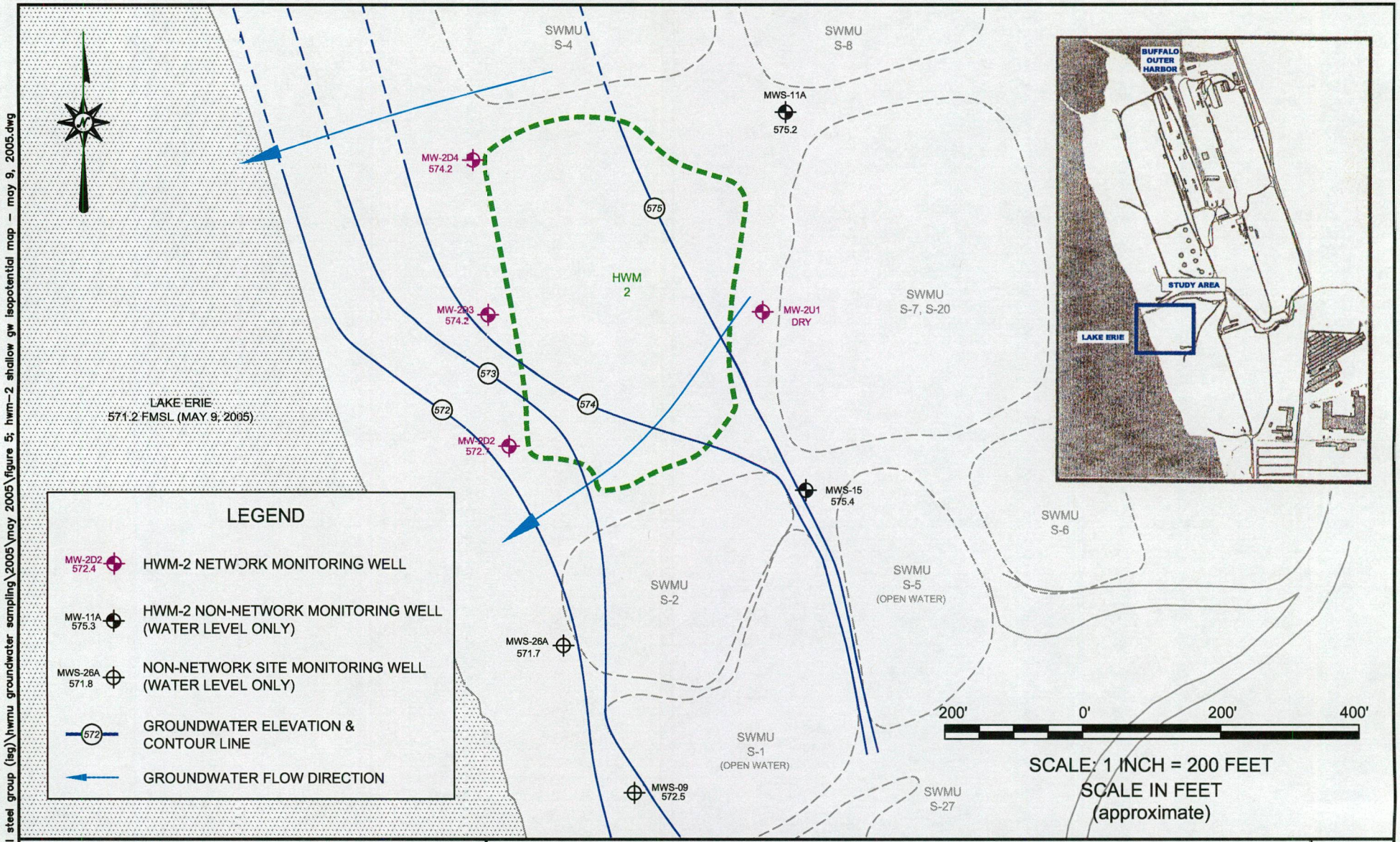
HWM-1 & HWM-2 SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT, INC.

FIGURE 4



FILEPATH: g:\cad\turnkey\international steel group (isg)\hwmu groundwater sampling\2005\may 2005\figure 5; hwm-2 shallow gw isopotential map - may 9, 2005.dwg

TurnKey Environmental Restoration, LLC
726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0635

PROJECT NO.: 0071-005-300

DATE: MAY 2005

DRAFTED BY: BCH

HWM-2 SHALLOW GROUNDWATER ISOPOTENTIAL MAP MAY 9, 2005

HWM-1 & HWM-2 SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

FORMER BETHLEHEM STEEL LACKAWANNA COKE DIVISION SITE
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT, INC.

FIGURE 5

APPENDIX A

LOW-FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOGS

= sampled

ATTACHMENT 4

MAY 2005 GROUNDWATER ELEVATIONS

TECUMSEH REDEVELOPMENT, INC.
HWM-1A & 1B, HWM-2 MANAGEMENT FACILITIES

Location	Date	Reference Point	Ref. Point Elevation [1] (fmsl)	Water Depth Below Ref. Pt. (feet)	Water Table Elevation [1] (fmsl)
HWM-1A & 1B MONITORING WELLS					
MW-1D1	05/09/05	TOR	610.59	34.59	610.59
MW-1D2	05/09/05	TOR	614.46	42.20	614.46
MW-1D3	05/09/05	TOR	612.69	40.40	612.69
MW-1D4	05/09/05	TOR	612.52	40.15	612.52
MW-1D5 NOT	05/09/05	TOR	613.49	41.17	613.49
MW-1D6	05/09/05	TOR	610.94	37.13	610.94
MW-1D7	05/09/05	TOR	611.26	36.93	611.26
MW-1D8	05/09/05	TOR	610.74	35.50	610.74
MW-1U1	05/09/05	TOC	613.18	40.40	613.18
MWN-03	05/09/05	TOR	613.20	39.98	613.20
MWN-04	05/09/05	TOR	623.45	51.35	623.45
MWN-05A	05/09/05	TOR	622.84	50.90	622.84
MWN-12	05/09/05	TOR	608.59	NM	608.59
P-4S	05/09/05	TOR	610.85	38.05	610.85
P-5S	05/09/05	TOR	616.71	44.40	616.71
P-6S	05/09/05	TOR	618.92	46.77	618.92
P-7S	05/09/05	TOR	610.59	38.46	610.59
HWM-2 MONITORING WELLS					
MW-2D2	05/09/05	TOR	632.11	59.40	632.11
MW-2D3	05/09/05	TOR	636.52	62.30	636.52
MW-2D4	05/09/05	TOR	630.44	56.25	630.44
MW-2U1	05/09/05	TOR	628.32	DRY	628.32
MWS-11A	05/09/05	TOR	640.85	65.68	640.85
MWS-15	05/09/05	TOR	628.38	53.01	628.38
MWS-26A	05/09/05	TOR	624.80	53.11	624.80
MWS-09	05/09/05	TOR	630.82	58.29	630.82
LAKE ERIE					
Lake Erie [2]	05/09/05	NA	NA	NA	571.21

Notes: MWN-42A 5/11/05 WL 7.00 Bottom 16.95

1. Elevation is measured in feet; distance above mean sea level (fmsl).
2. 1985 International Great Lakes Datum. Source: US Army Corp of Engineers Buffalo, New York

TurnKey Environmental Restoration, LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: HMWU 62 GW Sampling Spring Event

Date: 5/11/05

Project No.: 0071-005-600

Client: Tecumseh Redevelopment, Inc.

Instrument Source: ☒ TK ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	READING	SETTINGS
☒ pH meter	units	838	Myron L Company Ultra Meter 6P	606987	TAB	4.00	3.80	4.00
						7.00	7.04	7.00
						10.01	10.08	10.00
☒ Turbidity meter	NTU	844	Hach 2100P Turbidimeter	970600014560	TAB	< 0.4	.36	.1
						20	21.3	20
						100	98.7	100
						800	790	800
☐ Sp. conductance meter	uS/mS		Myron L Company Ultra Meter 6P	606987		____ µS @ 25 °C		
☐ PID	ppm		Photovac 2020 PID	ED GK 301		open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☐ Particulate meter	mg/m³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		
☐								

ADDITIONAL REMARKS:

PREPARED BY: Thomas A Rea **DATE:** 5/11/05

TurnKey Environmental Restoration, LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: HMW4 1Q2 GW sampling Spring Event Date: 5/12/05

Project No.: 0071-005-600

Client: Tecumseh Redevelopment, Inc. Instrument Source: ☒ TK ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	READING	SETTINGS
☒ pH meter	units	~~857~~ 857 TAB	Myron L Company Ultra Meter 6P	606987	TAB	4.00 TAB	~~4.00~~ 3.99	4.00
						7.00	~~7.04~~	7.00
						10.01 TAB	~~10.09~~ 9.99	10.00
☒ Turbidity meter	NTU	815	Hach 2100P Turbidimeter	970600014560	TAB	< 0.4	.43	.1
						20	21.3	20
						100	102	100
						800	792	800
☐ Sp. conductance meter	uS/mS		Myron L Company Ultra Meter 6P	606987		____ µS @ 25 °C		
☐ PID	ppm		Photovac 2020 PID	ED GK 301		open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☐ Particulate meter	mg/m³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		
☐								

ADDITIONAL REMARKS:

PREPARED BY: Thomas A Pelt **DATE:** 5/12/05

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-2 Groundwater Monitoring	WELL LOCATION:	~~MW-2U1~~ MW-101
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny 70°F

WELL DATA:

DATE: 5/11/05 TIME: 1052

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	32.79 ~~49.9~~ - ~~59.9~~ 42.79	Screen Material:	PVC
Static Water Level (fbTOR):	34.61	Bottom Depth (fbTOR):	44.45 ~~61.40~~
Elevation Top of Well Riser (fmsl):	~~628.32~~	Ground Surface Elevation (fmsl):	626.92
Elevation Top of Screen (fmsl):	~~578.45~~	Stick-up (feet):	1.40
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	15.0		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	44.00	Approximate Purge Rate (gal/min):	0.17

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:00	37.50	.50	7.99	17.4	4521	4.99	1.22	+82	clear
11:04	35.55	1	10.34	16.9	4505	2.07	0.58	-11	clear
11:09	35.70	1.5	10.41	17.1	4492	1.13	0.81	-22	clear
11:12	35.81	2.00	10.48	17.1	4461	1.04	0.95	-25	clear

SAMPLING DATA:

DATE: 5/11/05 START TIME: 1113 END TIME: 1149

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	36.05	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	36.63	Field Personnel:	RLD/MAS

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	Clear
Odor:	Solvent type
Sediment Present?	NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
10.68	17.2	4345	0.95	~~0.83~~	-19
10.97	17.1	2710	095	1.39	-26

REMARKS: Setting at 133mHz MS/MSD Taken

PREPARED BY: RLD

TURNKEY ENVIRONMENTAL RESTORATION, LLC

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1D2**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	45°F Sunny

WELL DATA:

DATE: 5/12/05 TIME: 1113

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	34.3 - 44.3	Screen Material:	PVC
Static Water Level (fbTOR):	42.29	Bottom Depth (fbTOR):	49.50
Elevation Top of Well Riser (fmsl):	614.46	Ground Surface Elevation (fmsl):	613.27
Elevation Top of Screen (fmsl):	580.20	Stick-up (feet):	1.19
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	4.75		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):		Approximate Purge Rate (gal/min):	0.25 gpm

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1126	Initial 42.46	-	11.91	11.8	2528	7.4	1.46	-250	Clear
1129	42.46	.25	11.91	12.6	2569	6	1.78	-254	clear
1132	42.49	1.75	12.04	13.0	2557	3.6	1.91	-257	clear
1134	42.51	2.00	11.97	13.4	2566	2.8	1.35	-258	clear
			~~11.92~~	~~13.5~~	~~2406~~	~~2.23~~		~~-263~~	~~clear~~

SAMPLING DATA:

DATE: 5/12/05 START TIME: 1136 END TIME: 1145

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	42.54	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	42.51	Field Personnel:	RLD / TAB

PHYSICAL & CHEMICAL DATA:

Appearance:	Clear
Color:	clear
Odor:	Solvent/Organic
Sediment Present?	NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.96	13.4	2557	2.85	1.88	-264
11.92	13.5	2406	2.23	1.95	-263

REMARKS: Pump setting out 147 mHz

PREPARED BY: RLD

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1D3**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	45°F Sunny

WELL DATA:

DATE: 5-12-05 TIME: 12:50

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	33.8 - 43.8	Screen Material:	PVC
Static Water Level (fbTOR):	40.49	Bottom Depth (fbTOR):	48.10
Elevation Top of Well Riser (fmsl):	612.69	Ground Surface Elevation (fmsl):	611.52
Elevation Top of Screen (fmsl):	578.90	Stick-up (feet):	1.17
Standing volume in gallons:	5.02		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	48.00	Approximate Purge Rate (gal/min):	~~0.5~~ 0.6

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	Initial								
~~1250~~ 1253	40.63	1	11.90	12.1	4396	5	0.74	-350	Clear
1259	40.63	2	11.91	12.6	4276	9.5	1.09	-360	clear
1302	40.63	3	11.88	12.9	3542	6.2	1.15	-340	Clear
1303	40.63	4	11.83	12.7	3231	5.2	1.25	-331	Clear

SAMPLING DATA:

DATE: 5-12-05 START TIME: 13:04 END TIME: 13:11

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	40.63	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	40.63	Field Personnel:	RLO / TAS

PHYSICAL & CHEMICAL DATA:

Appearance:	Clear
Color:	Clear
Odor:	
Sediment Present?	NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.89	12.5	3046	1.09	2.09	-310
11.75	12.6	2828	2.08	1.64	-330

REMARKS:

PREPARED BY: RLO

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name: HWM-1A & 1B Groundwater Monitoring
WELL LOCATION: **MW-1D4**
Project Number: 0071-005-600
Sample Matrix: groundwater
Client: Tecumseh Redevelopment, Inc.
Weather:

WELL DATA:

DATE: 5-12-05 TIME: 1321

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	33.6 - 43.6	Screen Material:	PVC
Static Water Level (fbTOR):	40.25	Bottom Depth (fbTOR):	46.39
Elevation Top of Well Riser (fmsl):	612.52	Ground Surface Elevation (fmsl):	609.59
Elevation Top of Screen (fmsl):	578.90	Stick-up (feet):	2.93
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	6.26		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location? (yes) no
Is tubing dedicated to location? (yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):
Approximate Purge Rate (gal/min): ~~1 6pm~~ 0.44

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1327	Initial	-	11.71	11.5	2656	3.20	1.28	-301	Clear
1329	40.41	1.5	11.86	12.3	2555	2.52	1.64	-304	Clear
1332	40.41	3	11.91	12.4	2534	2.17	1.55	-304	Clear
1336	40.41	4	11.94	12.8	2522	2.85	1.41	-292	Clear

SAMPLING DATA:

DATE: 5-12-05 START TIME: 1337 END TIME: 1344

Method: low-flow with dedicated tubing
Was well sampled to dryness? yes (no)
Was well sampled below top of sand pack? yes (no)
Initial Water Level (fbTOR): 40.41
Final Water Level (fbTOR): 40.41
Field Personnel: RLO/TAS

PHYSICAL & CHEMICAL DATA:

Appearance: Clear
Color: Clear
Odor:
Sediment Present? NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.85	12.4	2484	1.41	1.65	-291
11.89	12.4	2455	0.99	1.41	-299

REMARKS: Pump set by at 1417 on 12

PREPARED BY: RLO

TurnKey Environmental Restoration, LLC

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1D6**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny

WELL DATA:

DATE: 5/12/05 TIME: ~~1026~~ 0934

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	34.3 - 44.3	Screen Material:	SS
Static Water Level (fbTOR):	37.19	Bottom Depth (fbTOR):	42.15
Elevation Top of Well Riser (fmsl):	610.94	Ground Surface Elevation (fmsl):	608.28
Elevation Top of Screen (fmsl):	576.60	Stick-up (feet):	2.66
Standing volume in gallons:	0.84		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	42.00	Approximate Purge Rate (gal/min):	~~0.15 gpm~~ 0.13

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (μS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	Initial								
0940	38.55	.25	11.14	12.6	2873	4.50	1.75	-150	Clear
0944	38.68	.35	11.21	13.9	2916	4.50	1.68	-181	Clear
0945	38.68	.50	11.26	14.2	2980	1.94	1.74	-185	Clear
0948	38.45	1.00	11.33	14.4	3027	2.67	1.63	-164	Clear

SAMPLING DATA:

DATE: 5/12/05 START TIME: 0953 END TIME: 1014

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	38.09	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	37.81	Field Personnel:	RLD/MB

PHYSICAL & CHEMICAL DATA:

		WATER QUALITY MEASUREMENTS					
		pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
Appearance:	Clear						
Color:	Clear						
Odor:		11.22	14.7	2987	1.81	1.50	-181
Sediment Present?	NO	11.15	13.0	2980	1.51	—	-186

REMARKS: Pump setting at 135 mHz

~~Insufficient well volume for 2nd water quality measurements~~

PREPARED BY: RLD

HWM-1A & 1B - Low flow Sampling Data Sheets.xls.xls
MW-1D6

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1D7**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	SUNNY 70°F

WELL DATA:

DATE: 5/11/05 TIME: 1258

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	33.7 - 44.7	Screen Material:	SS
Static Water Level (fbTOR):	38.98	Bottom Depth (fbTOR):	45.45
Elevation Top of Well Riser (fmsl):	611.26	Ground Surface Elevation (fmsl):	608.67
Elevation Top of Screen (fmsl):	577.60	Stick-up (feet):	2.59
Standing volume in gallons:	1.10		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	43.00	Approximate Purge Rate (gal/min):	~~1gpm~~ 0.9

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1310	38.01 Initial	2.0	8.22	17.2	3012	3.18	0.63	-194	clear
1313	32.85	4.0	7.89	17.2	3126	2.05	0.92	-214	clear
1315	37.85	4.50	7.78	17.2	3176	1.62	0.98	-218	clear

SAMPLING DATA:

DATE: 5/11/05 START TIME: ~~1317~~ 1318 END TIME: 1340

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	~~yes~~ (no)
Initial Water Level (fbTOR):	37.63	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):		Field Personnel:	RLO MMS

PHYSICAL & CHEMICAL DATA:

		WATER QUALITY MEASUREMENTS					
Appearance:	clear	pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
Color:	clear						
Odor:	~~solvent~~ solvent/ORGANIC	7.72	17.2	3169	1.63	0.88	-222
Sediment Present?	NO	7.65	17.4	3187	1.58	0.90	-235

REMARKS:

PREPARED BY: RLO

TurnKey Environmental Restoration, LLC

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1D8**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny 70°F

WELL DATA:

DATE: 5/11/05 TIME: 1342

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	33.9 - 43.9	Screen Material:	SS
Static Water Level (fbTOR):	35.52	Bottom Depth (fbTOR):	43.55
Elevation Top of Well Riser (fmsl):	610.74	Ground Surface Elevation (fmsl):	607.94
Elevation Top of Screen (fmsl):	576.80	Stick-up (feet):	2.80
Standing volume in gallons:	1.36		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	43.00	Approximate Purge Rate (gal/min): ~~0.15~~	0.34

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1350	Initial 35.39	0.25	9.41	16.5	2521	12.4	0.71	-95	clear
1355	36.07	1.75	9.62	16.2	2482	2.87	0.72	-83	clear
1357	36.23	2.25	9.71	15.9	2468	1.91	0.91	-90	clear
1401	36.35	3.75	9.53	16.1	2467	0.62	0.85	-73	clear

SAMPLING DATA:

DATE: 5/11/05 START TIME: 1403 END TIME: 1417

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	36.40	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	36.60	Field Personnel:	RLD / TAB

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	clear
Odor:	solvent/organic
Sediment Present?	no

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
9.58	~~16.2~~	2477	0.52	1.05	-67
9.62	16.2	2514	0.41		-83

REMARKS: Blind Duplicate Taken

PREPARED BY: RLD

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MW-1U1**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	45°F Sunny

WELL DATA:

DATE: 5/12/05 TIME: 1033

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	33.9 - 63.9	Screen Material:	PVC
Static Water Level (fbTOR):	40.45	Bottom Depth (fbTOR):	66.50
Elevation Top of Well Riser (fmsl):	613.18	Ground Surface Elevation (fmsl):	612.54
Elevation Top of Screen (fmsl):	579.30	Stick-up (feet):	0.64
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	17.16		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):		Approximate Purge Rate (gal/min):	~~0.15~~ 0.11

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	Initial								
1050	40.45	0.10	11.88	10.9	2709	41	2.20	-208	clear
1053	40.44	.35	11.94	11.7	2671	184	1.81	-216	~~clear~~ cloudy
1057	40.44	.75	11.81	12.6	2682	74	2.04	-222	cloudy
1059	40.44	1	11.90	12.9	2682	29	2.06	-223	~~cloudy~~/clear

SAMPLING DATA:

DATE: 5/12/05 START TIME: 1054 END TIME: 1106

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	(yes) no
Initial Water Level (fbTOR):	40.44	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	40.44	Field Personnel:	RLD JMS

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	clear
Odor:	
Sediment Present?	NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.84	13	2674	10	1.17	-234
11.96	12.4	2672	7	1.26	-225

REMARKS:

PREPARED BY: RLD

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

TurnKey Environmental Restoration, LLC

Project Name:	HWM-1A & 1B Groundwater Monitoring	WELL LOCATION:	**MWN-12**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	42 °F Sunny

WELL DATA:

DATE: 5/12/05 TIME: 0839

Casing Diameter (inches):	2	Riser Material:	PVC
Screened interval (fbTOR):	28.8 - 38.8	Screen Material:	SS
Static Water Level (fbTOR):	36.48	Bottom Depth (fbTOR):	40.40
Elevation Top of Well Riser (fmsl):	608.59	Ground Surface Elevation (fmsl):	606.54
Elevation Top of Screen (fmsl):	579.80	Stick-up (feet):	2.05
Standing volume in gallons:	2.58		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	40.40	Approximate Purge Rate (gal/min):	~~0.50/0.75~~ 0.29

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	Initial								
0844	36.62	1	12.10	12.0	3021	1.70	1.04	-253	clear
0852	36.62	1.75	11.88	12.5	3084	1.48	1.31	-255	clear
0856	36.62	2	11.92	12.4	3097	0.64	1.11	-249	clear

SAMPLING DATA:

DATE: 5/12/05 START TIME: 0857 END TIME: 0908

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	36.62	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	36.62	Field Personnel:	RLD / TAS

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	Clear
Odor:	
Sediment Present?	no

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.90	12.3	3134	0.35	0.81	-247
11.89	12.5	3137	0.58	1.18	-239

REMARKS: pump setting at 135 mAZ

PREPARED BY: RLD

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-2 Groundwater Monitoring	WELL LOCATION:	**MW-2D2**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny ~~35°F~~ 50°F

WELL DATA:

DATE: 5/12/05 TIME: 1401

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	52.9 - 62.9	Screen Material:	PVC
Static Water Level (fbTOR):	59.53	Bottom Depth (fbTOR):	65.20
Elevation Top of Well Riser (fmsl):	631.11	Ground Surface Elevation (fmsl):	629.84
Elevation Top of Screen (fmsl):	578.20	Stick-up (feet):	1.27
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	5.78		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):		Approximate Purge Rate (gal/min):	~~1 GPM~~ 0.43

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
~~1400~~	Initial								
1411	59.72	.50	10.65	15.9	1800	2.18	1.32	-239	clear
1413	59.76	1.50	10.52	17.2	1708	2.09	1.07	-225	clear
1415	59.80	2.25	10.33	18.2	1687	1.60	1.56	-182	clear
1418	59.92	3.00	10.28	18.8	1680	1.24	1.20	-164	clear

SAMPLING DATA:

DATE: 5-12-05 START TIME: 1418 END TIME: 1424

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	59.82	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	59.90	Field Personnel:	RLD JMS

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	clear
Odor:	
Sediment Present?	no

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
10.22	18.9	1671	1.11	1.83	-141
10.11	18.8	1671	0.98	1.53	-120

REMARKS: Pump setting at 174 mHz

PREPARED BY: RLD

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-2 Groundwater Monitoring	WELL LOCATION:	**MW-2D3**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny 50°F

WELL DATA:

DATE: 5-12-05 TIME: 1433

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	57.8 - 67.8	Screen Material:	PVC
Static Water Level (fbTOR):	62.23	Bottom Depth (fbTOR):	67.20
Elevation Top of Well Riser (fmsl):	636.52	Ground Surface Elevation (fmsl):	635.18
Elevation Top of Screen (fmsl):	578.70	Stick-up (feet):	1.34
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]:	5.06		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):		Approximate Purge Rate (gal/min):	~~0.25~~ 0.5

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1440	Initial		11.00	16.5	1746	1.83	1.24	-229	clear
1442	62.40	1.75	11.00	17.7	1757	2.24	1.38	-236	clear
1445	62.40	2.25	11.04	18.2	1724	3.15	1.20	-244	clear
1447	62.47	3.50	11.01	18.5	1713	2.55	2.14	-224	clear

SAMPLING DATA:

DATE: 5-12-05 START TIME: 1448 END TIME: 1455

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	62.47	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	62.48	Field Personnel:	RLO / JAS

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	clear
Odor:	
Sediment Present?	NO

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
11.01	18.6	1706	2.72	1.64	-231
10.42	18.5	1692	2.49	0.30	-234

REMARKS:

PREPARED BY: RLO

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name:	HWM-2 Groundwater Monitoring	WELL LOCATION:	**MW-2D4**
Project Number:	0071-005-600	Sample Matrix:	groundwater
Client:	Tecumseh Redevelopment, Inc.	Weather:	Sunny 50°F

WELL DATA:

DATE: 5-12-05 TIME: 15:05

Casing Diameter (inches):	5	Riser Material:	PVC
Screened interval (fbTOR):	52.3 - 62.3	Screen Material:	PVC
Static Water Level (fbTOR):	56.36	Bottom Depth (fbTOR):	62.60
Elevation Top of Well Riser (fmsl):	630.44	Ground Surface Elevation (fmsl):	628.95
Elevation Top of Screen (fmsl):	578.10	Stick-up (feet):	1.49
Standing volume in gallons:	6.36		
[(bottom depth - static water level) x vol calculation in table per well diameter]:			

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: Grundfos submersible pump

Is equipment dedicated to location?	(yes) no	Is tubing dedicated to location?	(yes) no
Depth of Sample (i.e. Level of Intake) (fbTOR):	62.00	Approximate Purge Rate (gal/min): ~~1 GPM~~	0.8

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1512	Initial	-	8.78	16.0	1342	5.74	2.84	-118	clear
1513	57.55	1.5	8.40	16.3	1315	5.57	5.33	-79	clear
1515	57.85	3.5	8.27	16.7	1286	~~3.69~~	5.96	-33	clear
1517	58.22	4	8.25	17.0	1283	1.87	5.07	-15	clear

SAMPLING DATA:

DATE: 5-12-05 START TIME: 1518 END TIME: 1523

Method:	low-flow with dedicated tubing	Was well sampled to dryness?	yes (no)
Initial Water Level (fbTOR):	58.32	Was well sampled below top of sand pack?	yes (no)
Final Water Level (fbTOR):	58.90	Field Personnel:	RLD / MAB

PHYSICAL & CHEMICAL DATA:

Appearance:	clear
Color:	clear
Odor:	
Sediment Present?	no

WATER QUALITY MEASUREMENTS

pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
8.21	17.0	1273	1.77	5.26	-14
8.24	16.9	1250	~~1.50~~ 1.10	4.15	-54

REMARKS:

PREPARED BY: RLD

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

TC

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Tunkey Environmental Res	Tom Forbes		193159
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
726 Exchange st, Suite 624	(716) 856-0635		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Buffalo / NY / 14210	T. Behrendt	B Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260 VOC	8270 TCL SVOA	TAL	SME	Cl, SO4, Nitrate, TDS	GuBALK	T-Cr	Special Instructions/ Conditions of Receipt
MW-107	5/11/05	1340		X			X		X	X	X		2	2	1	1	1	1	1	
MW-108		1417		X			X		X	X	X		2	2	1	1	1	1	1	
MW-101 MS/MSD		1149		X			X		X	X	X		6	6	3	3	3	3	3	
Blind Dup		1200		X			X		X	X	X		2	2	1	1	1	1	1	
Trip Blank	4/29/05												1							

Possible Hazard Identification

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

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

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

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Thomas A Bu	5/12/05	1007	STL	5-12-05	10:05
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

NO TB required

5.0°C

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

Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Turnkey Environmental Restoration	Tom Forbes	5/12/05	193147
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
726 Exchange st Suite 624	(716) 695-6858		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Buffalo / NY / 14210	T. Behrendt	Brian Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260 VOC	8270 TCL SVOC	TAL ME	SM6	Cl, SO4, Nitrate, TDS	CARALK	TCN	Special Instructions/ Conditions of Receipt
MWN-12 ✓	5/12/05	0908		X			X		X	X	X		2	2	1	1	1	1	1	
MW-1D6 ✓		1614		X			X		X	X	X		2	2	1	1	1	1	1	
MW-1U1 ✓		1106		X			X		X	X	X		2	2	1	1	1	1	1	
MW-1D2 ✓		1145		X			X		X	X	X		2	2	1	1	1	1	1	
MW-1D3 ✓		1811		X			X		X	X	X		2	2	1	1	1	1	1	
MW-1D4 ✓		1344		X			X		X	X	X		2	2	1	1	1	1	1	
MW-2D2 ✓		1424		X			X		X	X	X		2	2	1	1	1	1	1	
MW-2D3 ✓		1455		X			X		X	X	X		2	2	1	1	1	1	1	
MW-2D4 ✓		1523		X			X		X	X	X		2	2	1	1	1	1	1	
Trip Blank	4/29/05			X						X			1							

Possible Hazard Identification

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

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

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

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Thomas A Rud	5/13/05	1036	STL	5-13-05	14:30
2.						
3.						

Comments

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

APPENDIX B

SEVERN TRENT LABORATORIES, INC.
SAMPLE DATA SUMMARY PACKAGE

(Due to the size of this attachment, only the raw data is provided; the full package is available upon request)

SEVERN TRENT STL

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

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

1/2271

ANALYTICAL REPORT

Job#: A05-4798,A05-4892

STL Project#: NY3A9073
SDG#: 4798
Site Name: Turnkey Environmental Restoration, LLC
Task: TECUMSEH REDEVELOPMENT - HWM 1 & 2

Mr. Tom Forbes
Turnkey/Benchmark
726 Exchange St., Suite 624
Buffalo, NY 14210

STL Buffalo

Brian J. Fischer
Project Manager

06/08/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5479801	BLIND DUP	WATER	05/11/2005	12:00	05/12/2005	10:05
A5489201	MNW-12	WATER	05/12/2005	09:08	05/13/2005	14:30
A5479802	MW-1D1	WATER	05/11/2005	11:49	05/12/2005	10:05
A5479802MS	MW-1D1	WATER	05/11/2005	11:49	05/12/2005	10:05
A5479802SD	MW-1D1	WATER	05/11/2005	11:49	05/12/2005	10:05
A5489202	MW-1D2	WATER	05/12/2005	11:45	05/13/2005	14:30
A5489203	MW-1D3	WATER	05/12/2005	13:11	05/13/2005	14:30
A5489204	MW-1D4	WATER	05/12/2005	13:44	05/13/2005	14:30
A5489205	MW-1D6	WATER	05/12/2005	10:14	05/13/2005	14:30
A5479803	MW-1D7	WATER	05/11/2005	13:40	05/12/2005	10:05
A5479804	MW-1D8	WATER	05/11/2005	14:17	05/12/2005	10:05
A5489206	MW-1U1	WATER	05/12/2005	11:06	05/13/2005	14:30
A5489207	MW-2D2	WATER	05/12/2005	14:24	05/13/2005	14:30
A5489208	MW-2D3	WATER	05/12/2005	14:55	05/13/2005	14:30
A5489209	MW-2D4	WATER	05/12/2005	15:23	05/13/2005	14:30
A5489210	TRIP BLANK	WATER	05/12/2005		05/13/2005	14:30

METHODS SUMMARY

Job#: A05-4798,A05-4892

STL Project#: NY3A9073
SDG#: 4798
Site Name: Turnkey Environmental Restoration, LLC

PARAMETER	ANALYTICAL METHOD
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W	SW8463 8260/5ML
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W	SW8463 8270
Antimony - Soluble	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Soluble	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Soluble	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Soluble	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Soluble	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Soluble	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Soluble	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Soluble	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Soluble	SW8463 7470
Mercury - Total	SW8463 7470
Nickel - Soluble	SW8463 6010
Nickel - Total	SW8463 6010
Potassium - Soluble	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Soluble	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Soluble	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Soluble	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Soluble	SW8463 6010
Thallium - Total	SW8463 6010
Carbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
Cyanide - Total	SW8463 9012
Nitrate	MCAWW 353.2
Sulfate	MCAWW 300.0
Total Dissolved Solids	MCAWW 160.1

References:

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

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

NON-CONFORMANCE SUMMARY

Job#: A05-4798,A05-4892

STL Project#: NY3A9073
SDG#: 4798
Site Name: Turnkey Environmental Restoration, LLC

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

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

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

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

Sample Receipt Comments

A05-4798
Sample Cooler(s) were received at the following temperature(s); 5.0 °C
No trip blank was received.
A05-4892
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The relative percent difference between the Matrix Spike and the Matrix Spike Duplicate of sample MW-1D1 exceed quality control limits for the analyte 1,1-Dichloroethene, though all individual analyte recoveries are compliant.

All samples were preserved to a pH less than 2.

The analyte 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limit for the analyte 2-chloroethyl vinyl ether is not reliable or defensible.

Initial calibration standard curve A5I0001561-1 exhibited the %RSD of the compound Chloroethane as greater than 15%. However, the mean RSD of all compounds is 6.93%.

Initial calibration standard curve A5I0001562-1 exhibited the %RSD of the compound Chloroethane as greater than 15%. However, the mean RSD of all compounds is 6.20%.

GC/MS Semivolatile Data

The analyte Bis(2-ethylhexyl)phthalate was detected in the Method Blanks A5B0715102 and A5B0720102 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes 3-Methylphenol and 4-Methylphenol coelute and can not be analtyically separated. The reported concentrations for these analytes are therefore a 'total' number, rather than individual quantitated values.

Metals Data

The recovery of sample MW-1D1 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Calcium and Potassium. The sample result is more than four times greater than the spike added. The LFB (A5B0699401) is acceptable.

The recovery of sample MW-1D1-SOL Matrix Spike exhibited results below the quality control limits for Soluble Calcium and Potassium. The sample result is more than four times greater than the spike added. The LFB (A5B0698901) is acceptable.

The recovery for samples MW-1D1, MNW-12, and MNW-12-SOL exceeded quality control limits for Total and Soluble Calcium. However, the LFB's (A5B0699401 A5B0712301, and A5B0712001) are acceptable, therefore, no corrective action was necessary.

The LFB (A5B0699401) recovery for Antimony in Method 6010 was above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

Wet Chemistry Data

The recovery of sample MW-1D1 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Nitrate. However, the LCS was acceptable.

The values obtained for Nitrate on samples MW-1D2 and MW-2D2 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed.

The values reported for the LCS and Method Blanks for Carbonate Alkalinity do not represent actual values obtained as a result of an analytical procedure. The concentration of Carbonate Alkalinity in a sample with a pH less than 8.3 is zero. Thus, the LCS and Method Blank have values of zero. The values do not adversely affect any analytical results.

The values obtained for Total Dissolved Solids on samples MNW-12 and MW-1D4 have a TDS/Conductivity ratio outside the valid range. Reanalysis was performed and the values were confirmed.

****

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

Dilution Log w/Code Information
For Project NY3A9073, SDG 4798

10/2271

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
BLIND DUP	A5479801	Calcium - Total	5.00	008
BLIND DUP	A5479801	Chloride	5.00	008
BLIND DUP	A5479801	Sulfate	50.00	008
MW-1D1	A5479802	Calcium - Total	5.00	008
MW-1D1	A5479802	Chloride	20.00	008
MW-1D1	A5479802	Sulfate	50.00	008
MW-1D1	A5479802MS	Calcium - Total	5.00	008
MW-1D1	A5479802MS	Chloride	20.00	008
MW-1D1	A5479802MS	Sulfate	50.00	008
MW-1D1	A5479802SD	Calcium - Total	5.00	008
MW-1D1	A5479802SD	Chloride	20.00	008
MW-1D1	A5479802SD	Sulfate	50.00	008
MW-1D7	A5479803	Calcium - Total	5.00	008
MW-1D7	A5479803	Chloride	20.00	008
MW-1D7	A5479803	Sulfate	20.00	008
MW-1D8	A5479804	Calcium - Total	5.00	008
MW-1D8	A5479804	Chloride	20.00	008
MW-1D8	A5479804	Sulfate	20.00	008
MNW-12	A5489201	Chloride	5.00	004
MNW-12	A5489201	Sulfate	5.00	008
MW-1D2	A5489202	Chloride	5.00	004
MW-1D2	A5489202	Sulfate	5.00	008
MW-1D2 DL	A5489202DL	8270	5.00	008
MW-1D3	A5489203	8260/5ML	5.00	003
MW-1D3	A5489203	Chloride	5.00	004
MW-1D3	A5489203	Sulfate	10.00	008
MW-1D4	A5489204	Chloride	5.00	004
MW-1D4	A5489204	Sulfate	5.00	008
MW-1D4	A5489204MS	Chloride	5.00	008
MW-1D6	A5489205	Chloride	20.00	004
MW-1D6	A5489205	Sulfate	20.00	008
MW-1U1	A5489206	Chloride	5.00	008
MW-1U1	A5489206	Sulfate	5.00	008
MW-2D2	A5489207	Chloride	10.00	008
MW-2D2	A5489207	Sulfate	10.00	008
MW-2D3	A5489208	8260/5ML	5.00	003
MW-2D3	A5489208	Chloride	5.00	008
MW-2D3	A5489208	Sulfate	5.00	008
MW-2D4	A5489209	8260/5ML	5.00	003
MW-2D4	A5489209	Chloride	5.00	004

Dilution Code Definition:

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
MW-2D4	A5489209	Sulfate	5.00	008

Dilution Code Definition:

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

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS						
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	TCLP HERB	WATER QUALITY
BLIND DUP	A5479801	SW8463	SW8463	-	-	SW8463	-	MCAWW
MNW-12	A5489201	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D1	A5479802	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D2	A5489202	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D3	A5489203	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D4	A5489204	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D6	A5489205	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D7	A5479803	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D8	A5479804	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1U1	A5489206	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D2	A5489207	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D3	A5489208	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D4	A5489209	SW8463	SW8463	-	-	SW8463	-	MCAWW

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
BLIND DUP	WATER	05/11/2005	05/12/2005	-	05/18/2005
MNW-12	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-1D1	WATER	05/11/2005	05/12/2005	-	05/18/2005
MW-1D2	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-1D3	WATER	05/12/2005	05/13/2005	-	05/19/2005
MW-1D4	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-1D6	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-1D7	WATER	05/11/2005	05/12/2005	-	05/18/2005
MW-1D8	WATER	05/11/2005	05/12/2005	-	05/18/2005
MW-1U1	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-2D2	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-2D3	WATER	05/12/2005	05/13/2005	-	05/18/2005
MW-2D4	WATER	05/12/2005	05/13/2005	-	05/18/2005

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
BLIND DUP	WATER	05/11/2005	05/12/2005	05/16/2005	05/19/2005
MNW-12	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-1D1	WATER	05/11/2005	05/12/2005	05/16/2005	05/19/2005
MW-1D2	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-1D2 DL	WATER	05/12/2005	05/13/2005	05/17/2005	05/19/2005
MW-1D3	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-1D4	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-1D6	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-1D7	WATER	05/11/2005	05/12/2005	05/16/2005	05/19/2005
MW-1D8	WATER	05/11/2005	05/12/2005	05/16/2005	05/19/2005
MW-1U1	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-2D2	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-2D3	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005
MW-2D4	WATER	05/12/2005	05/13/2005	05/17/2005	05/18/2005

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
BLIND DUP	WATER	S ME	05/12/2005	05/13/2005	05/13-05/16/2005
MNW-12	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/16/2005
MW-1D1	WATER	S ME	05/12/2005	05/13/2005	05/13-05/16/2005
MW-1D2	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/16/2005
MW-1D3	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/16/2005
MW-1D4	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/16/2005
MW-1D6	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/17/2005
MW-1D7	WATER	S ME	05/12/2005	05/13/2005	05/13-05/16/2005
MW-1D8	WATER	S ME	05/12/2005	05/13/2005	05/13-05/16/2005
MW-1U1	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/17/2005
MW-2D2	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/17/2005
MW-2D3	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/17/2005
MW-2D4	WATER	S ME	05/13/2005	05/14-05/16/2005	05/14-05/17/2005

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
BLIND DUP	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MNW-12	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D1	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D2	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D2 DL	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D3	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D4	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D6	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D7	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1D8	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-1U1	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-2D2	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-2D3	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED
MW-2D4	WATER	SW8463	SEPF	AS REQUIRED	AS REQUIRED

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
BLIND DUP	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MNW-12	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D1	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D2	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D3	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D4	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D6	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D7	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1D8	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-1U1	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-2D2	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-2D3	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED
MW-2D4	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

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

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: BLIND DUP

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2765.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	2.5	J
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	25	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	4.5	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	5.8	J
95-47-6	o-Xylene	3.4	J

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MNW-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489201

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2808.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	3.1	J
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	1.2	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	5.0	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479802

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2766.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	2.1	J
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	25	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	1.8	J
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	4.5	J
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	4.8	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	6.9	
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	9.0	

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489202

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2809.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	2.4	J
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	1.3	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	7.5	J
95-47-6	o-Xylene	5.9	

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489203

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2829.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/19/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	500	U
71-43-2	Benzene	16	J
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-97-5	Bromochloromethane	25	U
74-83-9	Bromomethane	25	U J
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U J
110-75-8	2-Chloroethylvinyl ether	~~120~~	~~U~~ R
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
124-48-1	Dibromochloromethane	25	U
75-34-3	1,1-Dichloroethane	25	U
107-06-2	1,2-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
75-71-8	Dichlorodifluoromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
100-41-4	Ethylbenzene	25	U
75-09-2	Methylene chloride	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
127-18-4	Tetrachloroethene	25	U
108-88-3	Toluene	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
79-01-6	Trichloroethene	25	U
75-69-4	Trichlorofluoromethane	25	U
75-01-4	Vinyl chloride	25	U
----------	m/p-Xylenes	50	U
95-47-6	o-Xylene	25	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489204

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2811.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	11	
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	3.4	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	5.4	J
95-47-6	o-Xylene	6.4	

25/2271

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2812.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	22	
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	5.0	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D7

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479803

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2769.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	11	
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	8.5	
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	27	
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	5.0	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1D8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479804

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2770.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	2.7	J
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	4.8	J
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	4.9	J
95-47-6	o-Xylene	2.8	J

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-1U1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2813.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	32	
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	25	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	6.1	
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	5.4	J
95-47-6	o-Xylene	6.1	

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-2D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489207

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2814.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U J
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U J
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	5.0	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-2D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2815.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	500	U
71-43-2	Benzene	13	J
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-97-5	Bromochloromethane	25	U
74-83-9	Bromomethane	25	U J
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U J
110-75-8	2-Chloroethylvinyl ether	~~120~~	~~U~~ R
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
124-48-1	Dibromochloromethane	25	U
75-34-3	1,1-Dichloroethane	25	U
107-06-2	1,2-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
75-71-8	Dichlorodifluoromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
100-41-4	Ethylbenzene	25	U
75-09-2	Methylene chloride	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
127-18-4	Tetrachloroethene	25	U
108-88-3	Toluene	10	J
71-55-6	1,1,1-Trichloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
79-01-6	Trichloroethene	25	U
75-69-4	Trichlorofluoromethane	25	U
75-01-4	Vinyl chloride	25	U
----------	m/p-Xylenes	19	J
95-47-6	o-Xylene	11	J

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.: MW-2D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489209

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2816.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	500	U
71-43-2	Benzene	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-97-5	Bromochloromethane	25	U
74-83-9	Bromomethane	25	U J
56-23-5	Carbon Tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
75-00-3	Chloroethane	25	U J
110-75-8	2-Chloroethylvinyl ether	~~120~~	~~U~~ R
67-66-3	Chloroform	25	U
74-87-3	Chloromethane	25	U
124-48-1	Dibromochloromethane	25	U
75-34-3	1,1-Dichloroethane	25	U
107-06-2	1,2-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
75-71-8	Dichlorodifluoromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
100-41-4	Ethylbenzene	25	U
75-09-2	Methylene chloride	25	U
630-20-6	1,1,1,2-Tetrachloroethane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
127-18-4	Tetrachloroethene	25	U
108-88-3	Toluene	25	U
71-55-6	1,1,1-Trichloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
79-01-6	Trichloroethene	25	U
75-69-4	Trichlorofluoromethane	25	U
75-01-4	Vinyl chloride	25	U
----------	m/p-Xylenes	50	U
95-47-6	o-Xylene	25	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8260 - TCL VOLATILE ORGANICS - W
ANALYSIS DATA SHEET

Client No.

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Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489210

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2802.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 05/18/2005

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
107-13-1	Acrylonitrile	100	U J
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-97-5	Bromochloromethane	5.0	U
74-83-9	Bromomethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
110-75-8	2-Chloroethylvinyl ether	~~25~~	~~U~~ R J
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
75-09-2	Methylene chloride	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
----------	m/p-Xylenes	10	U
95-47-6	o-Xylene	5.0	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: BLIND DUP

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479801

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03182.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	3	J
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	9	U
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.

BLIND DUP

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479801

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03182.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	37	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	9	U
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489201

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: X03157.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 12.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	6	J
120-12-7	Anthracene	6	J
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
111-44-4	Bis(2-chloroethyl) ether	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	10 3	~~BJ~~ U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
218-01-9	Chrysene	10	U
108-39-4	~~3-Methylphenol~~	~~10~~	~~U~~
95-48-7	2-Methylphenol	10	U
106-44-5	3+4-Methylphenol	2	J
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	11	
86-73-7	Fluorene	23	
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	45	U
67-72-1	Hexachloroethane	10	U
78-59-1	Isophorone	10	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MNW-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489201

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: X03157.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 12.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	78	
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	43	
108-95-2	Phenol	10	U
129-00-0	Pyrene	7	J
110-86-1	Pyridine	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479802

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: X03183.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
111-44-4	Bis(2-chloroethyl) ether	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
218-01-9	Chrysene	10	U
108-39-4	3-Methylphenol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	45	U
67-72-1	Hexachloroethane	10	U
78-59-1	Isophorone	10	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.

MW-1D1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479802

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: X03183.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	3	J
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.

MW-1D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489202

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03160.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	34	
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	3+4-Methylphenol	1	J
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	8	J
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489202

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03160.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	490 ~~370~~	~~E~~
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	5	J
108-95-2	Phenol	1	J
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.

MW-1D2 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489202DL

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03194.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	32	DJ
120-12-7	Anthracene	47	U
56-55-3	Benzo(a)anthracene	47	U
50-32-8	Benzo(a)pyrene	47	U
85-68-7	Butyl benzyl phthalate	47	U
111-44-4	Bis(2-chloroethyl) ether	47	U
117-81-7	Bis(2-ethylhexyl) phthalate	47	U
59-50-7	4-Chloro-3-methylphenol	47	U
91-58-7	2-Chloronaphthalene	47	U
218-01-9	Chrysene	47	U
108-39-4	3-Methylphenol	47	U
95-48-7	2-Methylphenol	47	U
106-44-5	4-Methylphenol	47	U
95-50-1	1,2-Dichlorobenzene	47	U
541-73-1	1,3-Dichlorobenzene	47	U
106-46-7	1,4-Dichlorobenzene	47	U
120-83-2	2,4-Dichlorophenol	47	U
84-66-2	Diethyl phthalate	47	U
105-67-9	2,4-Dimethylphenol	47	U
131-11-3	Dimethyl phthalate	47	U
84-74-2	Di-n-butyl phthalate	47	U
117-84-0	Di-n-octyl phthalate	47	U
534-52-1	4,6-Dinitro-2-methylphenol	240	U
121-14-2	2,4-Dinitrotoluene	47	U
606-20-2	2,6-Dinitrotoluene	47	U
206-44-0	Fluoranthene	47	U
86-73-7	Fluorene	47	U
118-74-1	Hexachlorobenzene	47	U
87-68-3	Hexachlorobutadiene	47	U
77-47-4	Hexachlorocyclopentadiene	210	U
67-72-1	Hexachloroethane	47	U
78-59-1	Isophorone	47	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D2 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489202DL

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03194.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	490	D
87-86-5	Pentachlorophenol	240	U
85-01-8	Phenanthrene	47	U
108-95-2	Phenol	47	U
129-00-0	Pyrene	47	U
110-86-1	Pyridine	120	U
58-90-2	2,3,4,6-Tetrachlorophenol	47	U
120-82-1	1,2,4-Trichlorobenzene	47	U
95-95-4	2,4,5-Trichlorophenol	47	U
88-06-2	2,4,6-Trichlorophenol	47	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489203

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03161.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	10	
95-48-7	2-Methylphenol	4	J
106-44-5	3,4-Methylphenol	10	
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	2	J
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	2	J
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489203

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03161.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	8	J
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	3	J
108-95-2	Phenol	27	
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489204

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03162.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	5	J
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9 3	BJU
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	3+4-Methylphenol	2	J
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	2	J
86-73-7	Fluorene	5	J
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489204

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03162.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	17	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	7	J
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489205

Sample wt/vol: 1055.0 (g/mL) ML Lab File ID: X03163.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	2	J
86-73-7	Fluorene	9	U
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	43	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.

MW-1D6

Lab Name: STL Buffalo . Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489205

Sample wt/vol: 1055.0 (g/mL) ML Lab File ID: X03163.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9	U
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	4	J
108-95-2	Phenol	9	U
129-00-0	Pyrene	1	J
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D7

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479803

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03186.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	8	J
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D7

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479803

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03186.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9	U
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	9	U
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479804

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03187.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	9	U
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1D8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5479804

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03187.RR

Level: (low/med) LOW Date Samp/Recv: 05/11/2005 05/12/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/16/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/19/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	34	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	9	U
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

53/2271

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1U1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489206

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03168.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9 ~~3~~	BJ U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	1	J
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	3	J
86-73-7	Fluorene	3	J
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-1U1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489206

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03168.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 11.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	17	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	4	J
108-95-2	Phenol	9	U
129-00-0	Pyrene	3	J
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

55/2271

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489207

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03169.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	9	U
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489207

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03169.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	9	U
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	9	U
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

57/2271

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489208

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03170.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	22	
120-12-7	Anthracene	3	J
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	3+4-Methylphenol	2	J
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	2	J
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	2	J
86-73-7	Fluorene	19	
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489208

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03170.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	130	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	22	
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489209

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03171.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
208-96-8	Acenaphthylene	9	U
120-12-7	Anthracene	9	U
56-55-3	Benzo(a)anthracene	9	U
50-32-8	Benzo(a)pyrene	9	U
85-68-7	Butyl benzyl phthalate	9	U
111-44-4	Bis(2-chloroethyl) ether	9	U
117-81-7	Bis(2-ethylhexyl) phthalate	9	U
59-50-7	4-Chloro-3-methylphenol	9	U
91-58-7	2-Chloronaphthalene	9	U
218-01-9	Chrysene	9	U
108-39-4	3-Methylphenol	9	U
95-48-7	2-Methylphenol	9	U
106-44-5	4-Methylphenol	9	U
95-50-1	1,2-Dichlorobenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
120-83-2	2,4-Dichlorophenol	9	U
84-66-2	Diethyl phthalate	9	U
105-67-9	2,4-Dimethylphenol	9	U
131-11-3	Dimethyl phthalate	9	U
84-74-2	Di-n-butyl phthalate	9	U
117-84-0	Di-n-octyl phthalate	9	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
121-14-2	2,4-Dinitrotoluene	9	U
606-20-2	2,6-Dinitrotoluene	9	U
206-44-0	Fluoranthene	9	U
86-73-7	Fluorene	9	U
118-74-1	Hexachlorobenzene	9	U
87-68-3	Hexachlorobutadiene	9	U
77-47-4	Hexachlorocyclopentadiene	42	U
67-72-1	Hexachloroethane	9	U
78-59-1	Isophorone	9	U

TURNKEY ENVIRONMENTAL RESTORATION, LLC
TURNKEY - BETHLEHEM STEEL SITE
TURN - METHOD 8270+ADDS - SEMI-VOLATILE ORGANICS-W
ANALYSIS DATA SHEET

Client No.: MW-2D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix: (soil/water) WATER Lab Sample ID: A5489209

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: X03171.RR

Level: (low/med) LOW Date Samp/Recv: 05/12/2005 05/13/2005

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/17/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/18/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	12	
87-86-5	Pentachlorophenol	47	U
85-01-8	Phenanthrene	9	U
108-95-2	Phenol	9	U
129-00-0	Pyrene	9	U
110-86-1	Pyridine	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U
95-95-4	2,4,5-Trichlorophenol	9	U
88-06-2	2,4,6-Trichlorophenol	9	U

STL BUFFALO

Turnkey Environmental Restoration, LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524256

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	13.5			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	617000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	658			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	99400			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	14900			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524256

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	13.0			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	602000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	677			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	100000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	14900			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MNW-12

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524790

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	68.3			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	300000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	91700			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	52600			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MNW-12-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524790

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	69.7			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	308000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	88800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	53100			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D1

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524257

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	38.8			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	779000			P
7440-47-3	Chromium	9.2			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	448			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	93800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	20000			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D1-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524257

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	38.2			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	786000			P
7440-47-3	Chromium	6.4			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	451			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	97400			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	20100			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D2

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524793

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	51.0			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	266000			P
7440-47-3	Chromium	4.1			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	86700			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	66700			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D2-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524793

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	49.3			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	263000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	80600			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	64000			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D3

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524794

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	219		J	P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	254000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	219			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	204000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	75000			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D3-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524794

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	244		J	P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	243000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	213000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	73700			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

STL BUFFALO

Turnkev Environmental Restoration, LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D4

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524795

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	67.8			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	235000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	95800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	73900			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D4-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524795

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	67.4			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	233000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	92200			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	72800			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D6

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524796

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	23.1			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	677000			P
7440-47-3	Chromium	5.2			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	86700			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	13900			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D6-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524796

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	22.8			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	676000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	83800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	14000			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D7

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524260

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	21.2			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	786000			P
7440-47-3	Chromium	5.4			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	9360			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	49200			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	8000			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D7-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524260

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	20.7			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	786000			P
7440-47-3	Chromium	5.8			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	9470			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	49400			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	8280			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

77/2271

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D8

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524261

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	13.9			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	625000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	678			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	101000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	15300			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D8-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524261

Level (low/med): LOW Date Received: 5/12/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	13.4			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	628000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	694			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	106000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	15400			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1U1

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524797

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	50.1			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	266000			P
7440-47-3	Chromium	27.6			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	318			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	54800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	77300			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1U1-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524797

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	48.5			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	262000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	53400			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	76300			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration, LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D2

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524798

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	38.6			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	213000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	414			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	120000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	63900			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkey Environmental Restoration, LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D2-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524798

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	39.0			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	215000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	412			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	119000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	64100			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D3

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524799

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	51.1			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	208000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	119000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	63200			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D3-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524799

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	50.7			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	206000			P
7440-47-3	Chromium	4.0	U		P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	200	U		P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	114000			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	61900			P
7440-28-0	Thallium	20.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D4

Contract: NY03-105

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524800

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	42.3			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	97500			P
7440-47-3	Chromium	9.2			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	59000			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	91500			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	39200			P
7440-28-0	Thallium	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Turnkev Environmental Restoration. LLC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D4-SOL

Contract: NY03-105

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 4798

Matrix (soil/water): WATER Lab Sample ID: AD524800

Level (low/med): LOW Date Received: 5/13/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	41.1			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	94300			P
7440-47-3	Chromium	5.1			P
7439-92-1	Lead	5.0	U		P
7439-95-4	Magnesium	58500			P
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	85800			P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	37900			P
7440-28-0	Thallium	20.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

87/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: BLIND DUP

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5479801

% Solids: 0.0 Date Samp/Recv: 05/11/2005 05/12/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	15.4				310.1	05/20/2005
Chloride	MG/L	102				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/13/2005
Nitrate	MG/L-N	0.43				353.2	05/12/2005
Sulfate	MG/L	2150				300.0	05/19/2005
Total Dissolved Solids	MG/L	2370				160.1	05/13/2005

Comments:

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MNW-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489201

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	60.0				310.1	05/20/2005
Chloride	MG/L	86.0				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	379				300.0	05/18/2005
Total Dissolved Solids	MG/L	1130				160.1	05/19/2005

Comments:

89/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5479802

% Solids: 0.0 Date Samp/Recv: 05/11/2005 05/12/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	28.3				310.1	05/24/2005
Chloride	MG/L	340				300.0	05/18/2005
Cyanide - Total	MG/L	0.014				9012	05/13/2005
Nitrate	MG/L-N	0.28		J		353.2	05/12/2005
Sulfate	MG/L	1260				300.0	05/19/2005
Total Dissolved Solids	MG/L	2060				160.1	05/13/2005

Comments:

90/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489202

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	79.5				310.1	05/20/2005
Chloride	MG/L	98.3				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.081				353.2	05/14/2005
Sulfate	MG/L	430				300.0	05/18/2005
Total Dissolved Solids	MG/L	1100				160.1	05/16/2005

Comments:

91/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489203

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	511				310.1	05/20/2005
Chloride	MG/L	104				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	502				300.0	05/31/2005
Total Dissolved Solids	MG/L	1310				160.1	05/16/2005

Comments:

92/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489204

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	125				310.1	05/20/2005
Chloride	MG/L	135				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	380				300.0	05/18/2005
Total Dissolved Solids	MG/L	1050				160.1	05/19/2005

Comments:

93/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489205

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	40.9				310.1	05/20/2005
Chloride	MG/L	174				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	1590				300.0	05/18/2005
Total Dissolved Solids	MG/L	2530				160.1	05/16/2005

Comments:

94/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D7

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5479803

% Solids: 0.0 Date Samp/Recv: 05/11/2005 05/12/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	5.0	U			310.1	05/20/2005
Chloride	MG/L	569				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/12/2005
Sulfate	MG/L	1510				300.0	05/18/2005
Total Dissolved Solids	MG/L	3010				160.1	05/13/2005

Comments:

95/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1D8

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5479804

% Solids: 0.0 Date Samp/Recv: 05/11/2005 05/12/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	22.4				310.1	05/20/2005
Chloride	MG/L	102				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.44				353.2	05/12/2005
Sulfate	MG/L	1780				300.0	05/18/2005
Total Dissolved Solids	MG/L	2380				160.1	05/13/2005

Comments:

96/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-1U1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489206

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	54.2				310.1	05/20/2005
Chloride	MG/L	120				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	318				300.0	05/18/2005
Total Dissolved Solids	MG/L	1040				160.1	05/16/2005

Comments:

97/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-2D2

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489207

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	27.5				310.1	05/24/2005
Chloride	MG/L	285				300.0	05/18/2005
Cyanide - Total	MG/L	0.063				9012	05/17/2005
Nitrate	MG/L-N	2.2				353.2	05/14/2005
Sulfate	MG/L	568				300.0	05/18/2005
Total Dissolved Solids	MG/L	1180				160.1	05/16/2005

Comments:

98/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.: MW-2D3

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489208

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	40.0				310.1	05/24/2005
Chloride	MG/L	196				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	0.050	U			353.2	05/14/2005
Sulfate	MG/L	448				300.0	05/18/2005
Total Dissolved Solids	MG/L	1130				160.1	05/16/2005

Comments:

99/2271

Turnkey Environmental Restoration, LLC
TURNKEY - BETHLEHEM STEEL SITE
Wet Chemistry Analysis

Client Sample No.

MW-2D4

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 4798

Matrix (soil/water): WATER Lab Sample ID: A5489209

% Solids: 0.0 Date Samp/Recv: 05/12/2005 05/13/2005

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Carbonate Alkalinity	MG/L	5.0	U			310.1	05/24/2005
Chloride	MG/L	132				300.0	05/18/2005
Cyanide - Total	MG/L	0.010	U			9012	05/17/2005
Nitrate	MG/L-N	2.6				353.2	05/14/2005
Sulfate	MG/L	265				300.0	05/18/2005
Total Dissolved Solids	MG/L	854				160.1	05/16/2005

Comments:

APPENDIX C

HISTORIC GROUNDWATER ELEVATION DATA EVALUATION

TurnKey Environmental Restoration, LLC

APPENDIX C

HISTORICAL GROUNDWATER ELEVATIONS
2001 TO PRESENT

Hazardous Waste Management Facilities HWM-1 & HWM-2
Tecumseh Redevelopment, Inc.
Lackawanna, New York

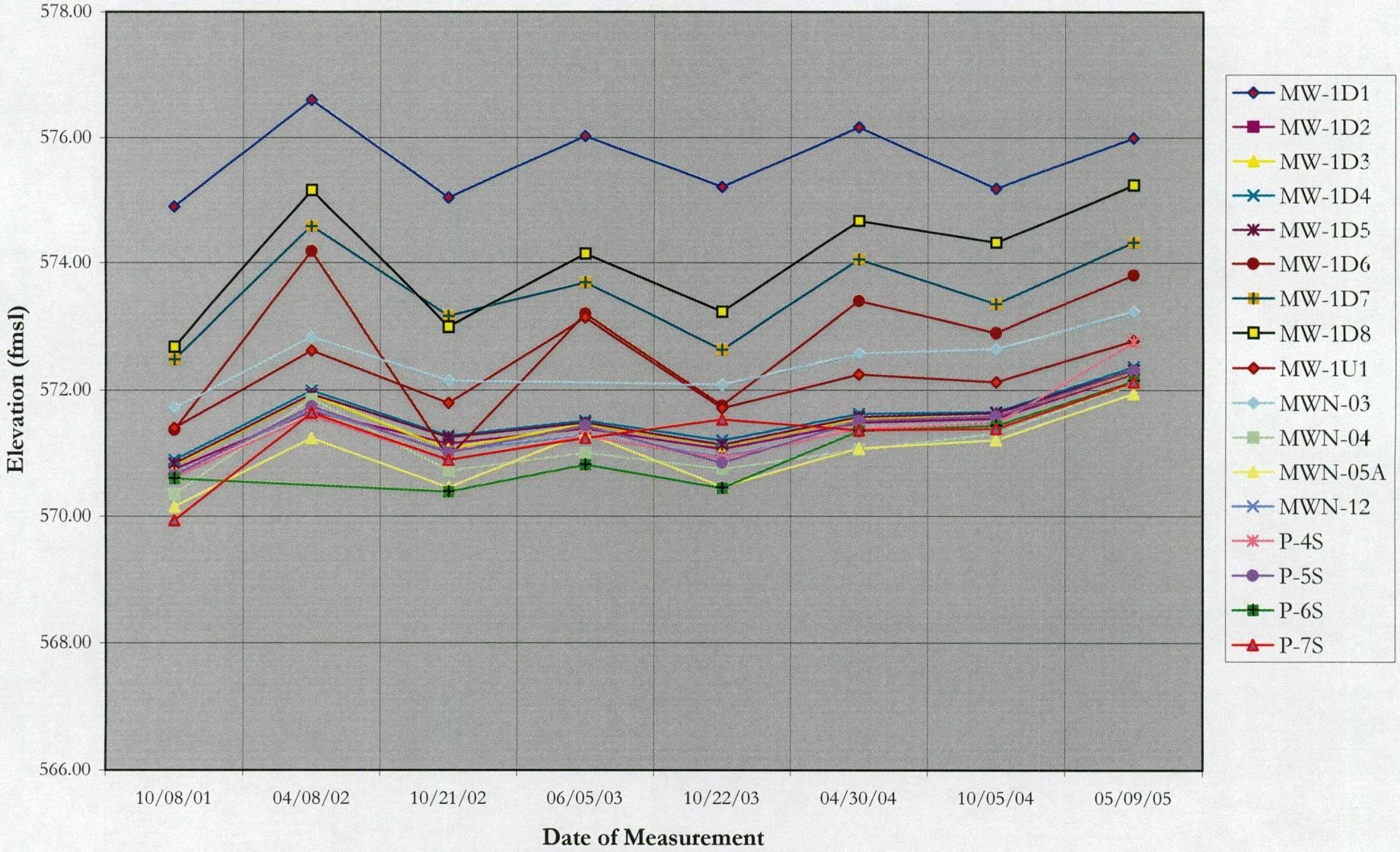
Location	Date of Measurement & GW Elevation							
	10/08/01	04/08/02	10/21/02	06/05/03	10/22/03	04/30/04	10/05/04	05/09/05
HWM-1A & 1B MONITORING WELLS								
MW-1D1	574.91	576.61	575.05	576.03	575.22	576.17	575.19	576.00
MW-1D2	570.75	571.67	571.16	571.40	571.07	571.49	571.55	572.26
MW-1D3	570.81	571.92	571.07	571.46	571.12	571.55	571.59	572.29
MW-1D4	570.90	572.00	571.28	571.52	571.21	571.63	571.66	572.37
MW-1D5	570.84	571.94	571.26	571.49	571.14	571.58	571.64	572.32
MW-1D6	571.38	574.19	570.94	573.20	571.76	573.40	572.90	573.81
MW-1D7	572.49	574.59	573.16	573.69	572.64	574.06	573.35	574.33
MW-1D8	572.68	575.16	572.99	574.14	573.22	574.67	574.32	575.24
MW-1U1	571.41	572.63	571.80	573.14	571.72	572.25	572.13	572.78
MWN-03	571.71	572.83	572.14		572.08	572.57	572.64	573.22
MWN-04	570.34	571.86	570.71	571.00	570.74	571.05	571.31	572.10
MWN-05A	570.15	571.24	570.45	571.32	570.46	571.08	571.21	571.94
MWN-12	570.67	571.70	571.04	571.29	570.95	571.39	571.48	
MWN-42A								572.37
P-4S	570.63	571.61	570.89	571.28	570.92	571.40	571.47	572.76
P-5S	570.65	571.75	571.01	571.44	570.85	571.52	571.59	572.31
P-6S	570.60		570.39	570.82	570.45	571.36	571.44	572.15
P-7S	569.94	571.65	570.90	571.25	571.54	571.37	571.39	572.13
HWM-2 MONITORING WELLS								
MW-2D2	571.28	572.77	571.18	570.21	571.90	572.40	572.17	572.71
MW-2D3	572.72	574.41	571.64	573.37	573.47	573.91	573.63	574.22
MW-2D4	572.67	574.35	572.49	573.34	573.48	573.87	573.56	574.19	
MW-2U1								
MWS-11A	572.68	574.45	573.85		574.71	575.28	574.83	575.17
MWS-15	572.98	574.63	572.88		574.89	575.50	575.04	575.37
MWS-26A	570.68	571.93	570.69	571.47	571.21	571.78	571.63	571.69
MWS-09		572.95	572.02	572.43	572.11	572.60	572.57	572.53
LAKE ERIE								
Lake Erie	570.39	571.20	570.39	571.51	570.45	571.15	571.21	572.05

= water level not measured
= monitoring well was dry

APPENDIX C

HISTORICAL GROUNDWATER ELEVATIONS
HWM-1A & 1B

2001 to Present

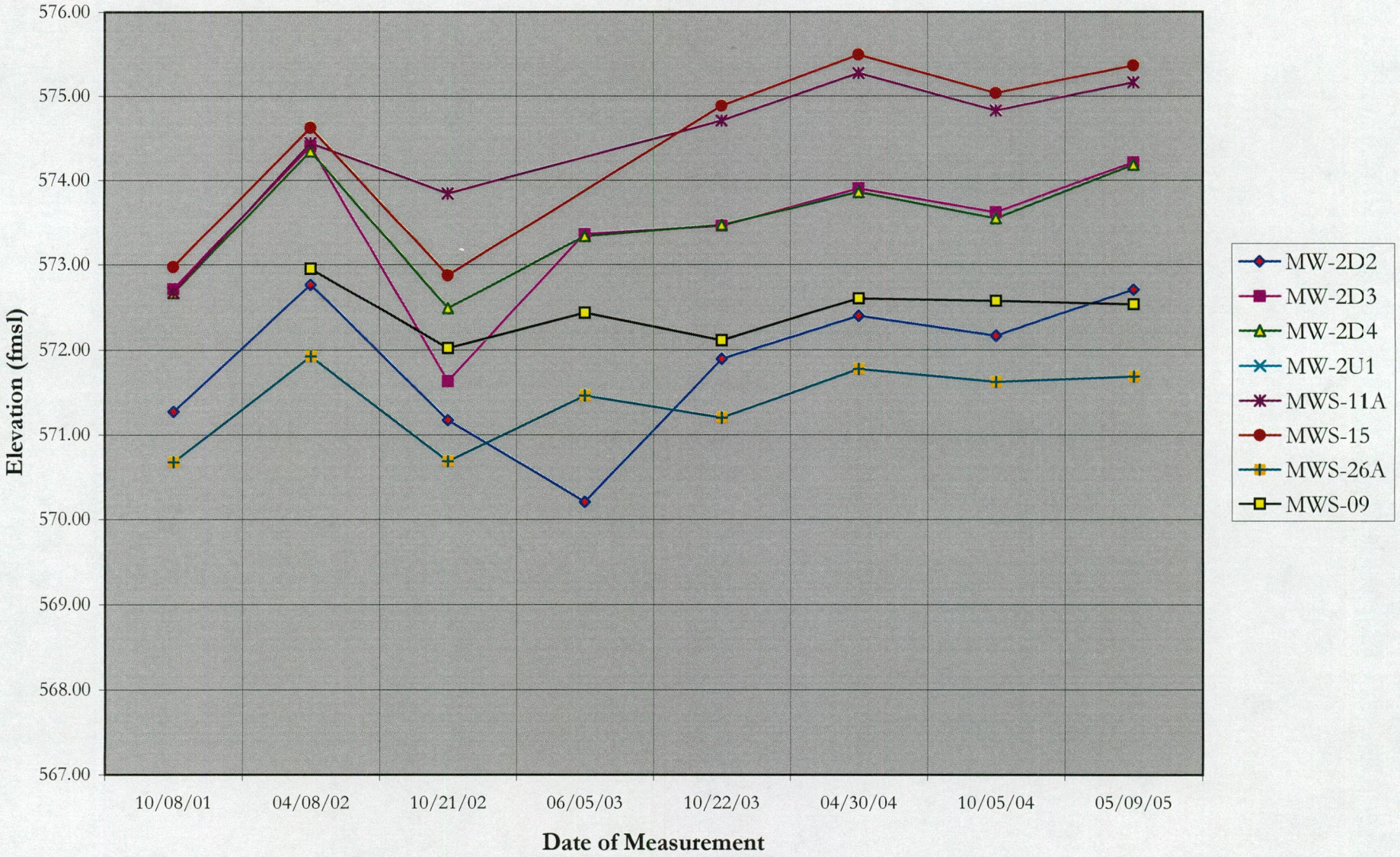


TurnKey Environmental Restoration, LLC

APPENDIX C

HISTORICAL GROUNDWATER ELEVATIONS
HWM-2

2001 to Present

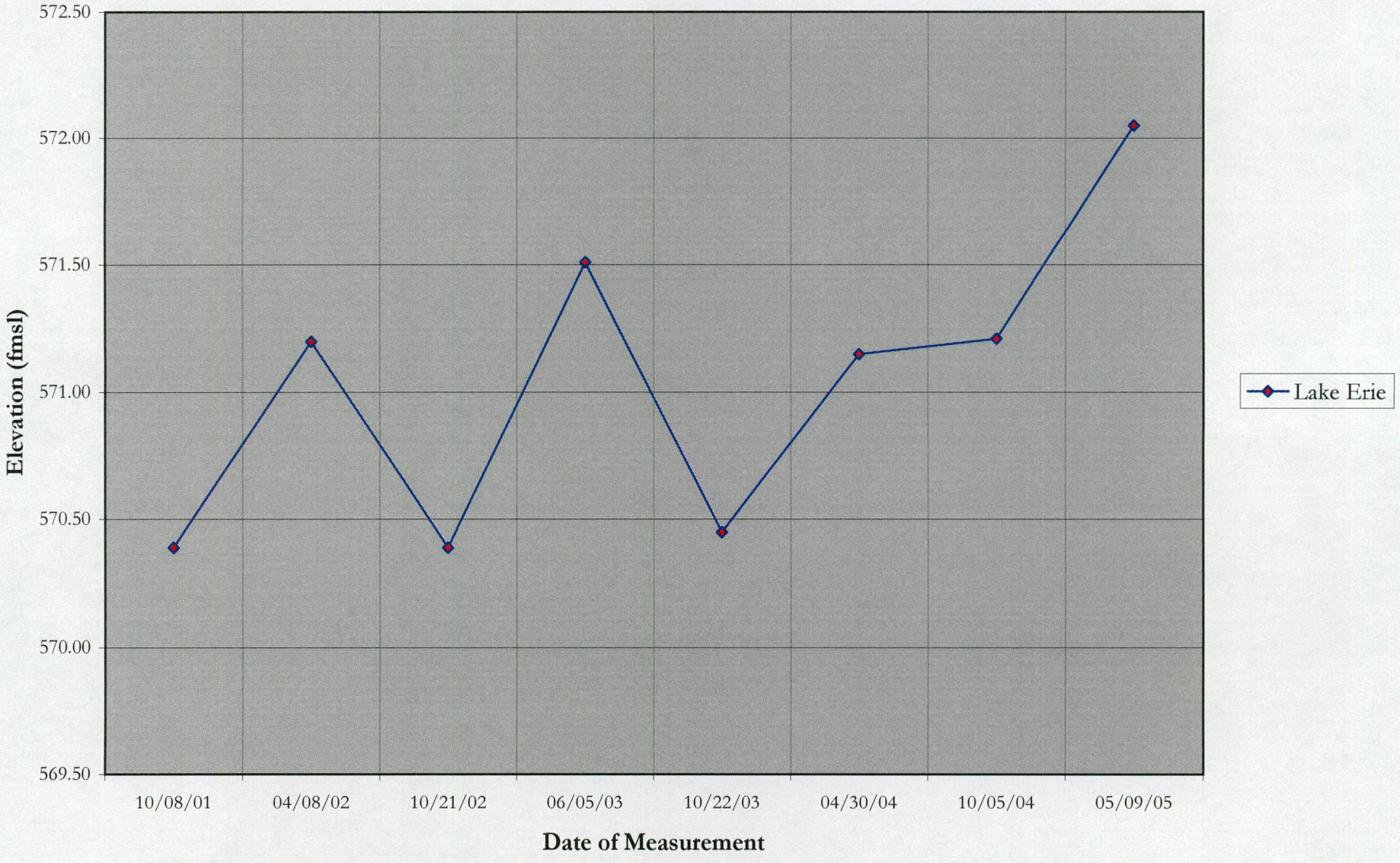


TurnKey Environmental Restoration, LLC

APPENDIX C

HISTORICAL GROUNDWATER ELEVATIONS
LAKE ERIE

2001 to Present



APPENDIX D

MAY 2005 DATA USABILITY SUMMARY REPORT (DUSR)

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

August 18, 2005

Bryan Hann
Benchmark Env. Engineers
726 Exchange St. Suite 624
Buffalo, NY 14210

RE: Data Usability Summary Report for the Tecumseh Restoration site
STL-Buffalo SDG No. 4798

Dear Mr. Hann:

Review has been completed for the data package generated by Severn Trent Laboratories that pertains to samples collected 5/11/05 and 5/12/05 at the Bethlehem Steel site. Thirteen aqueous samples, including a field duplicate, were processed for Priority Pollutant (PP) volatiles, PP semivolatiles, total and dissolved PP Metals, and six wet chemistry parameters. A trip blank and sample matrix spikes/duplicates were also processed. The laboratory methodologies utilized are those of the USEPA SW846.

The data packages submitted contain full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes
* Calibration Standards
* ICP Serial Dilution
* CRI/CRA Standards
* Instrument IDLs

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, most of the sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects. However, results for 2-chloroethyl vinyl ether are not usable ("R") in the samples due to the lack of stability in the preserved matrix. There are no other significant matrix effects from the samples.

Copies of the laboratory case narrative and the sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are red-ink edited results forms, reflecting final sample results with edits and qualifications recommended within this report.

The following text discusses quality issues of concern.

General

Blind field duplicate evaluation was performed on sample MW-1D8, and correlations were within validation guidelines for all analytes.

Volatiles by 8260B

Holding times for project samples were met, surrogate and internal standard responses meet protocol requirements, and blanks show no contamination.

The trip blank was collected on 4/29/05, well before the sample collections. It was processed beyond the allowable holding time, and just within a usable holding time. All results for that blank are therefore qualified as estimated ("UJ" and "J"), with a possible significant low bias.

Matrix spikes of MW-1D1 show all recoveries and duplicate correlations within recommended ranges, with the exception of one duplicate precision value (one percentage point high) for an analyte that was not detected in the parent sample. Reported results are not affected.

As noted above, results for 2-chloroethyl vinyl ether are not usable in the project samples.

Calibrations standards showed acceptable responses, with the exception of those for chloroethane and bromomethane in the standards associated with all samples. The results for those compounds in the associated samples are qualified as estimated ("J" or "UJ").

MW-1D3, MW-2D3, and MW-2D4 were processed at dilution. This results in elevated reporting limits.

Semivolatile Analyses by 8270C

Detected results reported for 3-methylphenol and 4-methylphenol should be considered as being the combined results of both isomers (i.e. "3+4-methylphenol"). The edit had been made on the attached report forms for the affected samples. Although separate standards are evaluated for the two compounds

(thus supporting the individual reporting limits), detections still reflect the same instrument response for both compounds.

Results for analytes that are initially reported with the "E" qualifier are derived from the dilution analyses of those samples.

Some of the samples were analyzed at dilution due to high concentrations of target analytes.

Matrix spikes of MW-1D1 and MW-12 show acceptable accuracy and precision for the seven compounds evaluated.

Holding times were met. Surrogate and internal standard recoveries, and the instrumental tunes were acceptable. Calibrations standards showed acceptable responses with laboratory requirements and validation guidelines.

The detections of bis(2-ethylhexyl)phthalate in the samples are considered external contamination (due to low level detections in the associated method blanks). Those sample detections are edited to reflect non-detection (U").

Metals by 6010B and 7470

Matrix spikes of MNW-12-Dissolved , MW-1D1-Total, and MW-1D1-Dissolved show acceptable accuracy and precision.

The ICP serial dilution evaluations of the total and dissolved fractions of MW-1D21 and MNW-12 show acceptable correlations.

Holding times were met. Blanks associated with sample analyses show no contamination above reporting limit. An elevated recovery for antimony in the LCS does not affect the sample results (all show no detection).

Barium shows a higher concentration (11%D) in the dissolved fraction than in the total fraction of MW-1D3. Therefore, the result for this analyte in both fractions of the sample are qualified as estimated ("J").

Wet Chemistry Analyses-alkalinity, chloride, total cyanide, nitrate as N, sulfate, and total dissolved solids

Review was conducted for holding times, method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable unless noted specifically within this text.

Matrix spike/duplicates of MW-1D1 show acceptable recoveries and duplicate correlations for chloride and sulfate. Those for cyanide show one very slightly low recovery and one recovery within guidelines. Recoveries were elevated for nitrate (140% and 140%); the result for nitrate in that parent

sample is qualified as estimated. Duplicate correlations for carbonate alkalinity and TDS were based on batch QC, and were acceptable.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

LABORATORY SAMPLE IDs AND CASE NARRATIVES

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS						
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	TCLP HERB	WATER QUALITY
BLIND DUP	A5479801	SW8463	SW8463	-	-	SW8463	-	MCAWW
MNW-12	A5489201	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D1	A5479802	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D2	A5489202	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D3	A5489203	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D4	A5489204	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D6	A5489205	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D7	A5479803	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1D8	A5479804	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-1U1	A5489206	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D2	A5489207	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D3	A5489208	SW8463	SW8463	-	-	SW8463	-	MCAWW
MW-2D4	A5489209	SW8463	SW8463	-	-	SW8463	-	MCAWW

NON-CONFORMANCE SUMMARY

Job#: A05-4798,A05-4892

STL Project#: NY3A9073
SDG#: 4798
Site Name: Turnkey Environmental Restoration, LLC

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

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

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

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

Sample Receipt Comments

A05-4798
Sample Cooler(s) were received at the following temperature(s); 5.0 °C
No trip blank was received.
A05-4892
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The relative percent difference between the Matrix Spike and the Matrix Spike Duplicate of sample MW-1D1 exceed quality control limits for the analyte 1,1-Dichloroethene, though all individual analyte recoveries are compliant.

All samples were preserved to a pH less than 2.

The analyte 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limit for the analyte 2-chloroethyl vinyl ether is not reliable or defensible.

Initial calibration standard curve A5I0001561-1 exhibited the %RSD of the compound Chloroethane as greater than 15%. However, the mean RSD of all compounds is 6.93%.

Initial calibration standard curve A5I0001562-1 exhibited the %RSD of the compound Chloroethane as greater than 15%. However, the mean RSD of all compounds is 6.20%.

GC/MS Semivolatile Data

The analyte Bis(2-ethylhexyl)phthalate was detected in the Method Blanks A5B0715102 and A5B0720102 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes 3-Methylphenol and 4-Methylphenol coelute and can not be analtyically separated. The reported concentrations for these analytes are therefore a 'total' number, rather than individual quantitated values.

Metals Data

The recovery of sample MW-1D1 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Calcium and Potassium. The sample result is more than four times greater than the spike added. The LFB (A5B0699401) is acceptable.

The recovery of sample MW-1D1-SOL Matrix Spike exhibited results below the quality control limits for Soluble Calcium and Potassium. The sample result is more than four times greater than the spike added. The LFB (A5B0698901) is acceptable.

The recovery for samples MW-1D1, MNW-12, and MNW-12-SOL exceeded quality control limits for Total and Soluble Calcium. However, the LFB's (A5B0699401 A5B0712301, and A5B0712001) are acceptable, therefore, no corrective action was necessary.

The LFB (A5B0699401) recovery for Antimony in Method 6010 was above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

Wet Chemistry Data

The recovery of sample MW-1D1 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Nitrate. However, the LCS was acceptable.

The values obtained for Nitrate on samples MW-1D2 and MW-2D2 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed.

The values reported for the LCS and Method Blanks for Carbonate Alkalinity do not represent actual values obtained as a result of an analytical procedure. The concentration of Carbonate Alkalinity in a sample with a pH less than 8.3 is zero. Thus, the LCS and Method Blank have values of zero. The values do not adversely affect any analytical results.

The values obtained for Total Dissolved Solids on samples MNW-12 and MW-1D4 have a TDS/Conductivity ratio outside the valid range. Reanalysis was performed and the values were confirmed.

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

QUALIFIED REPORT FORMS

(Inserted into Appendix D: Sample Data Summary Package)