

QUARTERLY PROGRESS REPORT FOURTH QUARTER 2002 AND 2-YEAR PROGRESS EVALUATION

**FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK**

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Fourth Quarter 2002 and 2-Year Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

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LIST OF ACRONYMS

µg/L	micrograms per liter
CO ₂	carbon dioxide
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethylene
cis-1,2-DCE	cis-1,2-dichloroethylene
trans-1,2-DCE	trans-1,2-dichloroethylene
DO	dissolved oxygen
DPVE	dual-phase vacuum extraction
EPA	Environmental Protection Agency (United States)
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
mL/min	milliliters per minute
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
MSD	matrix spike duplicate
ND	not detected (non-detect)
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
ORP	oxidation-reduction potential
PARCC	precision, accuracy, representativeness, completeness, and comparability
QC	quality control
%R	percentage of recovery
RPD	relative percent difference
SQL	sample quantitation limit
System	dual-phase vacuum extraction and groundwater remedial treatment system
TCE	trichloroethylene
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes activities and results for the fourth quarterly sampling event for the year 2002. It also incorporates a remedial progress evaluation based on the past two years of operation of the Dual-Phase Vacuum Extraction (DPVE) and bedrock groundwater extraction system (System), consistent with the statement of remedial action objectives in Section 2.2 of the approved Remedial Work Plan, April 2000. “The short term criteria (approximately 2 years) to track the effectiveness of the remediation of VOCs in groundwater is to demonstrate a downward trend in VOC concentrations achieved using a combination of active, passive, and enhanced biodegradation remedial technology approaches.”

The fourth quarterly sampling event was conducted in December 2002. A summary of the 2001 first, second, third, and fourth quarterly sampling event results and the 2002 first, second, and third quarterly sampling event results are also included. These activities occurred at the former Taylor Instruments Site – New York State Department of Environmental Conservation (NYSDEC) Site #828028a located at 95 Ames Street in Rochester, New York (Figure 1, Appendix A), pursuant to a Voluntary Cleanup Agreement.

The site’s remedial progress for the past two years has been measured by the change in trichloroethylene (TCE) concentrations in on-site monitor wells and System performance data including influent groundwater results and contaminant mass removal quantities to determine when extraction of this mass has reached asymptotic levels. TCE has been used to track remedial progress because it is the primary contaminant of concern remaining at the site.

Since initial startup of the remediation system in January 2001, over 27 million gallons of groundwater have been extracted and treated, resulting in the removal of 2,694 pounds of contaminants from the subsurface soil and groundwater. Corresponding declines of TCE contamination have occurred in all on-site monitor wells. Additionally, off-site monitor wells have continued to show no detectable levels of contamination.

2.0 SCOPE OF WORK

2.1 DECEMBER 2002 QUARTERLY SAMPLING EVENT

MACTEC Engineering and Consulting personnel performed the December sampling event to provide an inclusive set of groundwater analytical data for the fourth quarterly period of 2002. Forty-five samples were collected and submitted to Test America, Incorporated (Table 2-1). Forty-four samples were submitted for volatile organic analyses by U.S. Environmental Protection Agency (EPA) Method 8260B. Of the 45 samples collected, 8 were also submitted for natural biodegradation parameters, which include nitrate by Method 353.2; sulfate by Method 9038; chloride by Method 325.3; total organic carbon by Method 415.1; sulfide by Method 376.1; ferrous iron by Method 3500D; methane, ethane, and ethene by Method RSK175M; carbon dioxide by Method SM4500CO2C; and alkalinity by Method 310.1M. One sample was submitted for selected natural biodegradation parameters, which were alkalinity, chloride, and carbon dioxide. Thirty-three of the samples were environmental samples collected from monitor wells located on the Site. Twelve of the forty-five samples were associated with quality control efforts. All environmental samples, including field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples, were collected using low-flow peristaltic pumps at flow rates <400 milliliters per minute (mL/min).

A summary of analytical results for the extraction, overburden, and bedrock monitor wells is presented in Tables 3-1, 3-2, and 3-3 and Figures 2 and 3, respectively. Laboratory reports and chain-of-custody forms for all samples are located in Appendices B and C, respectively. Field measurements of pH, conductivity, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen (DO) were collected during purging. Purge and sample data are presented on the field data records located in Appendix D.

2.2 TREATMENT SYSTEM OPERATION AND MAINTENANCE (O&M)

MACTEC provides full-scale O&M services for the System at the subject site. The System is monitored remotely on a daily basis via telemetry. Key operational data and alarms are accessed through the programmable logic controller via phone line which allows MACTEC personnel in Tennessee to determine the status of the System remotely and to quickly contact O&M personnel based in Rochester to perform maintenance, thus maximizing System runtime. Routine O&M activities are conducted monthly and major activities are conducted quarterly. These activities include the following:

**Table 2-1
Samples and Analysis,
December 2002 Sampling Event**

Quarterly Progress Report
Fourth Quarter 2002 and 2-Year Progress Evaluation
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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
QATB01	12/03/02	X		Trip Blank
QAFB01	12/03/02	X		Field Blank
QARB01	12/03/02	X		Rinsate Blank
W-2	12/04/02		X ³	Environmental Sample
TW-04	12/04/02	X	X	Environmental Sample
TW-17	12/04/02	X	X	Environmental Sample
TW-20	12/04/02	X	X	Environmental Sample
TW-07	12/04/02	X	X	Environmental Sample
TW-09	12/05/02	X	X	Environmental Sample
OB-09	12/05/02	X	X	Environmental Sample
OB-07	12/05/02	X	X	Environmental Sample
OB-07 (MS)	12/05/02	X		Matrix Spike
OB-07 (MSD)	12/05/02	X		Matrix Spike Duplicate
W-5	12/05/02	X	X	Environmental Sample
W-5 (DUP)	12/05/02	X		Duplicate
W-4	12/06/02	X		Environmental Sample
TW-13	12/06/02	X		Environmental Sample
OB-06	12/06/02	X		Environmental Sample
BR-08	12/06/02	X		Environmental Sample
BR-17	12/06/02	X		Environmental Sample
BR-03	12/07/02	X		Environmental Sample
BR-14	12/07/02	X		Environmental Sample
BR-01	12/07/02	X		Environmental Sample
BR-02	12/07/02	X		Environmental Sample
QATB02	12/07/02	X		Trip Blank
QAFB02	12/07/02	X		Field Blank
QARB02	12/07/02	X		Rinsate Blank
See notes at end of table.				

Table 2-1 (Continued)
Samples and Analysis,
December 2002 Sampling Event

Quarterly Progress Report
Fourth Quarter 2002 and 2-Year Progress Evaluation
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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
BR-06	12/08/02	X		Environmental Sample
BR-06 (MS)	12/08/02	X		Matrix Spike
BR-06 (MSD)	12/08/02	X		Matrix Spike Duplicate
BR-07	12/08/02	X		Environmental Sample
BR-07 (DUP)	12/08/02	X		Duplicate
W-6	12/07/02	X		Environmental Sample
BR-16	12/08/02	X		Environmental Sample
BR-12	12/08/02	X		Environmental Sample
BR-13	12/08/02	X		Environmental Sample
BR-15	12/08/02	X		Environmental Sample
BR-10	12/09/02	X		Environmental Sample
OB-04	12/09/02	X		Environmental Sample
BR-04	12/09/02	X		Environmental Sample
BR-05	12/09/02	X		Environmental Sample
OB-05	12/09/02	X		Environmental Sample
BR-09	12/10/02	X		Environmental Sample
OB-08	12/10/02	X		Environmental Sample
BR-11	12/10/02	X		Environmental Sample

¹ VOCs analyzed by Method 8260B.

² Natural biodegradation parameters include nitrate by Method 353.2, sulfate by Method 9038, chloride by Method 325.3, total organic carbon by Method 415.1, sulfide by Method 376.1, ferrous iron by Method 3500D, methane by Method RSK175M, ethane by Method RSK175M, ethene by Method RSK175M, carbon dioxide by Method SM4500CO2C, and alkalinity by Method 310.1M.

³ Analyzed for alkalinity by Method 310.1M, chloride by Method 325.3, and carbon dioxide by Method SM4500CO2C.

Notes: ID = identification
VOC = volatile organic compound
DUP = duplicate
MS = matrix spike
MSD = matrix spike duplicate

- Monthly
 - Collecting System operational data including line pressures, equipment runtime, flow rates, vacuum levels, and other pertinent data.
 - Checking operation of all equipment for vibration or unusual noise, leaks, and unusual operation.
 - Collecting water levels from site monitor wells.
 - Checking filters, operating fluid levels, and cleanliness of vacuum and transfer pumps and groundwater treatment components.
 - Collecting System performance samples. Performance samples are collected from each vacuum pump and air stripper exhaust stack, and the influent and effluent of the air stripper.
- Quarterly
 - Completing all monthly activities.
 - Checking pump motors for wear.
 - Checking all electrical components for proper operation.
 - Cleaning groundwater treatment equipment.
 - Collecting System compliance samples.
 - Collecting compliance samples from the effluent of the System prior to discharge to the Monroe County Pure Waters Sewer System.

The O&M manual for the System contains the above information and full details of all equipment and components (Harding ESE, 2001).

3.0 SUMMARY OF RESULTS

Presented below are the results of the groundwater sampling events conducted from November 2000 to December 2002. Also included is a discussion of contaminant trends from the baseline event (November/December 2000) through eight quarterly events.

The wells sampled during the fourth quarterly (December 2002) event are divided into four categories. These categories are (1) the North and South TCE Source Areas; (2) Upgradient, which includes wells upgradient of the source areas; (3) Downgradient Perimeter, which includes wells downgradient of the source areas; and (4) Deep Bedrock, which includes BR-08 and BR-14. Well construction information is provided in Appendix E.

A summary of wells sampled and the analyses performed are found in Table 2-1. The baseline sampling event is summarized in Table 3-1. The sample results for the December 2002 sampling event are summarized in Tables 3-2 and 3-3. These tables present only detected volatile organic compound (VOC) results. Sample VOC results are also presented in “flag boxes” in Appendix A, Figures 2 and 3, representing overburden monitor wells and bedrock monitor wells. The following discussions will focus on TCE concentrations in the site’s monitor wells. TCE concentration trend graphs for both overburden and bedrock monitor wells are provided in Appendix F. These graphs present data from the Baseline, March 2001, June 2001, September 2001, December 2001, March 2002, June 2002, September 2002, and December 2002 sampling events. Table 3-4 presents a summary of the decline of TCE concentrations over time in monitor wells. Natural biodegradation results for the December 2002 event are summarized in Table 3-5 (see Section 3.6). Additionally, other degradation products have been detected in on-site wells further indicating the occurrence of natural biodegradation. Comprehensive results can be found in the laboratory reports located in Appendix B.

3.1 NORTH AND SOUTH TCE SOURCE AREAS

Overburden Monitor Wells (South TCE Source Area)

Monitor wells OB-04 and OB-06 are both located within the South TCE Source Area while OB-07 is within the plume. Comprehensive results for these wells are presented in Table 3-2.

Since the beginning of site groundwater monitoring, the highest concentration of TCE detected in OB-04 was 550,000 micrograms per liter ($\mu\text{g/L}$) in September 1997. Prior to startup of the System in January

Table 3-1
Summary of Extraction Well VOC Results for the
Baseline Sampling Event

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
EW-N-1*	11/10/00	2,400	93	28 J	--	--
EW-N-2*	11/10/00	7,200	1,100	--	--	--
EW-N-3*	11/10/00	13,000	490 J	--	--	--
EW-N-4*	11/11/00	840	31	--	--	--
EW-N-5*	11/11/00	640	--	--	--	--
EW-N-6*	11/11/00	6,800	130 J	--	--	--
EW-S-1S*	11/10/00	160	16 J	--	--	--
EW-S-1S (DUP)*	11/10/00	170	18 J	--	--	--
EW-S-1D*	11/10/00	200,000	11,000	--	--	--
EW-S-2*	11/08/00	360	180	18	180	4.5 J
EW-S-3*	10/27/00	1,100	60	--	--	--
EW-S-4*	10/26/00	60,000	36,000	--	--	--
EW-S-5*	10/27/00	590,000	--	--	--	--
EW-S-6*	10/27/00	13,000	1,200	--	--	--
EW-S-7*	11/08/00	130,000	1,900 J	--	--	--
EW-S-8*	10/27/00	570,000	--	--	--	--
EW-S-9*	11/08/00	16,000	460 J	--	--	--
EW-S-10*	11/09/00	--	--	--	--	--
EW-S-11*	11/08/00	--	--	--	--	--
EW-S-12*	11/08/00	--	--	--	--	--
EW-S-13*	11/09/00	--	--	--	--	--
EW-S-14*	11/09/00	--	--	--	--	--
EW-S-15*	11/09/00	--	--	--	--	--
EW-S-16*	11/09/00	--	--	--	--	--
BREW-N-1*	11/19/00	1,000	53	1.5 J	--	--
BREW-S-1*	11/19/00	250	140	3.1 J	--	--

Notes: -- = no detections	ID = identification
* = unique sampling event	J = estimated value
µg/L = micrograms per liter	TCE = trichloroethylene
1,1-DCE = 1,1-dichloroethylene	trans-1,2-DCE = trans-1,2-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene	VOC = volatile organic compound
DUP = duplicate	

Table 3-2
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-04	11/19/00	70,000	2,900	--	--	--
OB-04	03/24/01	150	3.2 J	--	--	--
OB-04	06/18/01	39,000	21,000	--	--	--
OB-04	09/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-04	12/17/01	71,500	56,000	170	108	10.2
OB-04	03/12/02	65,600	1,640	16.6	3.8	--
OB-04	06/09/02	3,650	554	--	--	--
OB-04	09/23/02	3,760	1,950	7.5	4.9	2
OB-04	12/09/02	46.3	5.5	--	--	--
OB-05	11/19/00	25,000	4,600	--	--	350
OB-05	03/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	09/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	12/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	03/02	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/10/02	52.8	--	--	--	--
OB-05	09/23/02	489	15	--	--	--
OB-05	12/09/02	604	13	--	--	--
OB-06	11/17/00	2,600	60	--	--	--
OB-06 (DUP)	11/17/00	3,300	80 J	--	--	--
OB-06	03/21/01	540	--	--	--	--
OB-06	06/15/01	720	12 J	--	--	--
OB-06	09/13/01	5,600	240	9.0 J	--	--
OB-06	12/13/01	637	13.7	--	--	--
OB-06	03/08/02	526	7.8	--	--	--
OB-06	06/07/02	184	2.8	--	--	--
OB-06	09/20/02	386	10.1	--	--	--
OB-06	12/06/02	100	1.5	--	--	--
OB-07	11/16/00	--	--	--	--	--
OB-07	03/28/01	7.5	--	--	--	--
OB-07	06/17/01	10 J	--	--	--	--
OB-07	09/17/01	17	1.8 J	--	--	--
OB-07	12/17/01	21.8	7	--	--	--
OB-07	03/07/02	4.2	--	--	--	--
OB-07	06/06/02	7.1	--	--	--	--
OB-07	9/19/02	12.4	--	--	--	--
OB-07	12/05/02	10.2	--	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-08	11/16/00	40,000	390 J	--	--	--
OB-08	03/20/01	29,000	390 J	--	--	--
OB-08	06/19/01	15,000	240 J	--	--	--
OB-08	09/18/01	27,000	560 J	--	--	--
OB-08	12/18/01	500	9.3	--	--	--
OB-08	03/12/02	15,750	208	8.6	2.7	--
OB-08	06/10/02	5,370	--	--	--	--
OB-08	09/24/02	5,440	110	3.6	--	--
OB-08	12/09/02	8,050	94.2	5	1.3	--
OB-09	11/16/00	180	14	--	--	--
OB-09	03/26/01	150	16	--	--	--
OB-09	06/17/01	150	17	--	--	--
OB-09	09/15/01	180	23	3.5 J	--	--
OB-09	12/15/01	141	20.5	2.3	--	--
OB-09	03/06/02	117	12	--	--	--
OB-09	06/05/02	86	7.4	--	--	--
OB-09	09/18/02	153	16.6	1.6	--	--
OB-09	12/05/02	88.5	9.2	--	--	--
TW-01	10/24/00	--	--	--	--	--
TW-01*	03/01	NS	NS	NS	NS	NS
TW-01*	06/01	NS	NS	NS	NS	NS
TW-01*	09/01	NS	NS	NS	NS	NS
TW-01*	12/01	NS	NS	NS	NS	NS
TW-01*	03/02	NS	NS	NS	NS	NS
TW-01*	06/02	NS	NS	NS	NS	NS
TW-01*	09/02	NS	NS	NS	NS	NS
TW-04	10/24/00	42	79	--	--	--
TW-04	03/22/01	14	16	--	--	--
TW-04	06/15/01	--	--	--	--	--
TW-04	09/14/01	27	38	--	--	--
TW-04	12/13/01	51.1	19.4	--	--	--
TW-04	03/05/02	51	3.7	--	--	--
TW-04	06/04/02	20.7	--	--	--	--
TW-04	09/17/02	21.2	7.1	--	--	--
TW-04	12/04/02	42.5	5.5	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Former Taylor Instruments Site
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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
TW-07	10/25/00	28	7.2	28	--	--
TW-07	03/29/01	--	--	1.2 J	--	--
TW-07	06/16/01	27	3.9 J	13	--	--
TW-07	09/15/01	74	11	18	--	--
TW-07	12/15/01	42.6	7.7	21.4	--	--
TW-07	03/06/02	18.7	2.6	6.4	--	--
TW-07	06/05/02	5	--	--	--	--
TW-07	09/18/02	32.9	5.1	12.4	--	--
TW-07	12/04/02	46	6.3	15.4	--	--
TW-09	10/24/00	230	36	--	--	--
TW-09	03/27/01	120	1.9 J	--	--	--
TW-09	06/16/01	200	7.4	--	--	--
TW-09	09/16/01	150	9.6	--	--	--
TW-09	12/15/01	110	4	--	--	--
TW-09	03/06/02	55.4	2	--	--	--
TW-09	06/05/02	36.5	--	--	--	--
TW-09	09/19/02	91.5	4	--	--	--
TW-09	12/05/02	38	--	--	--	--
TW-13	11/16/00	--	--	--	--	--
TW-13	03/20/01	--	--	--	--	--
TW-13	06/14/01	--	--	--	--	--
TW-13	09/12/01	--	--	--	--	--
TW-13	12/12/01	--	--	--	--	--
TW-13	03/08/02	--	--	--	--	--
TW-13	06/07/02	--	--	--	--	--
TW-13	09/19/02	--	--	--	--	--
TW-13	12/06/02	--	--	--	--	--
TW-17	11/17/00	1,000	7.9 J	--	--	--
TW-17	03/23/01	530	--	--	--	--
TW-17	06/16/01	490	--	--	--	--
TW-17	09/14/01	740	--	--	--	--
TW-17	12/14/01	515	--	--	--	--
TW-17	03/05/02	339	--	--	--	--
TW-17	06/04/02	393	--	--	--	--
TW-17	09/18/02	666	--	--	--	--
TW-17	12/04/02	390	--	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
TW-20	10/25/00	5.2	--	--	--	--
TW-20	03/27/01	12	--	--	--	--
TW-20	06/16/01	2.9 J	--	--	--	--
TW-20	09/14/01	--	--	--	--	--
TW-20	12/14/01	3.1	--	--	--	--
TW-20	03/06/02	2.4	--	--	--	--
TW-20	06/05/02	2.7	--	--	--	--
TW-20	09/18/02	--	--	--	--	--
TW-20	12/04/02	11.6	--	--	--	--
W-2	10/21/00	--	--	--	--	--
W-2*	03/01	NS	NS	NS	NS	NS
W-2*	06/01	NS	NS	NS	NS	NS
W-2*	09/01	NS	NS	NS	NS	NS
W-2*	12/01	NS	NS	NS	NS	NS
W-2*	03/02	NS	NS	NS	NS	NS
W-2*	06/02	NS	NS	NS	NS	NS
W-2*	09/02	NS	NS	NS	NS	NS
W-2*	12/02	NS	NS	NS	NS	NS
W-4	11/17/00	--	--	--	--	--
W-4	03/22/01	1.6 J	--	--	--	--
W-4	06/15/01	1.1 J	--	--	--	--
W-4	09/13/01	--	--	--	--	--
W-4	12/12/01	--	--	--	--	--
W-4	03/08/02	--	--	--	--	--
W-4	06/07/02	--	--	--	--	--
W-4	09/19/02	--	--	--	--	--
W-4	12/06/02	1	--	--	--	--
W-5	11/16/00	--	27	11	--	--
W-5	03/23/01	120	25	8.1	--	--
W-5	06/18/01	62	23	9.6	--	--
W-5	09/17/01	64	9.1	6.5	--	--
W-5 (DUP)	09/17/01	62	11	7.3	--	--
W-5	12/17/01	1,435	39.5	9	--	--
W-5 (DUP)	12/17/01	1,780	36.2	8.5	--	--
W-5	03/07/02	737	21.6	3.5	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
W-5 (DUP)	03/07/02	607	23.2	3.9	--	--
W-5	06/06/02	155	15.7	--	--	--
W-5 (DUP)	06/06/02	150	13.8	--	--	--
W-5	09/19/02	960	49.6	--	--	--
W-5 (DUP)	09/19/02	676	48.5	4.7	--	--
W-5	12/05/02	777	52	3.6	--	--
W-5 (DUP)	12/05/02	843	51.7	4	--	--
W-6	10/24/00	--	--	--	--	--
W-6**	03/01	NS	NS	NS	NS	NS
W-6**	06/01	NS	NS	NS	NS	NS
W-6	9/13/01	--	--	--	--	--
W-6	12/12/01	--	--	--	--	--
W-6	03/09/02	--	3	--	--	--
W-6	06/08/02	--	10.3	--	--	--
W-6	09/21/02	--	9.6	--	--	--
W-6	12/07/02	--	8.1	--	--	--

Notes: -- = no detections	ID = identification
* = will not be sampled during quarterly events.	J = estimated value
** = W-6 was not sampled due to obstruction.	NS = not sampled
µg/L = micrograms per liter	TCE = trichloroethylene
1,1-DCE = 1,1-dichloroethylene	trans-1,2-DCE = trans-1,2-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene	VOC = volatile organic compound
DUP = duplicate	

Table 3-3
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-01	11/17/00	180	550	4.3 J	--	3.5 J
BR-01	03/21/01	320	34	2.2 J	--	--
BR-01 (DUP)	03/21/01	320	35	2.4 J	--	--
BR-01	06/16/01	270	59	4.4 J	--	--
BR-01	09/14/01	31	170	16	--	--
BR-01	12/14/01	63.8	77.5	2	--	--
BR-01	03/09/02	47.3	5.5	1.6	--	--
BR-01	06/08/02	85.7	10.1	3.2	--	--
BR-01	09/20/02	107	16	4	--	--
BR-01	12/07/02	14.3	83	3.8	--	--
BR-02	11/18/00	1,800	540	31 J	--	--
BR-02	03/21/01	1,200	95	--	--	--
BR-02	06/17/01	1,000	94	27 J	--	--
BR-02	09/15/01	7,000	1,500	63	31 J	--
BR-02	12/15/01	6,500	1,830	59.8	30.3	19.6
BR-02	03/09/02	588	79.6	20.8	1.2	--
BR-02	06/08/02	568	122	2.2	--	--
BR-02	09/21/02	768	518	24.4	4.6	18.7
BR-02	12/07/02	694	172	29.8	--	5.6
BR-03	11/18/00	440	99	1.2 J	2.2 J	--
BR-03	03/22/01	810	12 J	--	3.2 J	--
BR-03	06/15/01	500	20 J	--	--	--
BR-03	09/14/01	330	7.8 J	--	--	--
BR-03	12/13/01	780	7.6	--	2.2	--
BR-03	03/08/02	599	9.8	--	2.1	--
BR-03	06/07/02	854	19.7	--	2.8	--
BR-03	09/20/02	370	6.5	--	--	--
BR-03	12/07/02	821	13.5	--	--	--
BR-04	11/19/00	10,000	600	140	17 J	25 J
BR-04	03/24/01	9,000	400	95 J	--	--
BR-04	06/19/01	4,300	320	61 J	--	--
BR-04	09/17/01	5,000	420	100 J	--	--
BR-04	12/17/01	5,700	430	79.9	9	27.4
BR-04	03/12/02	5,750	384	77	8.1	23.4
BR-04	06/10/02	4,570	338	49	--	--
BR-04	09/23/02	3,310	551	63.1	8.3	32.2
BR-04	12/09/02	5,300	535	77.6	8.3	27.1

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002,
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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-05	11/19/00	4,800	1,200	130	--	160
BR-05	03/25/01	5,800	850	120 J	--	160
BR-05	06/19/01	4,300	1,600	130	37 J	290
BR-05 (DUP)	06/19/01	3,700	1,500	--	--	270
BR-05	09/18/01	2,500	1,800	150	38 J	420
BR-05	12/18/01	3,420	2,480	153.5	41.5	290.5
BR-05	03/12/02	3,050	1,734	164	40.2	326
BR-05	06/10/02	4,470	118	23	25	176
BR-05	09/23/02	2,950	1,720	138	29.7	434
BR-05	12/09/02	3,140	2,240	170	49.1	390
BR-06	11/17/00	--	--	--	--	--
BR-06	03/22/01	--	--	--	--	--
BR-06	06/15/01	1.6 J	--	--	--	--
BR-06	09/12/01	--	--	--	--	--
BR-06	12/12/01	--	--	--	--	--
BR-06	03/09/02	--	--	--	--	--
BR-06	06/08/02	--	--	--	--	--
BR-06	9/21/02	--	--	--	--	--
BR-06	12/08/02	--	--	--	--	--
BR-07	11/18/00	7.4	29	10	--	220
BR-07	03/23/01	3.4 J	34	13	--	210
BR-07	06/14/01	2.7 J	33	13	--	200
BR-07 (DUP)	06/14/01	2.2 J	34	12	--	200
BR-07	09/12/01	6.2	32	16	--	180
BR-07 (DUP)	09/12/01	5.0	31	14	--	180
BR-07	12/12/01	4.7	28.5	10.2	--	101
BR-07 (DUP)	12/12/01	4.6	29.3	10.3	--	104
BR-07	03/11/02	--	9	4.3	--	33.6
BR-07 (DUP)	03/11/02	--	8.8	4.4	--	33.7
BR-07	06/08/02	4.9	32.9	14.4	--	119
BR-07 (DUP)	06/08/02	4.4	31	--	--	110
BR-07	09/21/02	4	27.3	14.8	--	90.4
BR-07 (DUP)	09/21/02	2.8	28.5	15.2	--	89.5
BR-07	12/08/02	--	17.6	10.1	--	64.6
BR-07 (DUP)	12/08/02	--	17.8	10.4	--	65.9

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-08 (Deep)	11/19/00	540	44	5.2 J	--	7.0 J
BR-08 (Deep)	03/24/01	1,100	320	6.7 J	--	--
BR-08 (Deep)	06/15/01	720	210	--	--	--
BR-08 (Deep)	09/13/01	830	250	--	--	--
BR-08 (Deep)	12/13/01	649	246	3	--	3.1
BR-08 (Deep)	03/08/02	621	242	3	--	4
BR-08 (Deep)	06/07/02	528	212	2.8	--	--
BR-08 (Deep)	09/20/02	463	220	2.8	--	--
BR-08 (Deep)	12/06/02	398	222	3.3	1.2	4.5
BR-09	11/18/00	13,000	190 J	--	--	--
BR-09	03/28/01	9,500	100 J	--	--	--
BR-09	06/19/01	1,500	36 J	--	--	--
BR-09	09/18/01	5,500	68 J	--	--	--
BR-09	12/18/01	6,000	60	2.9	--	--
BR-09	03/12/02	2,420	302	5.4	--	--
BR-09	06/10/02	6,530	--	--	--	--
BR-09	09/23/02	4,590	64.3	5.1	--	--
BR-09	12/09/02	9,030	95.3	7.3	1.3	--
BR-10	11/18/00	4,000	450	27 J	--	--
BR-10	03/28/01	4,700	980	110 J	--	--
BR-10	06/18/01	8,500	1,000	--	--	--
BR-10	09/17/01	8,700	1,700	160 J	--	--
BR-10	12/16/01	5,350	1,200	82.8	3.4	5.6
BR-10	03/11/02	3,745	1,090	78.2	3.9	5.5
BR-10	06/09/02	5,100	1,290	64.6	4.7	5.3
BR-10	09/22/02	--	120	9.8	--	--
BR-10	12/09/02	3,060	750	60.1	2.3	--
BR-11	11/18/00	1,400	320	52	--	13 J
BR-11	03/28/01	44,000	260	120	21	--
BR-11 (DUP)	03/28/01	52,000	270	120	19 J	21
BR-11	06/20/01	39,000	660 J	--	--	--
BR-11	09/18/01	60,000	--	--	--	--
BR-11	12/18/01	140	339	108	2	35.4
BR-11	03/13/02	33,300	370	106	10.9	28.1
BR-11	06/10/02	874	52	--	--	32
BR-11	09/24/02	37,200	440	82.4	12.2	18
BR-11	12/09/02	34,100	1,650	80.1	25.8	31.1

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-12	11/19/00	200	8.1	--	--	--
BR-12	03/25/01	130	21	--	--	--
BR-12	06/17/01	99	26	--	--	--
BR-12	09/15/01	27	37	2.1 J	--	--
BR-12	12/16/01	--	3	--	--	--
BR-12	03/11/02	7.4	15.3	--	--	--
BR-12	06/09/02	17.4	9.6	--	--	--
BR-12	09/22/02	3.5	23.8	--	--	--
BR-12	12/08/02	--	28.6	--	--	--
BR-13	11/19/00	2.5 J	--	--	--	--
BR-13	03/25/01	3,200 J	150	14	1.7 J	1 J
BR-13	06/18/01	3,100	160	--	--	--
BR-13	09/16/01	2,600	160	--	--	--
BR-13	12/16/01	156	14.6	--	--	--
BR-13	03/11/02	132	23.7	--	--	--
BR-13	06/09/02	1,980	558	11.2	4.2	3.4
BR-13	09/22/02	3,240	800	22	6	5.1
BR-13	12/08/02	2.8	--	--	--	--
BR-14 (Deep)	11/19/00	--	1.2 J	--	--	--
BR-14 (Deep)	03/23/01	1.2 J	--	--	--	--
BR-14 (Deep)	06/16/01	--	--	--	--	--
BR-14 (Deep)	09/13/01	--	--	--	--	--
BR-14 (Deep)	12/14/01	2.2	--	--	--	--
BR-14 (Deep)	03/09/02	--	--	--	--	--
BR-14 (Deep)	06/08/02	--	--	--	--	--
BR-14 (Deep)	09/20/02	--	--	--	--	--
BR-14 (Deep)	12/07/02	--	--	--	--	--
BR-15	11/19/00	2,700	54 J	--	--	--
BR-15 (DUP)	11/19/00	2,700	49 J	--	--	--
BR-15	03/26/01	2,500	33 J	--	--	--
BR-15	06/18/01	2,300	49 J	--	--	--
BR-15	09/16/01	4,800	110 J	--	--	--
BR-15	12/16/01	6,590	189	28.2	2	1.1
BR-15	03/11/02	5,500	172	36.6	2.2	--
BR-15	06/09/02	5,800	373	36.9	4.6	3.8
BR-15	09/22/02	4,390	555	40.3	7.5	5.4
BR-15	12/08/02	4,740	177	43.6	2.8	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the
Baseline; 2001; and March 2002, June 2002,
September 2002 and December 2002 Sampling Events

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Sample ID	Date Sampled	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-16	11/19/00	6.0	3.8 J	--	--	--
BR-16	03/25/01	1.2 J	--	--	--	--
BR-16	06/17/01	--	--	--	--	--
BR-16	09/15/01	--	--	--	--	--
BR-16	12/16/01	--	--	--	--	--
BR-16	03/10/02	--	--	--	--	--
BR-16	06/09/02	--	--	--	--	--
BR-16	09/21/02	--	--	--	--	--
BR-16	12/08/02	--	--	--	--	--
BR-17	11/18/00	840	160	84	3.6 J	--
BR-17	03/24/01	6,900	360	93	9.4 J	52
BR-17	06/15/01	5,200	260	68 J	--	46
BR-17	09/13/01	4,100	220	60 J	--	57 J
BR-17	12/13/01	3,840	248	44	4.7	33.4
BR-17	03/08/02	2,600	208	56.5	5.1	57
BR-17	06/07/02	4,540	198	49.8	5	45.9
BR-17	09/20/02	2,740	210	36.8	5.2	24.5
BR-17	12/06/02	186	204	65.2	5.2	63.2

Notes: -- = no detections
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
DUP = duplicate
ID = identification
J = estimated value
TCE = trichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
VOC = volatile organic compound

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2001, the measured baseline TCE concentration was 70,000 $\mu\text{g/L}$. A maximum of 71,500 $\mu\text{g/L}$ was measured in December 2001 and concentrations decreased to 46.3 $\mu\text{g/L}$ in December 2002 (Table 3-4 and Concentration Trend Graphs, Appendix F). Increases from the baseline are fairly typical during active remediation. Importantly, the overall trend in contamination is a significant reduction in levels. Over the past two years of System operation, concentrations of TCE have been reduced from the baseline by 99%.

OB-06 was installed within the South TCE Source Area during the summer of 2000. Baseline TCE concentration was 2,600 $\mu\text{g/L}$ and subsequently rose to a high of 5,600 $\mu\text{g/L}$ in September 2001 (Table 3-4) and then began decreasing. As seen in the Concentration Trend Graph presented in Appendix F, concentrations have shown an overall decrease. Over the two years of System operation, the concentrations have decreased by 98 percent to level of 100 $\mu\text{g/L}$ in December 2002.

Monitor Well OB-07 was also installed during the summer of 2000 and TCE levels during the baseline event were below detection limits. Since that time, concentrations increased to a high of 21.8 $\mu\text{g/L}$ in December 2001 and subsequently decreased to 10.2 $\mu\text{g/L}$ in December 2002, indicating an overall decrease of 53 percent since startup of the System (Table 3-4, Concentration Trend Graphs – Appendix F). Since peaking in December 2001, measured levels have been between 4.2 and 12.4 $\mu\text{g/L}$. As with OB-04 and OB-06, concentrations have remained below the highest level detected since the baseline event.

Overburden Monitor Wells (North TCE Source Area)

Monitor wells OB-05 and OB-08 are both located within the North TCE Source Area while OB-09 is within the plume. Comprehensive results for these wells are presented in Table 3-2.

The highest TCE concentration reported for OB-05 (120,000 $\mu\text{g/L}$) was collected prior to the baseline sampling event. Since the baseline event, concentrations have decreased 98 percent from 25,000 $\mu\text{g/L}$ to 604 $\mu\text{g/L}$ in December 2002 (Table 3-4, Concentration Trend Graph – Appendix F) and have never reached the level reported during the baseline event.

OB-08 was installed during the summer of 2000 and the highest results for TCE (40,000 $\mu\text{g/L}$) were reported during the baseline event (Table 3-4). Over the past two years of System operation, the TCE levels have decreased 80 percent to 8,050 $\mu\text{g/L}$ in December 2002. As shown in the Concentration Trend Graph for this well (Appendix F), concentrations have generally decreased. From the time of remedial system startup, TCE concentrations have remained well below the initial baseline results.

Monitor well OB-09 was also installed during the summer of 2000 and the highest TCE concentration of 180 µg/L was measured during the baseline event. During the two years of System operation, the concentrations have remained fairly steady with an overall reduction of 51 percent to 88.5 µg/L in December 2002 (Table 3-4, Concentration Trend Graphs – Appendix F). Concentrations have remained below the highest concentration, reported during baseline monitoring.

Bedrock Monitor Wells (South TCE Source Area)

Bedrock monitor wells BR-04, BR-09, BR-10, BR-11, and BR-17 are located within the South TCE Source Area. Comprehensive results for these wells are presented in Table 3-3.

The highest TCE concentrations detected in BR-04 (27,000 µg/L) occurred prior to the baseline sampling event (Table 3-4). The baseline level was 10,000 µg/L and in the past two years the level of contamination in that well had decreased by 47 percent to 5,300 µg/L in December 2002. As can be seen on the Concentration Trend Graph (Appendix F), concentrations have remained below those detected during the baseline event, and since June 2001 have ranged from 3,310 to 5,750 µg/L.

BR-09 was installed during the summer of 2000 and was first sampled during the baseline event. The baseline concentration was 13,000 µg/L. Concentrations have decreased by 31 percent to a value of 9,030 µg/L in December 2002 (Table 3-4 and Concentration Trend Graph – Appendix F) and have remained below maximum concentration measured during the baseline event.

Monitor well BR-10 was also installed in 2000 and first sampled during the baseline sampling event where a concentration level of 4,000 µg/L was reported. The highest concentration was detected in September 2001 at 8,700 µg/L (Table 3-4), and had subsequently decreased to 3,060 µg/L in December 2002, yielding a 65 percent decrease from the peak. The Concentration Trend Graph presented in Appendix F indicates fluctuations in TCE concentrations. These fluctuations in contaminant levels may be due to mobilization of contaminants caused by the pumping of the bedrock extraction well as well as such factors as variations in groundwater elevation, precipitation rates and differing groundwater travel times and pathways through fractures in the bedrock.

BR-11 was also installed during the summer of 2000 and first sampled during the baseline sampling event. Concentrations were measured during this event at 1,400 µg/L and have fluctuated significantly over the past two years (Table 3-4, Concentration Trend Graph – Appendix F). The highest TCE concentration of 60,000 µg/L was measured in September 2001, with a subsequent decline to 34,100 µg/L

in December 2002. Since September 2001 concentrations have decreased approximately 43 percent, but more importantly have remained below the highest value reported. The fluctuations observed may be due to such factors as variations in groundwater elevation, precipitation rates and differing groundwater travel times and pathways through fractures in the bedrock.

BR-17 is the last bedrock well installed during the summer of 2000 within the South TCE source area. This well was first sampled during the baseline sampling event, at which time it had 840 $\mu\text{g/L}$. The highest concentration (6,900 $\mu\text{g/L}$) in March 2001 was shortly after System startup. Overall, concentrations have steadily decreased by 97 percent, to 186 $\mu\text{g/L}$ in December 2002 (Table 3-4). This steady decline can also be seen in the Concentration Trend Graph presented in Appendix F. Contaminant levels have remained below the highest value reported (6,900 $\mu\text{g/L}$) in March 2001.

Bedrock Monitor Wells (North TCE Source Area)

BR-05, BR-12, BR-15, and BR-16 are located in the North TCE Source Area. Comprehensive results are presented in Table 3-3.

BR-05 is the only bedrock monitor well which had been installed within the North TCE source area prior to the summer of 2000. The highest concentration (12,000 $\mu\text{g/L}$) was reported for this well prior to the baseline sampling event. During the baseline event, concentrations were measured at 4,800 $\mu\text{g/L}$. Overall, concentrations have decreased by 46 percent to 3,140 $\mu\text{g/L}$ in December 2002 (Table 3-4).

BR-12 was installed in 2000 and first sampled during the baseline sampling event (200 $\mu\text{g/L}$). TCE concentrations have trended downward falling by 99 percent to non-detectable levels in December 2002 (Table 3-4). The Concentration Trend Graph presented in Appendix F shows the steady decline of TCE over the past two years.

BR-15 was installed in 2000 and first sampled during the baseline sampling event (2,700 $\mu\text{g/L}$). The highest TCE concentration in BR-15 (6,590 $\mu\text{g/L}$) was detected in December 2001. Since then concentrations have decreased by 28 percent to 4,740 $\mu\text{g/L}$ in December 2002 (Table 3-4). The majority of concentrations detected over the past two years have been higher than baseline levels (Concentration Trend Graph – Appendix F), which may be due to mobilization of contaminants in the subsurface due to the operation of the bedrock extraction well.

Monitor Well BR-16 was installed in the summer of 2000 and reported the highest value for TCE at 6 $\mu\text{g/L}$ during the baseline sampling event. TCE concentrations have decreased by 67 percent over the past two years of System operation. Of the eight quarterly events conducted, seven have yielded non-detectable levels of TCE.

3.2 UPGRAIDENT MONITOR WELLS

Overburden Monitor Wells

W-2 and W-6 are southwest of the source areas and are considered to be upgradient. No TCE was detected in W-2 during the Baseline event; it is not sampled for VOCs as part of the quarterly sampling program. Well W-6 is sampled quarterly and no TCE or other VOCs have been detected. Well W-4 is located west of the source areas, and is also considered upgradient. Detections of TCE have consistently been less than 2 $\mu\text{g/L}$.

TW-13 is considered to be upgradient of the North TCE Source Area. Concentrations of TCE have been non-detectable for all eight quarterly sampling events, as well as the baseline event.

Bedrock Monitor Wells

BR-06 and BR-07 are also upgradient wells, located southwest and west of the source areas. No TCE was detected in BR-06 during any quarterly sampling event. In BR-07, all detections of TCE from Baseline to present have been below 10 $\mu\text{g/L}$.

3.3 PERIMETER DOWNGRAIDENT MONITOR WELLS

Overburden Monitor Wells

Monitor wells TW-04, TW-17, TW-20, and W-5 are downgradient of the source areas and located along the perimeter of the site. Comprehensive results for these wells are presented in Table 3-2.

The highest TCE concentration (92 $\mu\text{g/L}$) was detected in TW-04 prior to the baseline sampling event which reported a TCE level of 42 $\mu\text{g/L}$. Since the baseline event, the highest concentration of 51.1 $\mu\text{g/L}$ was detected in June 2001 and has decreased by 17 percent to a level of 42.5 $\mu\text{g/L}$ (December 2002).

TCE levels in monitor well TW-07 fluctuated over the two years of System operation, likely reflecting the effects of the extraction systems in the north and south source areas. The baseline concentration was 28

μg/L. The highest value (74 μg/L) occurred in September 2001. Since that time the levels have ranged from 5 μg/L to 46 μg/L. Overall, concentrations have decreased by 38 percent to a value of 46 μg/L in December 2002.

In TW-09 a TCE concentration of 880 J μg/L was measured prior to the baseline sampling event in 2000. The baseline level was 230 μg/L. As shown in the Concentration Trend Graph (Appendix F), TCE has steadily declined by 83 percent from the baseline level to a level of 38 μg/L in December 2002.

In monitor well TW-17, TCE levels have ranged from 1,900 μg/L (pre-baseline) to a baseline concentration of 1,000 μg/L to a level of 390 μg/L in December 2002 (Table 3-4). Since the baseline event, concentrations have decreased by 61 percent, and all quarterly results have remained below the baseline level.

In monitor well TW-20 TCE levels have been consistent since the baseline event throughout the quarterly sampling events (Concentration Trend Graph – Appendix F). The baseline TCE concentration was 5.2 μg/L and several small fluctuations can be observed at the March 2001 and December 2002 events with concentrations of 12 μg/L and 11.6 μg/L, respectively.

Monitor well W-5 had TCE levels of 3,000J μg/L prior to the baseline sampling event. During the baseline event, TCE concentrations were non-detectable. Since System startup, concentrations increased to a maximum of 1,435 μg/L in December 2001, but have declined 46 percent since then to a level of 777 μg/L.

The perimeter downgradient bedrock monitor wells are BR-01, BR-02, BR-03, and BR-13. Comprehensive results are presented in Table 3-3 and on Figure 3.

The highest concentration (3,600 μg/L) was measured in BR-01 prior to the baseline sampling (Table 3-4). A TCE level of 180 μg/L was measured during the baseline event and reached 320 μg/L in March 2001. Overall, since the March 2001 event, concentrations have steadily declined by 96 percent to 14.3 μg/L in December 2002.

In BR-02, a historical high concentration of 18,000 μg/L was measured prior to the baseline sampling event. During the baseline monitoring, 1,800 μg/L of TCE was measured. After system startup levels reached a high of 7,000 μg/L in September 2001. Since then, the concentrations have declined

significantly, remaining below 800 $\mu\text{g/L}$. The measured level in December 2002 was 694 $\mu\text{g/L}$ (a 90 percent decrease from the peak).

TCE levels in Monitor Well BR-03 have continued to fluctuate. Since system startup concentration reached a maximum of 854 $\mu\text{g/L}$ in September 2002. Since that time, levels have decreased by 4 percent to a value of 821 $\mu\text{g/L}$ in December 2002.

BR-13, on the northern perimeter near the north source area, was installed in the summer of 2000 and first sampled during the baseline sampling event with an estimated TCE concentration of 2.5 $\mu\text{g/L}$. Since then, baseline concentrations have fluctuated from a high of 3,240 $\mu\text{g/L}$ (September 2002) to a low of 2.8 $\mu\text{g/L}$ in December 2002 yielding a decline of 99 percent.

Deep Bedrock Monitor Wells

BR-08 is the deep bedrock well located in the South TCE Source Area, while BR-14 is located in the North TCE Source Area. Comprehensive results are presented in Table 3-3. BR-08 TCE concentrations increased during the first quarter after System startup to a level of 1,100 $\mu\text{g/L}$ and then began trending downward with some fluctuations. The trend has been consistently downward since the fourth quarter 2001 and levels have been beneath the baseline level for the last three quarters. Overall the concentrations have decreased by 64 percent since the baseline sampling event.

TCE levels in monitor well BR-14 (in the north source area) have been non-detectable in 6 out of 8 quarterly sampling events. The highest level (2.2 $\mu\text{g/L}$) was detected in December 2001.

3.4 OFF-SITE MONITORING

An investigation of off-site subsurface conditions was completed by Haley and Aldrich in 2001. This investigation included installation of four off-site monitor well pairs in both overburden and bedrock. The approximate locations of these wells are shown on Figures 4 and 5 in Appendix A. Groundwater samples were collected following well installation and results are documented in "Report on Offsite Groundwater Investigation Former Taylor Instrument Site" prepared by Haley & Aldrich of New York, dated September 6, 2001. An additional sampling event was completed on October 18, 2001 and results are documented in "Supplemental Offsite Groundwater Sampling, Former Taylor Instrument Site" letter report, dated December 11, 2001 (Haley & Aldrich). Results from all eight wells for both events indicated non-detectable levels of VOCs.

3.5 POTENTIOMETRIC SURFACE

After each quarterly monitoring event, a potentiometric surface map is generated to depict groundwater elevations for the overburden groundwater. Surfer™ (Version 7.0), a Windows-based program, was used to plot the potentiometric surface map in Appendix A, Figure 4. This program mathematically calculates contours based upon groundwater elevation measurements collected in the field.

The December 2002 map (Figure 4) was based upon water level information collected during the course of sampling activities on the subject site. Overburden potentiometric surface mapping for the December 2002 event agrees with past mapping in the North TCE Source Area, but does not show the groundwater extraction effect caused by the South TCE Source Area extraction system as seen before. The South Source Area DPVE System was not operational prior to the sampling event. Thus, the capture zone did not have an opportunity to develop prior to water level measurements.

Attempts have been made to contour the bedrock potentiometric surface, but the bedrock water level data cannot readily be plotted due to the large variation in elevation heads. These variations are due to the fractured bedrock system. The head data appears to be bi-modally distributed possibly reflecting differing elevations of water bearing fractures. The absence of contaminants at the southwest corner of the site (BR-06) and their presence in wells along the north and east site perimeter also support the interpretation that bedrock flow beneath the two source areas is generally towards the north. Bedrock water level elevations are presented in Figure 5 in Appendix A.

3.6 NATURAL BIODEGRADATION

During the December 2002 sampling event, natural biodegradation parameters were collected from nine monitor wells including background well W-2 and perimeter wells TW-04, TW-07, TW-09, TW-17, TW-20, and W-5. Samples were also collected from OB-07 and OB-09, which are located within the TCE source areas. Table 3-5 shows a comparison between the natural biodegradation parameters in nine monitor wells and the values given in the EPA screening protocol as favorable for natural biodegradation of chlorinated solvents (EPA, 1998). Shaded values in the table show values favorable for natural biodegradation. W-2 data is provided for background values.

Table 3-5
Summary of Natural Biodegradation Results,
December 2002 Sampling Event¹

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Parameter	Value Favorable for Natural Biodegradation	TW-04	TW-07	TW-09	TW-17	TW-20	W-5	OB-07	OB-09	W-2 (background)
DO (mg/L)	<0.5	3.47	2.30	1.90	6.44	4.18	2.34	0.90	0.92	6.00
Nitrate (mg/L)	<1	0.30	31.2	1.37	0.24	3.04	2.50	7.24	<0.10	NA
Iron II (mg/L)	>1	0.330	0.214	0.506	<0.10	0.185	0.659	0.693	0.43	NA
Sulfate (mg/L)	<20	251	374	195	234	70.2	82	510	269	NA
Sulfide (mg/L)	>1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA
Methane (mg/L)	>0.5	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
ORP (mV)	<50	-77	-10	-12	18	-31	136	-121	-63	-79
pH	5<pH<9	7.35	7.01	6.82	7.14	7.15	7.12	7.55	7.17	7.72
TOC (mg/L)	>20	1.88	2.61	1.35	<1.00	<1.00	<1.00	4.24	1.60	NA
Temperature (°C)	>20	12.78	10.16	13.47	11.17	12.41	12.51	12.18	12.97	13.12
CO ₂ (mg/L)	Note 1	<3.0	<3.0	10.9	41.6	10.7	26.2	<3.0	18.2	<3.0
Alkalinity (mg/L)	Note 1	223	323	211	324	328	368	162	262	219
Chloride (mg/L)	Note 1	10.7	34.4	7.37	21.3	14.7	14.9	87.5	7.08	15
BTEX (mg/L)	>0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA
Ethene (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
Ethane (mg/L)	>0.01	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	NA
Daughter Products Detected	Any detection of daughter products	Yes	Yes	No	No	No	Yes	No	Yes	NA
See notes at end of table.										

Table 3-5 (Continued)
Summary of Natural Biodegradation Results,
December 2002 Sampling Event¹

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Reference: EPA. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* EPA/600/R-98/128 (September).

¹ W-2 is the background well; other wells are perimeter wells.

Note 1: A value greater than two times the background value is considered favorable for natural biodegradation. The W-2 value is the background value.

Note: Shading indicates parameters supportive of natural biodegradation.

DO = dissolved oxygen

mg/L = milligrams per liter

NA = not applicable

ORP = oxygen reduction potential

mV = millivolt

TOC = total organic compound

°C = degrees Celsius

CO₂ = carbon dioxide

BTEX= benzene, toluene, ethylbenzene, and xylene

DCE = dichloroethylene

VOC = volatile organic compound

J = estimated

EPA = Environmental Protection Agency (United States)

µg/L = micrograms per liter

TCE = trichloroethylene

Table 3-5 shows that TCE daughter products were detected in four out of the eight perimeter and source area monitor wells. Several other parameters measured in each of these monitor wells containing TCE daughter products were indicative that natural biodegradation is occurring. While daughter products were not detected in TW-20, TW-09, TW-17, and OB-07, these wells have several other parameter readings favorable for natural biodegradation. Concentrations of daughter products may be present in the vicinity of these wells at concentrations less than the sample quantitation limits (SQLs) or daughter products may have completely degraded to non-toxic end products, such as carbon dioxide, water, and chloride.

In summary, values for various natural biodegradation parameters and the presence of TCE daughter products indicate that natural biodegradation is occurring.

3.7 TREATMENT SYSTEM PERFORMANCE

The System was fully operational on January 6, 2001. Since then, it has operated 96 percent of available hours through December 2002. The system operated 94 percent of available hours during the fourth quarter of operation in 2002. The downtime during the fourth quarter was due to operational problems with the programmable logic controller. The main DPVE trunk lines were also cleaned out to remove calcium buildup. Table 3-6 provides a summary of quarterly System operational data. The System is currently extracting soil vapor and groundwater from 23 DPVE wells: EW-S-1 through EW-S-16 and EW-N-1 through EW-N-6, and groundwater from two bedrock extraction wells BREW-S-1 and BREW-N-1 (see Figure 1, Appendix A). The vapor extracted from the dual-phase operation is discharged through the effluent piping manifold of the three vacuum pumps. The groundwater collected from both the DPVE wells and from the bedrock extraction wells is combined in an equalization tank prior to treatment via the tray air stripper. The system has extracted approximately 27.4 million gallons of groundwater through December 2002.

During the fourth quarter of operation in 2002, 2.7 million gallons of groundwater was extracted with an average flow rate of 22 gallons per minute, and a total of 112 pounds of VOCs were removed from the subsurface (see Figures 6 and 7, Appendix A) yielding an approximate ratio of 1 pound of VOCs removed for every 24,000 gallons of water removed. A total of 2,694 pounds of contaminants have been removed since startup of the system. The majority of VOCs are removed from the overburden through the vapor phase and stripped from groundwater during the vacuum extraction process. During the fourth quarter of operation in 2002, approximately 95 pounds (85 percent) of VOCs were removed by the vacuum extraction process and the remaining 17 pounds (15 percent) was removed by air stripping of the collected groundwater. Table 3-7 summarizes groundwater sample results from the equalization tank and vapor sampling results from the effluent of three vacuum pumps and air stripper. As indicated by the results,

Table 3-6
System Operational Summary,
January 2001 – December 2002

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Parameter	2001			
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
System Up-time (%)	89	99.9	99	99.9
Average System Vacuum ¹				
South Source Area (in. Hg)	19	16	16	17
North Source Area (in. Hg)	15	18	16	16
Average System Groundwater Flowrates ²				
Total System (gpm)	26	26	24	25
Dual Phase Extraction (gpm)	8	7	6	7
Bedrock Extraction (gpm)	18	18	18	18
Average System Vapor Flowrates ¹				
Dual Phase Extraction South Source Area (CFM)	161	176	180	167
Dual Phase Extraction North Source Area (CFM)	117	113	175	127
System Mass Removal Rate (lbs./hr) ³	0.17	0.05	0.04	0.031
System Mass Removed (lbs.) ³	406	443	289	197
Cumulative Mass Removed (lbs.) ³	906	1,349	1,637	1,834
Air Stripper Removal Efficiency (%) ³	99.6	99.6	99.3	99.4
Quarterly Groundwater Recovered (gallons) ²	3,833,248	3,345,131	3,275,792	3,256,961
Cumulative Groundwater Recovered (gallons) ²	3,833,248	7,178,379	10,454,171	13,711,132
Gallons to Remove 1 Pound of VOC ³	9,441	7,551	11,335	16,533

See notes at end of table.

Table 3-6 (Continued)
System Operational Summary,
January 2001 – December 2002

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Parameter	2002					
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter		
				Oct	Nov	Dec
System Up-time (%)	99.3	99.3	89	98	99	84
Average System Vacuum ¹						
South Source Area (in. Hg)	18	21	17	22	20	20
North Source Area (in. Hg)	17	22.5	14 ⁴	18	17	17
Average System Groundwater Flowrates ²						
Total System (gpm)	24	28	23	22	22	23
Dual Phase Extraction (gpm)	7	11	7	8	7	9
Bedrock Extraction (gpm)	17	17	16	14	15	14
Average System Vapor Flowrates ¹						
Dual Phase Extraction South Source Area (CFM)	167	128	165	110	110	110
Dual Phase Extraction North Source Area (CFM)	113	100	75 ⁴	115	110	110
System Mass Removal Rate (lbs./hr) ³	0.03	0.06	0.02	0.01	0.02	0.05
System Mass Removed (lbs.) ³	145	453	150	112 (4 th Quarter Combined)		
Cumulative Mass Removed (lbs.) ³	1,979	2,432	2,582	2,601	2,633	2,694
Air Stripper Removal Efficiency (%) ³	99.7	99.4	99.9	99.9	99.0	99.7
Quarterly Groundwater Recovered (gallons) ²	3,036,973	5,080,273	2,795,716	2,765,779 (4 th Quarter Combined)		
Cumulative Groundwater Recovered (gallons) ²	16,748,105	21,828,378	24,624,094	25,586,532	26,527,428	27,389,873
Gallons to Remove 1 Pound of VOC ³	20,945	11,215	18,638	24,695 (4 th Quarter Combined)		

¹ Instantaneous.

² Continuous.

³ Calculated.

⁴ Vacuum pump down for repairs, causing a decrease in values.

Notes: in. Hg = inches of mercury
CFM = cubic feet per minute
lbs./hr = pounds per hour

gpm = gallons per minute
lbs. = pounds

Table 3-7
System Analytical Data,
January 2001 – December 2002

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Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
Vacuum Pump #1 (South TCE Source Area)	1/6/01	<25	<25	914.00	<25
	2/7/01	2.70	<1.0	371.00	<1.0
	3/6/01	<5.0	<5.0	129.00	<5.0
	4/17/01	1.60	<1.0	215.00	<1.0
	5/16/01	1.20	<1.0	120.00	<1.0
	6/7/01	1.20	<1.0	110.00	<1.0
	7/13/01	<1.0	<1.0	80.00	<1.0
	8/7/01	<1.0	<1.0	90.00	<1.0
	9/12/01	1.10	<1.0	97.00	<1.0
	10/11/01	<1.0	<1.0	76.00	<1.0
	11/9/01	1.4	<1.0	160.00	<1.0
	12/14/01	<0.5	<0.5	10.90	<0.5
	1/8/02	<0.5	<0.5	9.25	<0.5
	2/18/02	2.10	<1.0	170.00	<1.0
	3/8/02	1.40	<1.0	90.00	<1.0
	4/5/02	4.20	<1.0	360.00	<1.0
	5/13/02	2.40	<1.0	260.00	<1.0
	6/10/02	1.60	<1.0	120.00	<1.0
	7/11/02	1.10	<1.0	79.00	<1.0
	8/14/02	<1.0	<1.0	37.00	<1.0
	9/12/02	<1.0	<1.0	24.00	<1.0
	10/9/02	<1.0	<1.0	56.00	<1.0
	11/15/02	2.10	<1.0	120.00	<1.0
	12/23/02	2.50	<1.0	190.00	<1.0
Vacuum Pump #2 (South TCE Source Area)	1/6/01	<25	<25	963.00	<25
	2/7/01	<12.5	<12.5	425.00	<12.5
	3/6/01	<5.0	<5.0	140.00	<5.0
	4/17/01	2.30	<1.0	247.00	<1.0
	5/16/01	1.20	<1.0	110.00	<1.0
	6/7/01	NS	NS	NS	NS
	7/13/01	<1.0	<1.0	78.00	<1.0
	8/7/01	<1.0	<1.0	89.00	<1.0
	9/12/01	1.2	<1.0	110.00	<1.0
	10/11/01	<1.0	<1.0	76.00	<1.0
	11/9/01	1.30	<1.0	170.00	<1.0
	12/14/01	<0.5	<0.5	7.75	<0.5
	1/8/02	<0.5	<0.5	8.61	<0.5
	2/18/02	2.10	<1.0	190.00	<1.0
	3/8/02	1.40	<1.0	86.00	<1.0
	4/5/02	3.90	<1.0	380.00	<1.0
See notes at end of table.					

Table 3-7 (Continued)
System Analytical Data,
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Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
	5/13/02	2.50	<1.0	250.00	<1.0
	6/10/02	1.40	<1.0	120.00	<1.0
	7/11/02	1.00	<1.0	86.00	<1.0
	8/14/02	<1.0	<1.0	35.00	<1.0
	9/12/02	<1.0	<1.0	24.00	<1.0
	10/9/02	<1.0	<1.0	33.00	<1.0
	11/15/02	<1.0	<1.0	28.00	<1.0
	12/23/02	2.50	<1.0	200.00	<1.0
Vacuum Pump #3 (North TCE Source Area)	1/6/01	<1.0	<1.0	41.00	<1.0
	2/7/01	1.40	<1.0	38.00	<1.0
	3/6/01	<1.0	<1.0	35.00	<1.0
	4/17/01	1.10	<1.0	42.00	<1.0
	5/16/01	2.20	<1.0	95.00	<1.0
	6/7/01	<1.0	<1.0	26.00	<1.0
	7/13/01	<1.0	<1.0	31.00	<1.0
	8/7/01	<1.0	<1.0	28.00	<1.0
	9/12/01	<1.0	<1.0	21.00	<1.0
	10/11/01	<1.0	<1.0	28.00	<1.0
	11/9/01	<1.0	<1.0	22.00	<1.0
	12/14/01	<0.5	<0.5	1.73	<0.5
	1/8/02	<0.5	<0.5	2.81	<0.5
	2/18/02	1.50	<1.0	35.00	<1.0
	3/8/02	<1.0	<1.0	52.00	<1.0
	4/5/02	1.80	<1.0	42.00	<1.0
	5/13/02	1.80	<1.0	48.00	<1.0
	6/10/02	1.50	<1.0	38.00	<1.0
	7/11/02	NS	NS	NS	NS
	8/14/02	NS	NS	NS	NS
	9/12/02	<1.0	<1.0	9.60	<1.0
	10/9/02	<1.0	<1.0	14.00	<1.0
	11/15/02	<1.0	<1.0	11.00	<1.0
	12/23/02	1.60	<1.0	29.00	<1.0
Air Stripper Effluent	1/6/01	1.20	<1.0	32.00	<1.0
	2/7/01	1.20	<1.0	17.00	<1.0
	3/6/01	2.10	<1.0	25.00	<1.0
	4/17/01	4.00	<1.0	40.00	<1.0
	5/16/01	4.90	<1.0	26.00	<1.0
	6/7/01	4.50	<1.0	17.00	<1.0
	7/13/01	4.90	<1.0	17.00	<1.0
	8/7/01	3.90	<1.0	14.00	<1.0

See notes at end of table.

Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2002

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Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Groundwater Analytical Results² (µg/L)					
	9/12/01	3.20	<1.0	11.00	<1.0
	10/11/01	5.00	<1.0	18.00	<1.0
	11/9/01	3.90	<1.0	15.00	<1.0
	12/14/01	<0.5	<0.5	0.74	<0.5
	1/8/02	0.76	<0.5	2.60	<0.5
	2/18/02	5.3	<1.0	30.00	<1.0
	3/8/02	3.7	<1.0	14.00	<1.0
	4/5/02	4.6	<1.0	24	<1.0
	5/13/02	3.5	<1.0	20	<1.0
	6/10/02	2.5	<1.0	14	<1.0
	7/11/02	2.1	<1.0	12	<1.0
	8/14/02	3.3	<1.0	11	<1.0
	9/12/02	1.9	<1.0	9.6	<1.0
	10/9/02	1.9	<1.0	12	<1.0
	11/15/02	2.1	<1.0	12	<1.0
	12/23/02	3.0	<1.0	18	<1.0
Air Stripper Influent	1/6/01	210	<130.00	5,000.00	<25.00
	2/7/01	300.00	12.00	4,100.00	1.10
	3/6/01	340.00	<130.00	4,000.00	<25.00
	4/17/01	390.00	12.00	3,500.00	<1.00
	5/16/01	660.00	16.00	3,200.00	<1.0
	6/7/01	750.00	15.00	3,000.00	1.50
	7/13/01	790.00	16.00	2,400.00	1.40
	8/7/01	1,100.00	16.00	3,200.00	<1.0
	9/12/01	660.00	10.00	2,000.00	3.00
	10/11/01	570.00	14.00	2,000.00	1.90
	11/9/01	640.00	12.00	2,300.00	2.20
	12/14/01	696.00	18.40	1,580.00	<2.0
	1/8/02	577.00	8.90	2,040.00	2.30
	2/18/02	427.00	<20	1,910.00	<20
	3/8/02	521.00	11.00	2,150.00	3.20
	4/5/02	432.00	6.70	2,060.00	2.20
	5/13/02	430.00	9.44	1,600.00	3.73
	6/10/02	318.00	6.73	1,650.00	1.60
	7/11/02	316.00	7.61	1,810.00	2.89
	8/14/02	589.00	14.20	1,820.00	<0.5
	9/12/02	472.00	8.19	1,490.00	4.19
	10/9/02	298.00	6.74	1,820.00	2.44
	11/15/02	73.00	6.20	437.00	<1.0
	12/23/02	374.00	7.80	2,180.00	<1.0
See notes at end of table.					

Table 3-7 (Continued)
System Analytical Data,
January 2001 – December 2002

Quarterly Progress Report
Fourth Quarter 2002 and 2-Year Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

¹ Vapor Analysis is by EPA Method TO-14 Modified.

² Groundwater Analysis is by EPA Method 8260.

Notes: $\mu\text{g/L}$ = micrograms per liter

DCE = dichloroethylene

EPA = Environmental Protection Agency (United States)

mg/m^3 = milligrams per cubic meter

NS = Vacuum Pump #2 was not sampled because it was shut down due to mechanical problems.

TCE = trichloroethylene

the total quarterly mass of VOCs extracted by the treatment system continued to decrease during the fourth quarter of operation in 2002. The mass of VOCs extracted is expected to continue decreasing as contaminants within the subsurface are removed. It is evident by review of Figure 7, Appendix A, that the system mass removal rate is nearing an asymptotic level.

3.8 SYSTEM TWO YEAR EVALUATION

It is apparent by an evaluation of TCE concentrations detected in the on-site monitoring wells that the System has been successful in removing contaminants from the subsurface. As shown by the Concentration Trend Graphs in Appendix F, the TCE concentrations have declined in every well. Additionally, concentrations have not reached maximum levels reported in the pre-baseline events.

As discussed above, the System has operated successfully since January 2001 maintaining a 96 percent operational rate during the two year period. Since that time 27.4 million gallons of groundwater have been extracted and treated. A total of 2,694 pounds of TCE have been removed from both the groundwater and subsurface soils via groundwater and soil vapor extraction. The performance of the System has been measured by tracking the change in TCE concentrations within on-site monitor wells, which was discussed in detail in Sections 3.1 through 3.4, within the System groundwater influent and the System vapor effluent.

Contaminant mass removal is calculated from vapor results collected from four effluent locations. The first two locations include the vapor effluent ports for Vacuum Pumps #1 and #2, which measure the amount of soil vapor as well as contaminants stripped from groundwater during the turbulent extraction process associated with the South TCE Source Area. The third location includes the vapor effluent port for Vacuum Pump #3, which measures the amount of soil vapor as well as contaminants stripped from groundwater during the turbulent extraction process associated with the North TCE Source Area. The fourth and final location includes the vapor effluent port from the low profile air stripper. The air stripper removes contaminants from groundwater extracted by the three vacuum pumps and by the two bedrock extraction wells.

The cumulative mass of contaminants removed is approaching an asymptotic level as is evident by Figure 7. Over the second, third and fourth quarter of 2002 the graph depicts a leveling out of contaminant concentrations indicating a decline in contaminants available for removal. This decline is also observed in Figure 8, which depicts the vapor concentrations from the three vacuum pumps over the two year operational period. Overall, the concentrations have declined by 79 percent for the South TCE Source Area and 30 percent in the North TCE Source Area. The spikes observed are likely associated with the creation of preferential pathways allowing contaminant vapors to mobilize to the extraction wells. During

December 2002, the measured TCE levels in System performance samples rose, likely due to parts of the System being shut down for maintenance for several weeks. This increase is considered a rebound effect where contaminant levels may increase during periods of System shut down.

The groundwater TCE influent concentrations have been tracked over the two year System operation period and presented in Figure 9. As can be seen the concentrations have decreased overall by 56 percent. There are several spikes observed which are associated with System operational shutdowns. Although these concentrations did rebound as expected, they did not recover to the levels measured at startup in January 2001.

Coupling the System performance data with the groundwater monitoring results discussed in previous sections it is evident that the System has been successful in removing a significant mass of contaminants from the site subsurface. The TCE concentrations have continued to decline significantly in both the on-site monitor wells and system influent.

The following overall conclusion has been reached with respect to remedial system performance:

As is typical of VOC extraction systems, the rate of VOC mass removal (see Figures 7, 8, and 9) was greatest when the Systems were first started up, with only 9,441 gallons of water having to be pumped to remove 1 pound of VOC during the first quarter of operation, as shown on Table 3-6. In contrast, during the fourth quarter of 2002, just under 25,000 gallons of water had to be pumped to extract 1 pound of VOCs. Similarly, looking at the TCE removal through both vapor and groundwater, the system mass removal rate was 0.17 pounds VOC per hour during the first quarter of 2001, but had dropped to 0.05 pounds per hour by the fourth quarter of 2002. Clearly the system has reached asymptotic removal rates for continuous operations.

4.0 ANALYTICAL PROGRAM

Overall data quality is assessed by grouping particular data evaluation findings and reviewing them in terms of precision, accuracy, representativeness, completeness, and comparability (PARCC) criteria. Data generated during this monitoring period were evaluated for PARCC criteria after receipt of all analytical data.

4.1 PRECISION

Precision is a quantitative evaluation of the repeatability of a measurement. Precision of analytical measurements is determined by calculating the relative percent difference (RPD) between the two numerical values. For precision, the matrix spike (MS) is performed in duplicate, and the values from both analyses are evaluated. Comparison of results from duplicate field samples may also be indicative of overall precision of a data set. However, field duplicates may be influenced by sampling precision and are not as controlled as laboratory duplicates.

For quality control purposes, a MS and matrix spike duplicate (MSD) was taken for each set of 20 samples with a net result of 2 MS/MSD analyses for the December 2002 sampling event. The evaluation of MS/MSD criteria was used to qualify the data. The evaluations of MS/MSD analyses are presented in the following tables.

BR-06

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0505	101	0.0510	6.97	78-132	15
Chlorobenzene	0.0522	104	0.0522	5.30	79-124	16
1,1-Dichloroethylene	0.0508	102	0.0508	5.62	68-141	19
Toluene	0.0492	98	0.0492	6.24	77-134	16
Trichloroethene	0.0528	106	0.0528	8.29	73-137	20
Tetrachloroethene	0.0517	103	0.0517	7.78	72-136	23

Note: mg/L = milligrams per liter

OB-07

Analyte	MS Value (mg/L)	Recovery (%)	MSD Value (mg/L)	RPD	Control Limits (%)	RPD Limit
Benzene	0.0481	96	0.0486	1.03	78 – 132	15
Chlorobenzene	0.0545	109	0.0548	0.55	79 – 124	16
1,1-Dichloroethene	0.0511	102	0.0521	1.94	68 – 141	19
Toluene	0.0534	107	0.0546	2.22	77 – 134	16
Trichloroethene	0.0572	94	0.0576	0.70	73 – 137	20
Tetrachloroethene	0.0536	107	0.0554	3.30	72 – 136	23

These evaluations demonstrate that MS/MSD analyses are within acceptable limits.

Field duplicate sampling followed the same sampling outline as MS/MSD analysis. One duplicate sample was collected for each set of 20 field samples, resulting in 2 duplicate samples for the December 2002 sampling event. Field duplicate precision is presented in the following tables.

Sample ID	Analyte	Practical Quantitation Limit	Sample Result ($\mu\text{g/L}$)	Flag	Duplicate Result ($\mu\text{g/L}$)	Flag	RPD
BR-07	Benzene	2	5.9		10.5		0.56
	cis-1,2-Dichloroethene	2	17.6		17.8		0.01
	trans-1,2-Dichloroethene	2	10.1		10.4		0.03
	Trichloroethene	2	ND		ND		-
	Vinyl chloride	2	64.6		65.9		0.02
W-5	cis-1,2-Dichloroethene	2	52		51.7		0.01
	trans-1,2-Dichloroethene	2	3.6		4.0		0.11
	Trichloroethene	2	777		843		0.08

ND = not detected

The RPD for all analytes indicates that field duplicate precision as shown in this table is considered acceptable.

4.2 ACCURACY

Accuracy is a quantitative measurement of agreement between an analytical result and the true value. Accuracy is determined by comparing known amounts of analytes, which are added to the sample prior to analysis, to the field analytical results. Accuracy is expressed as a percentage of recovery (%R) of the total amount of spiked analyte. For VOC analyses, each sample was spiked with surrogate compounds prior to analysis (and extraction), and chosen samples were spiked (in duplicate) with additional spikes (MS and MSD). Surrogate and MS/MSD recoveries evaluate accuracy and identify interferences from the sample matrix.

Surrogate recoveries were acceptable for VOC analyses for this sampling event.

4.3 REPRESENTATIVENESS

Representativeness is a qualitative measurement of the degree to which analytical results reflect the true concentrations of analytes that may (or not) be present in a sample. Representativeness of organic analytical results of true site conditions is evaluated using trip blanks, field blanks, method blanks, and

rinsate from decontaminated sampling equipment. Target organic compounds in quality control (QC) samples may represent contamination during sampling or transportation of samples to the laboratory. Compliance with holding time and extraction criteria also assures representativeness of results.

Two field blanks for the December 2002 event were analyzed to characterize the water source used during these sampling events. Potable water was used by the field crews for field blanks. No target VOCs were detected above the reporting limit in either field blank.

No target VOCs were detected above the reporting limit in any method blank.

Two trip blanks were analyzed as part of the VOC laboratory QC program. No target VOCs were detected above the reporting limit in either trip blank.

Equipment rinse samples were collected per every 20 production samples, using potable water to rinse field equipment, and analyzed for all target constituents. Two rinsate blanks were collected during the December 2002 event. No target VOCs were detected above the reporting limit in either rinsate blank.

Representativeness is considered complete due to the lack of target VOC detections in QC efforts.

4.4 COMPLETENESS

Completeness is a quantitative measurement of the usability of a data set. Completeness is defined as the percentage of data that satisfy validation criteria. Rejected data are not usable. Data qualified as estimated, however, is usable. Completeness goals were 100 percent for this report and are considered to be met.

4.5 COMPARABILITY

Comparability is a qualitative assessment of the confidence with which different data sets may be used to characterize a site. Comparability is a necessary criteria because sampling is often performed at different times and precision, accuracy, and representativeness are unique to each sampling event. Comparability between data generated at different times at a single site is evaluated by reviewing sample collection and handling procedures, sample matrix, and analytical methods used. Standardization of sampling protocols and analytical methods assures comparability as long as precision and accuracy criteria are satisfied for each data set. The overall analytical performance for this report was evaluated, and should be comparable to previous and future data sets.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A comparison of analytical data from the eight quarterly sampling events that occurred in 2001 provides an evaluation of the System performance. The following overall conclusions have been reached in this 2-year evaluation:

- Decreases in TCE concentrations have been observed in all perimeter and site interior monitor wells. A decrease in the System influent TCE concentrations has also been observed, which would be expected since contaminant levels have declined in the North and South TCE Source Areas where extraction is occurring.
- The System has successfully removed 2,694 pounds of TCE from subsurface media.
- It is apparent that the System has reached an asymptotic level of operation as can be seen in Figure 7 and in the mass removal rate reported in Table 3-6. The cumulative mass removed has clearly leveled out over the last three quarters.
- Natural biodegradation is occurring at the site as indicated by the values measured for various natural biodegradation parameters and the presence of TCE daughter products.

The performance of the System and status of the site will continue to be tracked and reported through future quarterly sampling events. However, MACTEC Inc. recommends the following changes to the groundwater sampling program for the 2003 sampling events:

- Remove monitor wells W-4, TW-13, and BR-16 from the quarterly monitoring program. Over the past two year these wells have never shown levels of contamination above current TAGM levels.
- Collect samples from background monitor wells W-2 and BR-06 annually rather than quarterly. The annual sampling will occur in December.
- Collect bioparameter samples for the natural attenuation evaluation on a semi-annual schedule beginning in March 2003.

6.0 REFERENCES

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- Harding ESE. 2001. *Dual-Phase Vacuum Extraction Remediation System Operation and Maintenance Manual*, prepared for the former Taylor Instruments Site, 95 Ames Street in Rochester, New York (March).
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- MACTEC Engineering and Consulting, Inc. 2002. *Quarterly Progress Report, First Quarter 2002, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (April).
- MACTEC Engineering and Consulting, Inc. 2002. *Quarterly Progress Report, Second Quarter 2002, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (July).
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- NYSDEC. 1997. Voluntary Cleanup Agreement regarding the Taylor Instruments Site, Number B8-0508-97-02 (November).

APPENDIX A

FIGURES



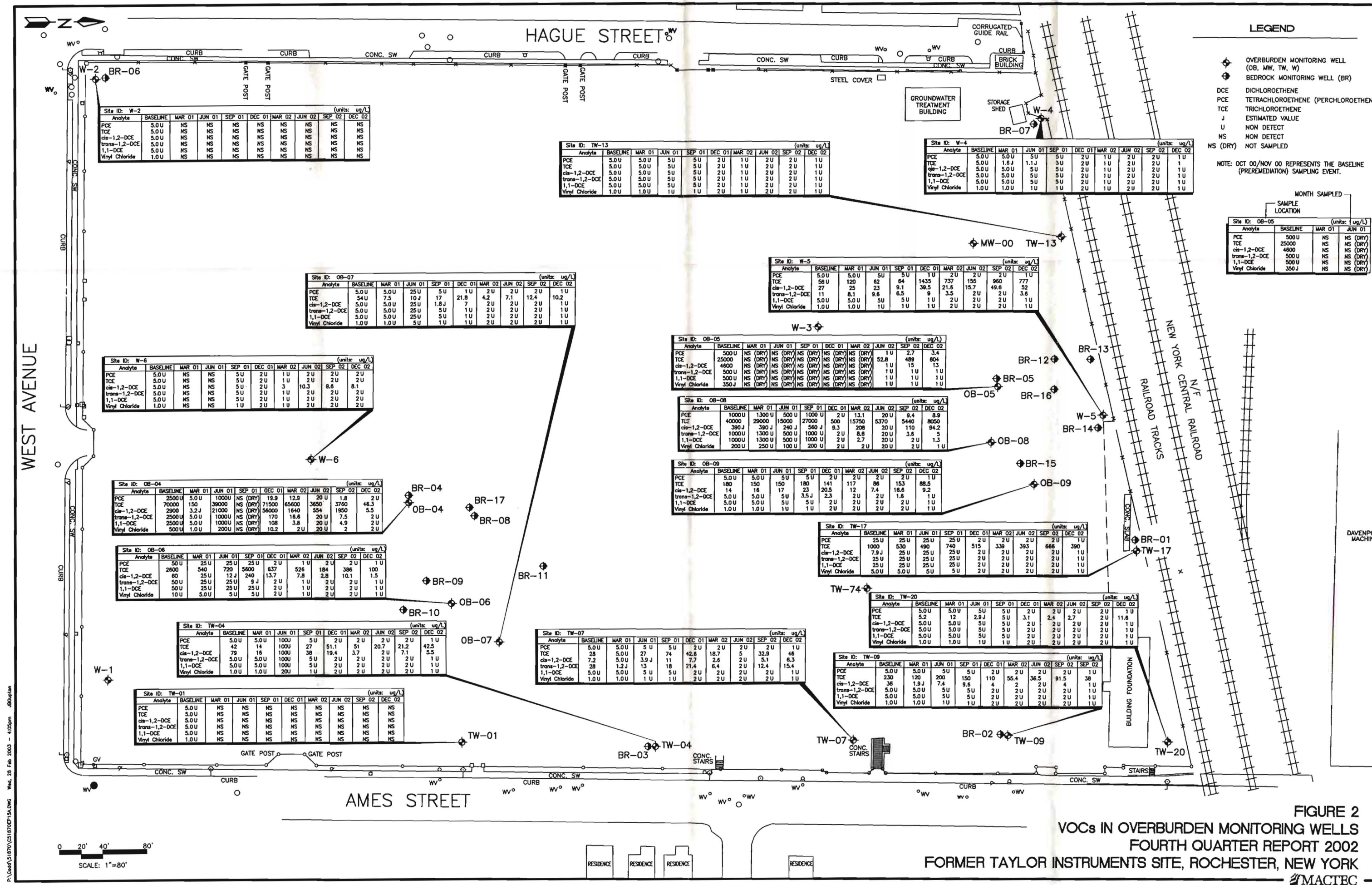
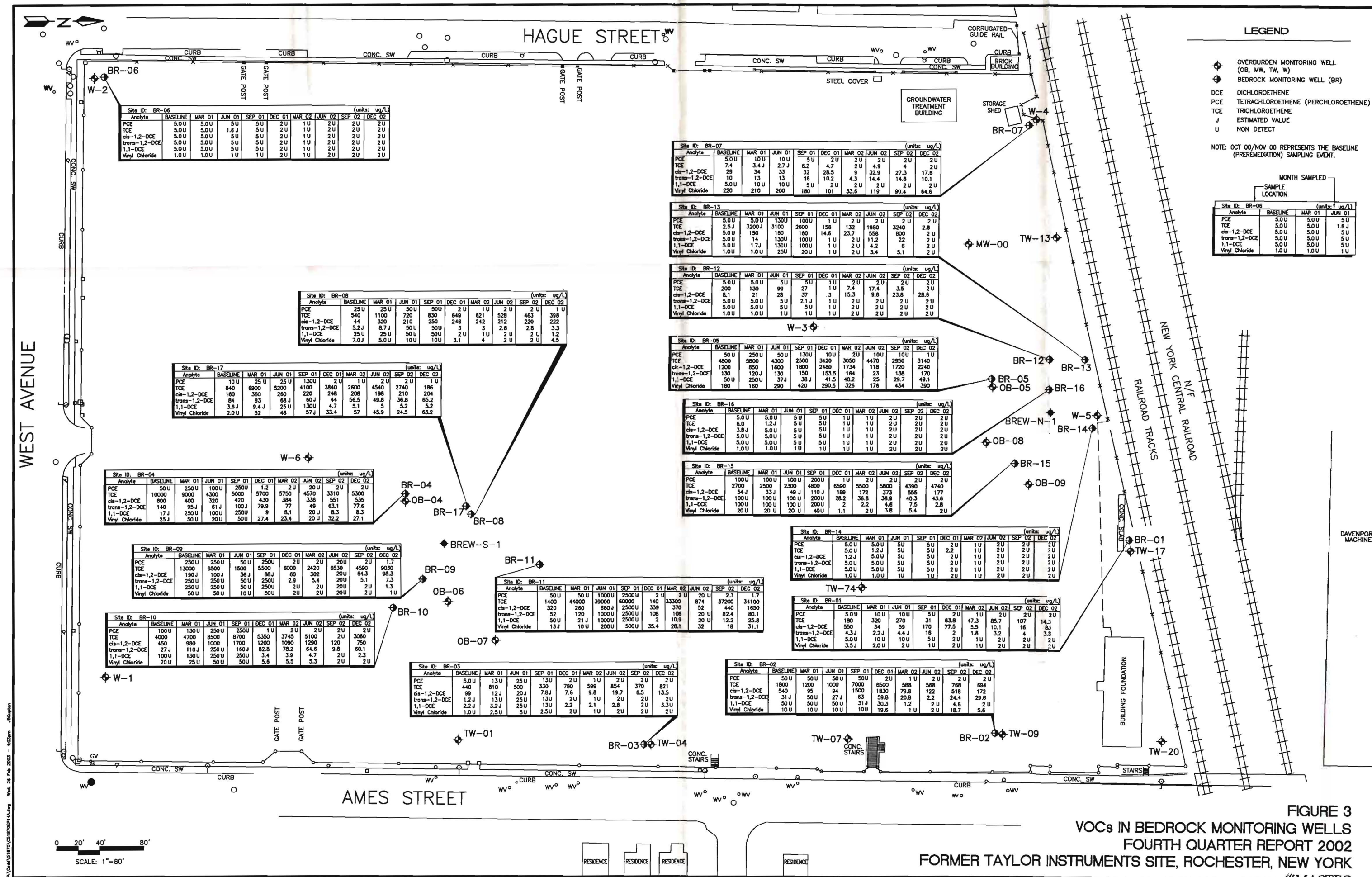
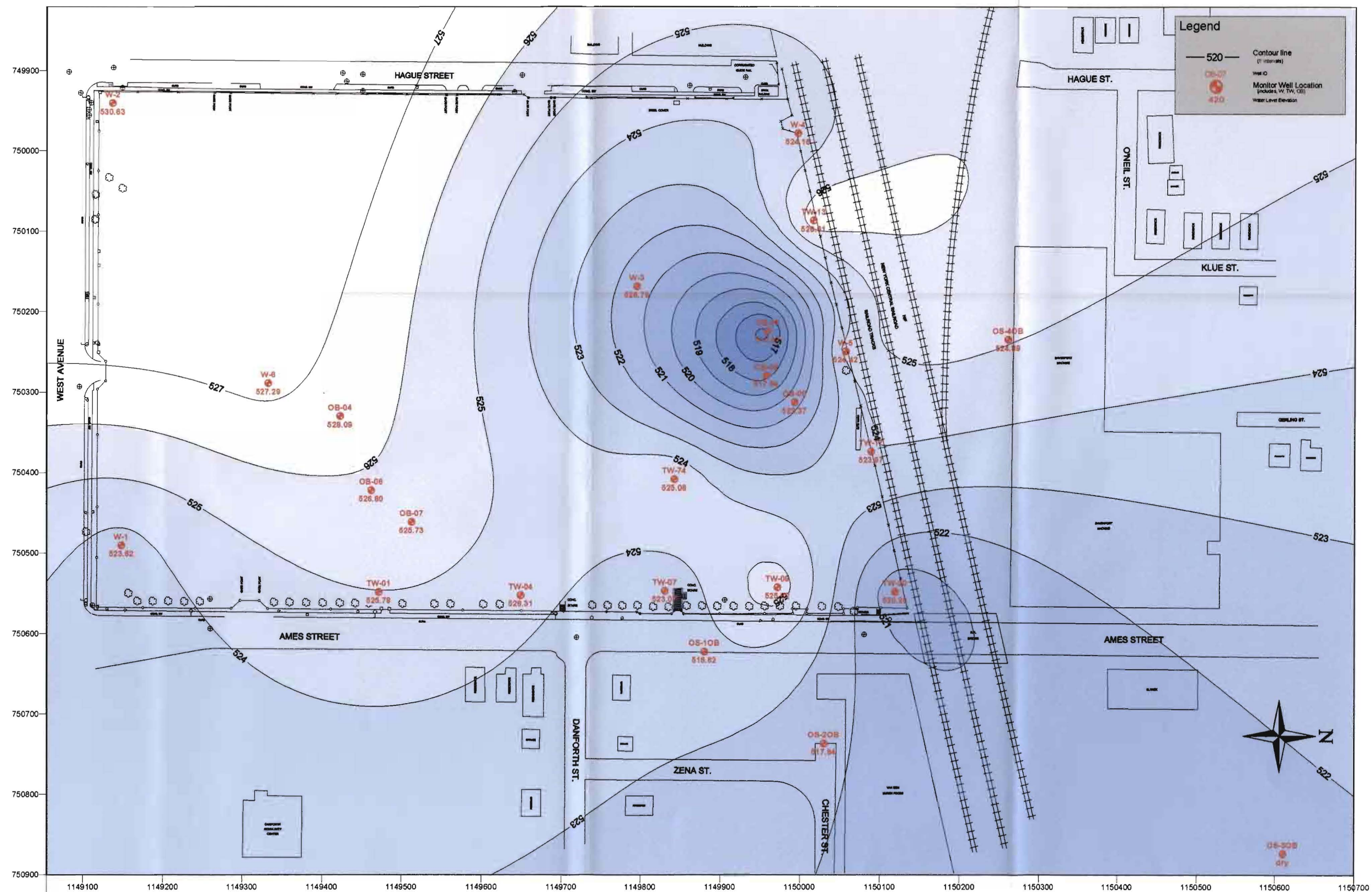


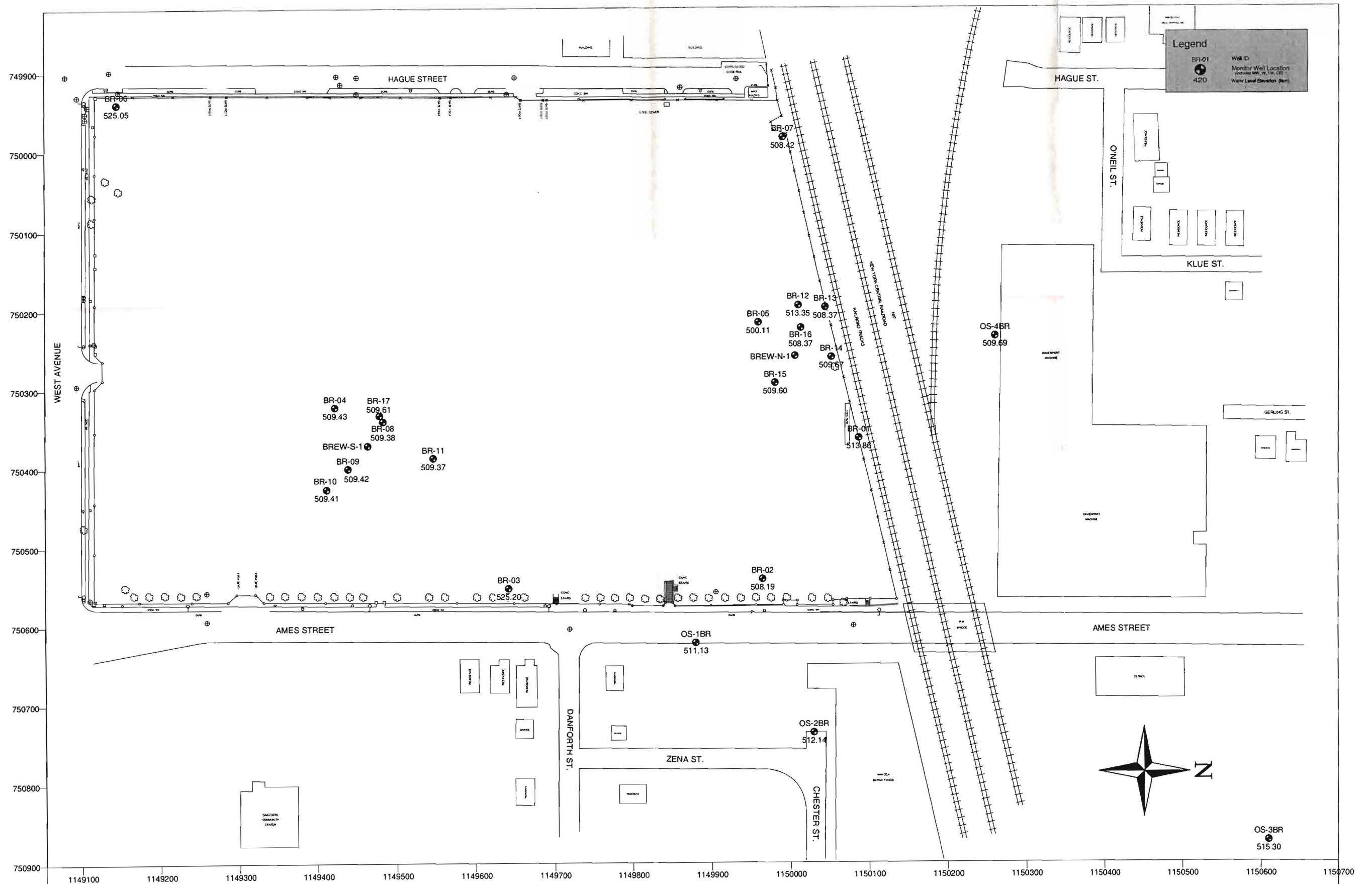
FIGURE 2
VOCs IN OVERBURDEN MONITORING WELLS
FOURTH QUARTER REPORT 2002
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
MACTEC





Note: Data for Monitor Wells OS-10B, OS-20B, OS-30B, and OS-40B were provided by Haley and Aldrich of New York. Data collected on December 3, 2002

FIGURE 4
OVERBURDEN POTENTIOMETRIC SURFACE MAP
QUARTERLY REPORT (DECEMBER 2002)
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK



Note: Data for Monitor Wells OS-1BR, OS-2BR, OS-3BR, and OS-4BR was provided by Haley and Aldrich of New York. Data collected on December 3, 2002

FIGURE 5
BEDROCK GROUNDWATER ELEVATIONS
QUARTERLY REPORT (DECEMBER 2002)
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK

Figure 6
Average Groundwater Flowrates

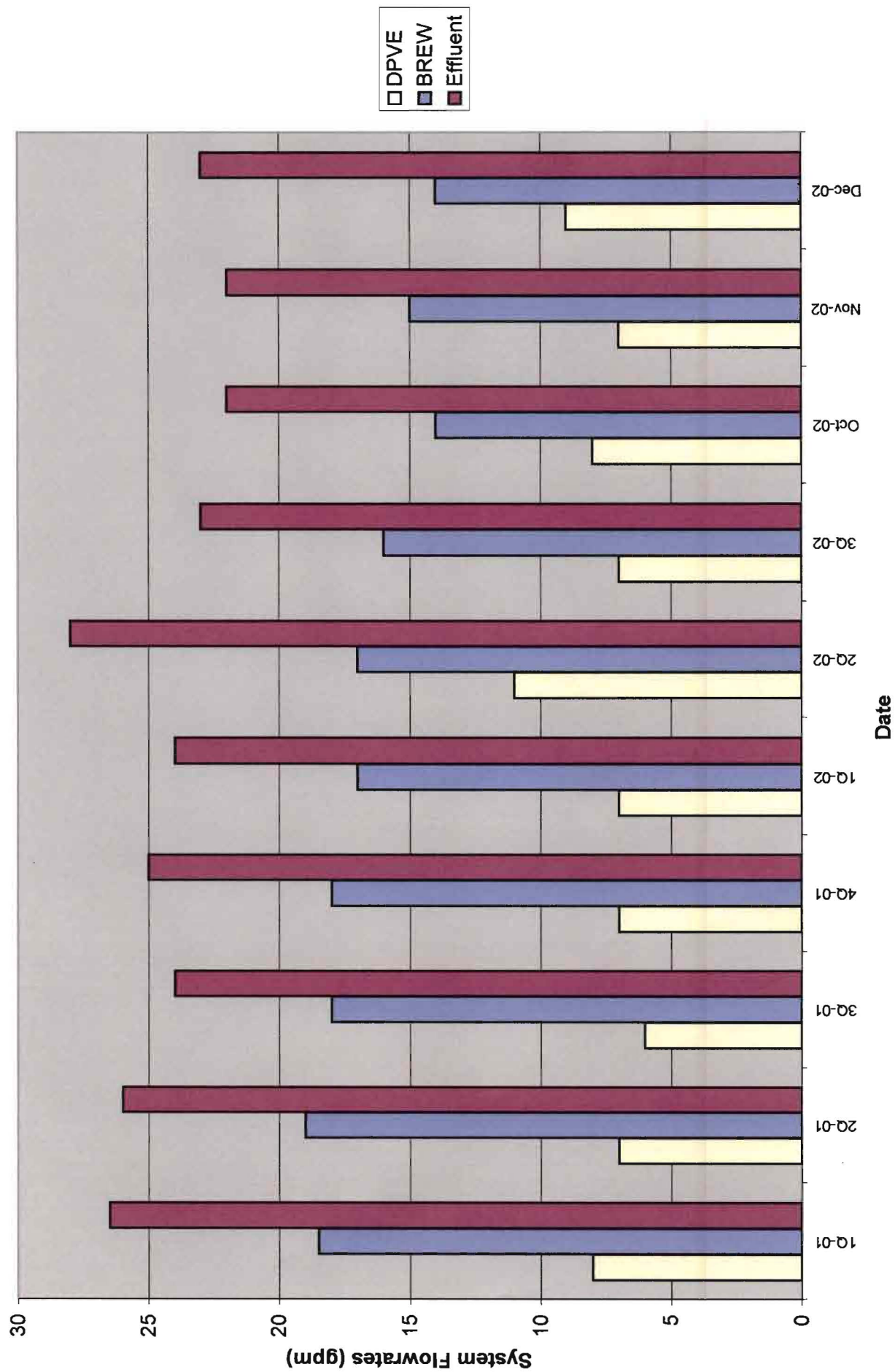


Figure 7
TCE Mass Removed

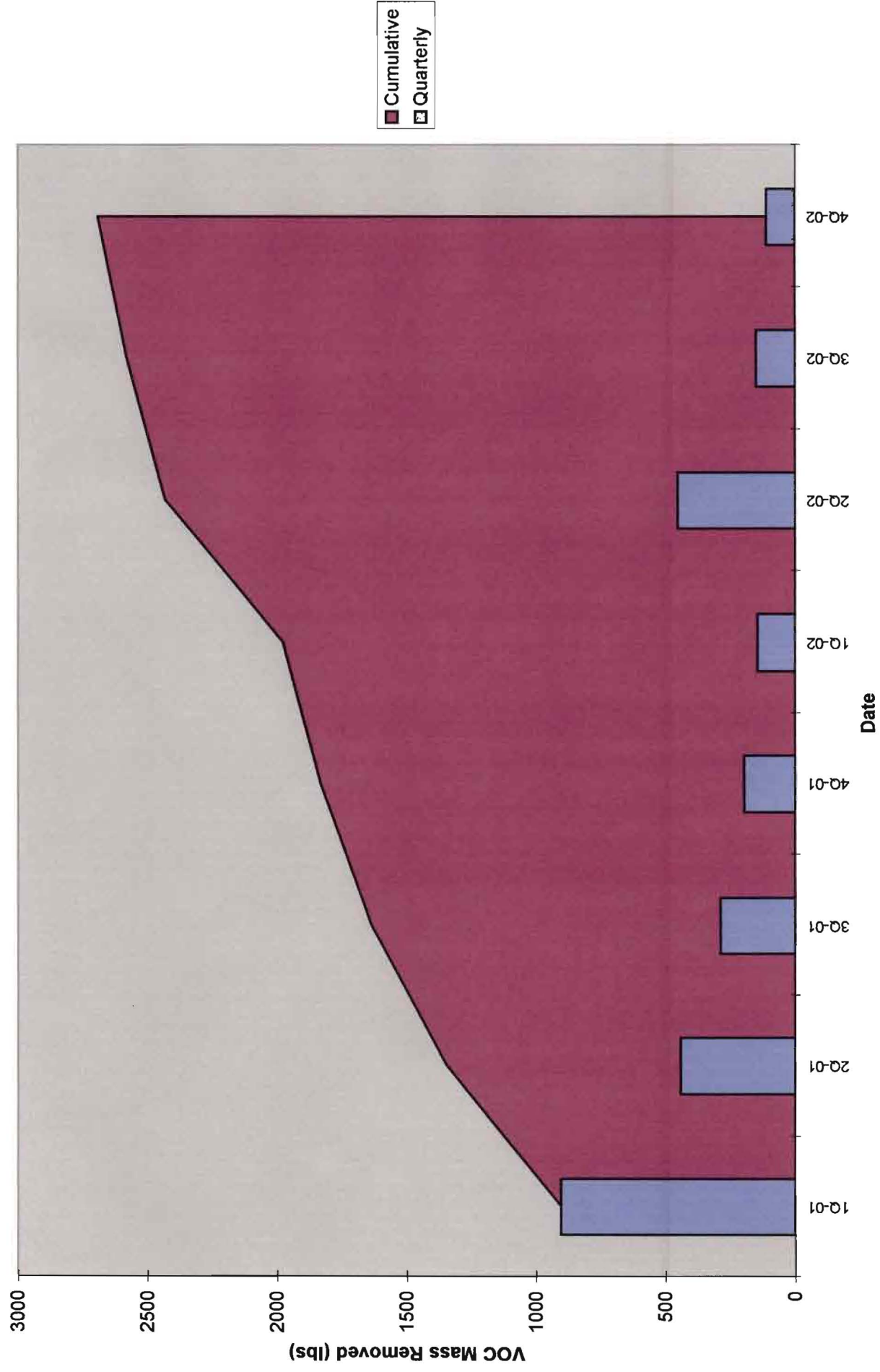


Figure 8
System TCE Effluent Vapor Results

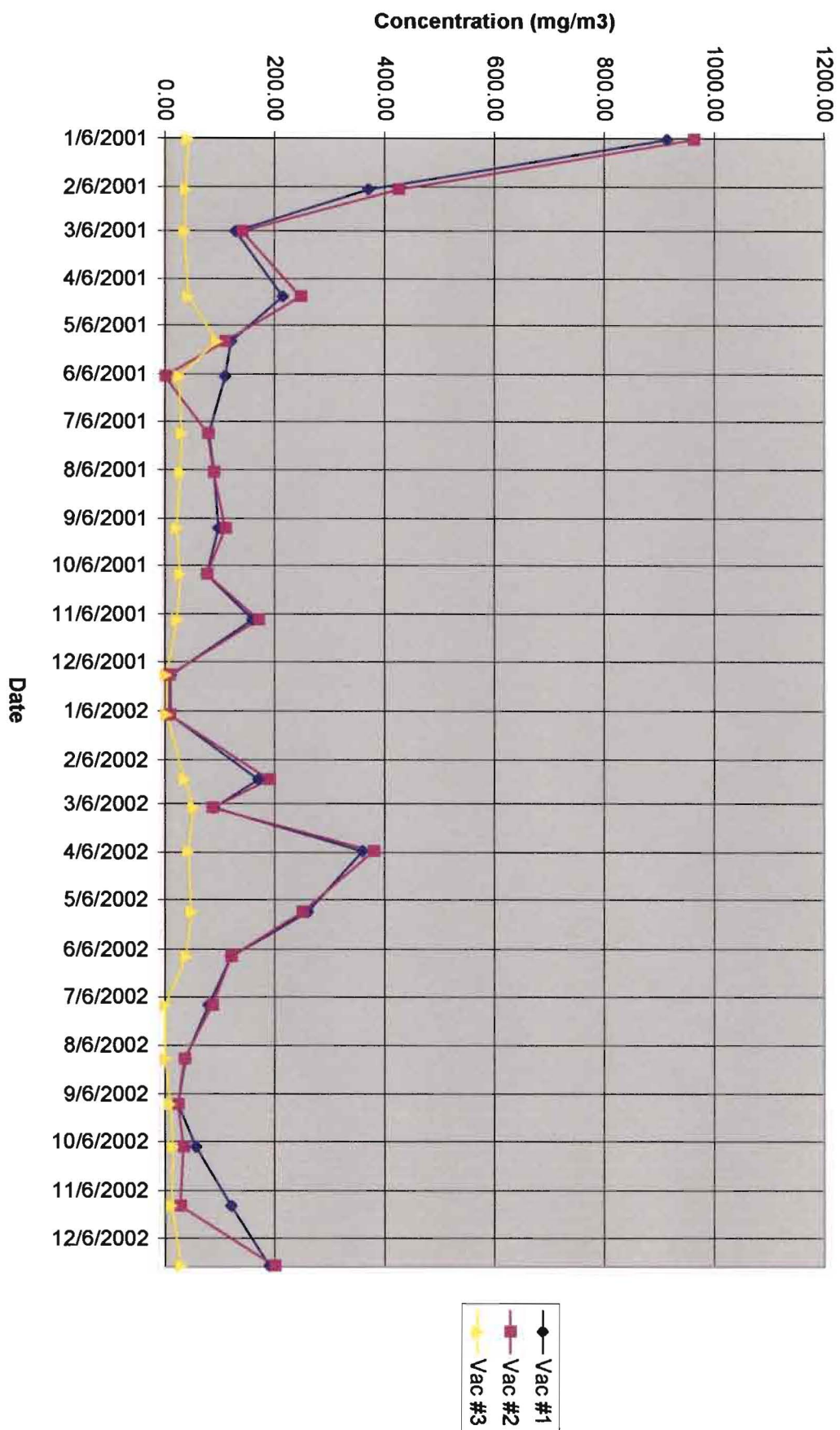
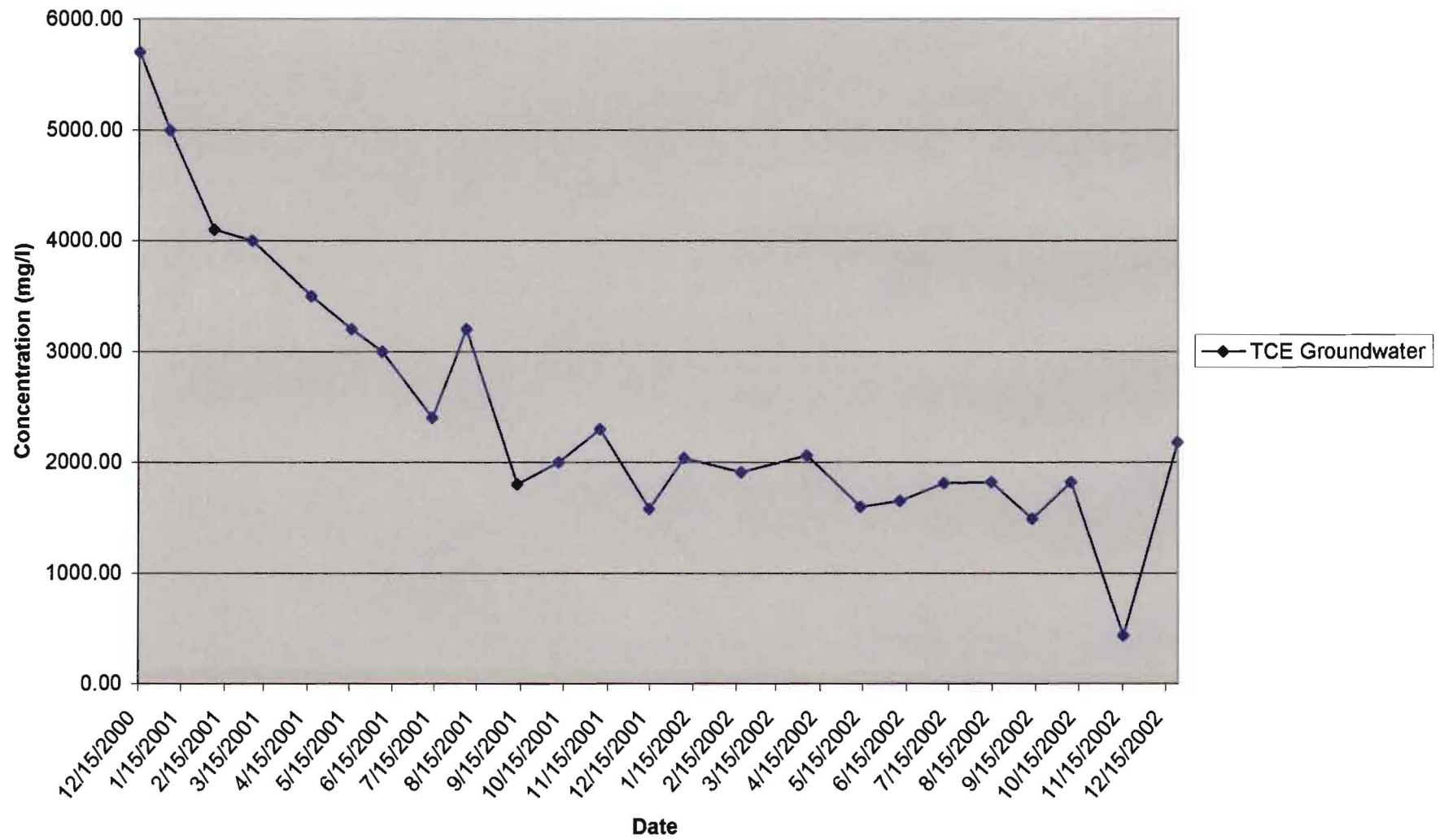


Figure 9
System TCE Influent Groundwater Results



APPENDIX B

LABORATORY REPORTS

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‘

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December 4, 2002
Analytical Data



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

311785

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1022 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Pevler

Sampler Signature: Janna Pevler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Pevler

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

TAT ☒ Standard ☐ Rush (surcharges may apply) Date Needed: _____ Fax Results: Y ☒ N	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers								Analyze For:										REMARKS				
						SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC (8260)	Chloride (325.1)	alkalinity (310.1)	Carbon Dioxide (44008)	Nitrate (353.2)	Sulfate (375.4)	Sulfide (376.1)	methane/ethane/ ethene (8015M)	TOC (415.1)	Fe (11) 600Fe						
	QATB01	12/3/02	12:00	G		GW		1													trip blank								
	QAFB01	12/3/02	17:25	G		GW		3													field blank								
	QARB01	12/3/02	17:35	G		GW		3													rinse blank								
	W-2	12/4/02	8:45	G		GW						4																	
	TW-04	12/4/02	10:00	G		GW		9	1			6	3	1	1	2	1	1	1	3	2	1							
	TW-17	12/4/02	14:51	G		GW		9	1			6	3	1	1	2	1	1	1	3	2	1							
	TW-20	12/4/02	14:05	G		GW		9	1			6	3	1	1	2	1	1	1	3	2	1							
	TW-07	12/4/02	15:52	G		GW		9	1			6	3	1	1	2	1	1	1	3	2	1							
Special Instructions:																							LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N N/A Bottles Supplied by Test America: * Fax COC to Method of Shipment: Knoxville Office						
Relinquished By: <u>Janna Pevler</u>	Date: <u>12/4/02</u>	Time: <u>17:00</u>	Received By:		Date:	Time:	Received By:		Date:	Time:	Received By:		Date:	Time:	Received By:		Date: <u>12/5</u>	Time: <u>9:00</u>											

Fax # (865) 693-4

TestAmerica

INCORPORATED

12/10/02

MACTEC ENGINEERING AND CONSULT 4997
RICK RYAN/JANNA PEEVLER
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 311785.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
QATB01	02-A198865	12/ 3/02
QAFB01	02-A198866	12/ 3/02
QARB01	02-A198867	12/ 3/02
W-2	02-A198868	12/ 4/02
TW-04	02-A198869	12/ 4/02
TW-17	02-A198870	12/ 4/02
TW-20	02-A198871	12/ 4/02
TW-07	02-A198872	12/ 4/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L. Connor

Report Date: 12/10/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198865
 Sample ID: QATB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 3/02
 Time Collected: 0:00
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	2:00	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	2:00	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	2:00	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	2:00	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198865

Sample ID: QATB01

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:00	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	2:00	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	2:00	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	2:00	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	2:00	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Trichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:00	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	2:00	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198865

Sample ID: QATB01

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:00	C. Spry	8260B	497

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	104.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	98.	80. - 128.
VOA Surr, DBFM	99.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198866
 Sample ID: QAFB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 3/02
 Time Collected: 17:25
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	2:25	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	2:25	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	2:25	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	2:25	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198866

Sample ID: QAFB01

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:25	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	2:25	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	2:25	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	2:25	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	2:25	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Trichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:25	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	2:25	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198866
 Sample ID: QAFB01
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:25	C. Spry	8260B	497

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	99.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198867
 Sample ID: QARB01
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 3/02
 Time Collected: 17:35
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	2:51	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	2:51	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	2:51	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	2:51	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198867
Sample ID: QARB01
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:51	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	2:51	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	2:51	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	2:51	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	2:51	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Trichloroethene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	2:51	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	2:51	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198867

Sample ID: QARB01

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	2:51	C. Spry	8260B	497

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198868
 Sample ID: W-2
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 4/02
 Time Collected: 8:48
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS									
Carbon Dioxide	ND	mg/l	3.0	1	12/ 6/02	3:09	T. Beverly	SM4500CO2C	7990
MISCELLANEOUS CHEMISTRY									
Alkalinity as CaCO3	219.	mg/l	5.00	1	12/ 5/02	10:21	G. Baun	310.1	7992
Chloride	15.0	mg/l	1.00	1	12/ 9/02	22:39	A.Bamarni	325.2	9697

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198869
 Sample ID: TW-04
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 4/02
 Time Collected: 10:00
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	3:16	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	3:16	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	3:16	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	3:16	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198869
Sample ID: TW-04
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
cis-1,2-Dichloroethene	0.00550	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	3:16	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	3:16	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	3:16	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	3:16	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	3:16	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Trichloroethene	0.0425	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	3:16	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	3:16	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198869

Sample ID: TW-04

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	3:16	C. Spry	8260B	497
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	10:10	K. Burritt	RSK175M	320
Carbon Dioxide	ND	mg/l	3.0	1	12/ 6/02	3:09	T. Beverly	SM4500CO2C	7990
Ethene	ND	mg/L	0.026	1	12/10/02	10:10	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	10:10	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.330	mg/l	0.100	1	12/ 5/02	19:47	S. Duncan	3500D	7985
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	0.300	mg/l	0.100	1	12/ 5/02	18:43	A.Bamarni	353.2	7978
Sulfate	251.	mg/l	10.0	10	12/ 6/02	10:30	M.Shockley	375.4	9132
Alkalinity as CaCO3	223.	mg/l	5.00	1	12/ 5/02	10:21	G. Baun	310.1	7992
Total Organic Carbon	1.88	mg/l	1.00	1	12/ 9/02	18:54	L.Franklin	415.1	9994
Sulfide	ND	mg/l	1.000	1	12/ 6/02	18:30	A.Bamarni	376.1	8434
Chloride	10.7	mg/l	1.00	1	12/ 9/02	22:41	A.Bamarni	325.2	9697

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	102.	69. - 132.
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	101.	80. - 128.
VOA Surr, DBPM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198869
Sample ID: TW-04
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
M = Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198870
 Sample ID: TW-17
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 4/02
 Time Collected: 11:31
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	3:41	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	3:41	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	3:41	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	3:41	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198870

Sample ID: TW-17

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	3:41	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	3:41	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	3:41	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	3:41	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	3:41	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Trichloroethene	0.390	mg/l	0.0100	10	12/ 6/02	11:44	C. Spry	8260B	689
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	3:41	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	3:41	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198870

Sample ID: TW-17

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	3:41	C. Spry	8260B	497
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	10:19	K. Burritt	RSK175M	320
Carbon Dioxide	41.6	mg/l	3.0	1	12/ 6/02	3:09	T. Beverly	SM4500CO2C	7990
Ethene	ND	mg/L	0.026	1	12/10/02	10:19	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	10:19	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	ND	mg/l	0.100	1	12/ 5/02	19:47	S. Duncan	3500D	7985
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	0.240	mg/l	0.100	1	12/ 5/02	18:44	A. Bamarni	353.2	7978
Sulfate	234.	mg/l	10.0	10	12/ 6/02	10:30	M. Shockley	375.4	9132
Alkalinity as CaCO3	324.	mg/l	5.00	1	12/ 5/02	10:21	G. Baun	310.1	7992
Total Organic Carbon	ND	mg/l	1.00	1	12/ 9/02	18:54	L. Franklin	415.1	9994
Sulfide	ND	mg/l	1.000	1	12/ 6/02	18:30	A. Bamarni	376.1	8434
Chloride	21.3	mg/l	1.00	1	12/ 9/02	22:42	A. Bamarni	325.2	9697

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198870
Sample ID: TW-17
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

M = Method RSK175 modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198871
 Sample ID: TW-20
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 4/02
 Time Collected: 14:05
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	11:19	C. Spry	8260B	689
Benzene	ND	mg/l	0.0010	1	12/ 6/02	11:19	C. Spry	8260B	689
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	11:19	C. Spry	8260B	689
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	11:19	C. Spry	8260B	689
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198871

Sample ID: TW-20

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	11:19	C. Spry	8260B	689
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	11:19	C. Spry	8260B	689
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	11:19	C. Spry	8260B	689
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	11:19	C. Spry	8260B	689
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	11:19	C. Spry	8260B	689
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Styrene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 9/02	17:04	C. Spry	8260B	699
Toluene	ND	mg/l	0.0010	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Trichloroethene	0.0116	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	11:19	C. Spry	8260B	689
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	11:19	C. Spry	8260B	689
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198871
 Sample ID: TW-20
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	11:19	C. Spry	8260B	689
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	10:25	K. Burritt	RSK175M	320
Carbon Dioxide	10.7	mg/l	3.0	1	12/ 6/02	3:09	T. Beverly	SM4500CO2C	7990
Ethene	ND	mg/L	0.026	1	12/10/02	10:25	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	10:25	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.185	mg/l	0.100	1	12/ 5/02	19:47	S. Duncan	3500D	7985
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	3.04	mg/l	0.100	1	12/ 5/02	18:45	A.Bamarni	353.2	7978
Sulfate	70.2	mg/l	2.00	2	12/ 6/02	10:30	M.Shockley	375.4	9132
Alkalinity as CaCO3	328.	mg/l	5.00	1	12/ 5/02	10:21	G. Baun	310.1	7992
Total Organic Carbon	ND	mg/l	1.00	1	12/ 9/02	18:54	L.Franklin	415.1	9994
Sulfide	ND	mg/l	1.000	1	12/ 6/02	18:30	A.Bamarni	376.1	8434
Chloride	14.7	mg/l	1.00	1	12/ 9/02	22:44	A.Bamarni	325.2	9697

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.
VOA Surr, DBFM	103.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198871
Sample ID: TW-20
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
M = Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD,STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A198872
 Sample ID: TW-07
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 4/02
 Time Collected: 15:52
 Date Received: 12/ 5/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 6/02	4:32	C. Spry	8260B	497
Benzene	ND	mg/l	0.0010	1	12/ 6/02	4:32	C. Spry	8260B	497
Bromobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Bromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Bromoform	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Bromomethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
2-Butanone	ND	mg/l	0.0250	1	12/ 6/02	4:32	C. Spry	8260B	497
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Carbon disulfide	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Chlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Chloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Chloroform	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Chloromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 6/02	4:32	C. Spry	8260B	497
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Dibromomethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198872
Sample ID: TW-07
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
cis-1,2-Dichloroethene	0.00630	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
trans-1,2-Dichloroethene	0.0154	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Ethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	4:32	C. Spry	8260B	497
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
2-Hexanone	ND	mg/l	0.00500	1	12/ 6/02	4:32	C. Spry	8260B	497
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 6/02	4:32	C. Spry	8260B	497
Methylene chloride	ND	mg/l	0.00250	1	12/ 6/02	4:32	C. Spry	8260B	497
Naphthalene	ND	mg/l	0.00250	1	12/ 6/02	4:32	C. Spry	8260B	497
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Styrene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Toluene	ND	mg/l	0.0010	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Trichloroethene	0.0460	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 6/02	4:32	C. Spry	8260B	497
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Vinyl chloride	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 6/02	4:32	C. Spry	8260B	497
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198872

Sample ID: TW-07

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 6/02	4:32	C. Spry	8260B	497
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	10:29	K. Burritt	RSK175M	320
Carbon Dioxide	ND	mg/l	3.0	1	12/ 6/02	3:09	T. Beverly	SM4500CO2C	7990
Ethene	ND	mg/L	0.026	1	12/10/02	10:29	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	10:29	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.214	mg/l	0.100	1	12/ 5/02	19:47	S. Duncan	3500D	7985
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	31.2	mg/l	0.500	5	12/ 5/02	19:03	A.Bamarni	353.2	7978
Sulfate	374.	mg/l	20.0	20	12/ 6/02	10:30	M.Shockley	375.4	9132
Alkalinity as CaCO3	323.	mg/l	5.00	1	12/ 5/02	10:21	G. Baun	310.1	7994
Total Organic Carbon	2.61	mg/l	1.00	1	12/10/02	1:25	L.Franklin	415.1	1
Sulfide	ND	mg/l	1.000	1	12/ 6/02	18:30	A.Bamarni	376.1	8434
Chloride	34.4	mg/l	20.0	20	12/ 9/02	23:43	A.Bamarni	325.2	9697

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A198872

Sample ID: TW-07

Project: 51870.7

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LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

M = Method RSK175 modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/ 5/02

BTEX/GRO Surr., a,a,a-TFT % Recovery 104 69 - 132 6188

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
---------	-------	------------	--------	------------	----------	--------------	------------	--------------

VOA PARAMETERS

Benzene	mg/l	< 0.0010	0.0579	0.0500	116	78. - 132.	497	02-A1
Benzene	mg/l	< 0.0005	0.0461	0.0500	92	78. - 132.	689	blank
Chlorobenzene	mg/l	< 0.00100	0.0580	0.0500	116	79. - 124.	497	02-A198407
Chlorobenzene	mg/l	< 0.00020	0.0480	0.0500	96	79. - 124.	689	blank
1,1-Dichloroethene	mg/l	< 0.00100	0.0630	0.0500	126	68. - 141.	497	02-A198407
1,1-Dichloroethene	mg/l	< 0.00060	0.0489	0.0500	98	68. - 141.	689	blank
Toluene	mg/l	< 0.0010	0.0564	0.0500	113	77. - 134.	497	02-A198407
Toluene	mg/l	< 0.0006	0.0456	0.0500	91	77. - 134.	689	blank
Trichloroethene	mg/l	< 0.00100	0.0591	0.0500	118	73. - 137.	497	02-A198407
Trichloroethene	mg/l	< 0.00040	0.0484	0.0500	97	73. - 137.	689	blank
Tetrachloroethene	mg/l	< 0.00100	0.0638	0.0500	128	72. - 136.	497	02-A198407
VOA Surr 1,2-DCA-d4	% Rec				104	73. - 133.	497	
VOA Surr 1,2-DCA-d4	% Rec				113	73. - 133.	689	
VOA Surr Toluene-d8	% Rec				100	80. - 121.	497	
VOA Surr Toluene-d8	% Rec				99	80. - 121.	689	
VOA Surr, 4-BFB	% Rec				100	80. - 128.	497	
VOA Surr, 4-BFB	% Rec				91	80. - 128.	689	
VOA Surr, DBFM	% Rec				102	81. - 121.	497	
VOA Surr, DBFM	% Rec				108	81. - 121.	689	

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Sulfate	mg/l	70.2	162.	100.	92	80 - 120	9132	02-A198871
Total Organic Carbon	mg/l	8.72	30.7	20.0	110	80 - 120	9994	02-A198849
Sulfide	mg/l	< 1.000	21.00	20.00	105	80 - 120	8434	02-A199054
Chloride	mg/l	15.0	23.5	10.0	85	80 - 120	9697	02-A198868

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Methane	mg/L	< 0.026	1.19	1.33	89	40 - 140	320	02-A198869
Ethene	mg/L	< 0.026	2.25	2.32	97	40 - 140	320	02-A198869
Ethane	mg/L	< 0.026	2.43	2.50	97	40 - 140	320	02-A198869

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
---------	-------	------------	-----------	-----	-------	------------

VOA PARAMETERS

Benzene	mg/l	0.0579	0.0573	1.04	15.	497
Benzene	mg/l	0.0461	0.0476	3.20	15.	689
Chlorobenzene	mg/l	0.0580	0.0576	0.69	16.	497
Chlorobenzene	mg/l	0.0480	0.0504	4.88	16.	689
1,1-Dichloroethene	mg/l	0.0630	0.0648	2.82	19.	497
1,1-Dichloroethene	mg/l	0.0489	0.0496	1.42	19.	689
Toluene	mg/l	0.0564	0.0562	0.36	16.	497
Toluene	mg/l	0.0456	0.0477	4.50	16.	689
Trichloroethene	mg/l	0.0591	0.0586	0.85	20.	497
Trichloroethene	mg/l	0.0484	0.0478	1.25	20.	689
Tetrachloroethene	mg/l	0.0638	0.0628	1.58	23.	497
VOA Surr 1,2-DCA-d4	% Rec		100.			497
VOA Surr 1,2-DCA-d4	% Rec		111.			689
VOA Surr Toluene-d8	% Rec		100.			497
VOA Surr Toluene-d8	% Rec		102.			689
VOA Surr, 4-BFB	% Rec		99.			497
VOA Surr, 4-BFB	% Rec		95.			689
VOA Surr, DBFM	% Rec		99.			497
VOA Surr, DBFM	% Rec		104.			689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 4

Laboratory Receipt Date: 12/ 5/02

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.19	1.22	2.49	50	320
Ethene	mg/L	2.25	2.26	0.44	50	320
Ethane	mg/L	2.43	2.45	0.82	50	320

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	4.37	4.40	0.68	20	7978
Sulfate	mg/l	162.	158.	2.50	20	9132
Total Organic Carbon	mg/l	30.7	30.1	1.97	20	9994
Sulfide	mg/l	21.00	20.90	0.48	20	8434
Chloride	mg/l	23.5	23.6	0.42	20	9697
BTEX/GRO Surr., a,a,a-TFT	% Recovery			108	69 - 132	6188

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.255	102	60 - 154	497
Acetone	mg/l	0.250	0.231	92	60 - 154	497
Acetone	mg/l	0.250	0.254	102	60 - 154	689
Benzene	mg/l	0.0500	0.0509	102	78 - 127	497
Benzene	mg/l	0.0500	0.0492	98	78 - 127	497
Benzene	mg/l	0.0500	0.0486	97	78 - 127	689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Bromobenzene	mg/l	0.0500	0.0534	107	80 - 120	497
Bromobenzene	mg/l	0.0500	0.0505	101	80 - 120	497
Bromobenzene	mg/l	0.0500	0.0506	101	80 - 120	689
Bromochloromethane	mg/l	0.0500	0.0517	103	66 - 137	497
Bromochloromethane	mg/l	0.0500	0.0479	96	66 - 137	497
Bromochloromethane	mg/l	0.0500	0.0478	96	66 - 137	689
Bromoform	mg/l	0.0500	0.0564	113	66 - 129	497
Bromoform	mg/l	0.0500	0.0483	97	66 - 129	497
Bromoform	mg/l	0.0500	0.0506	101	66 - 129	689
Bromomethane	mg/l	0.0500	0.0367	73	47 - 163	497
Bromomethane	mg/l	0.0500	0.0405	81	47 - 163	497
Bromomethane	mg/l	0.0500	0.0397	79	47 - 163	689
2-Butanone	mg/l	0.250	0.244	98	75 - 140	497
2-Butanone	mg/l	0.250	0.218	87	75 - 140	497
2-Butanone	mg/l	0.250	0.233	93	75 - 140	689
n-Butylbenzene	mg/l	0.0500	0.0579	116	61 - 131	497
n-Butylbenzene	mg/l	0.0500	0.0539	108	61 - 131	497
n-Butylbenzene	mg/l	0.0500	0.0520	104	61 - 131	689
sec-Butylbenzene	mg/l	0.0500	0.0572	114	72 - 124	497
sec-Butylbenzene	mg/l	0.0500	0.0543	109	72 - 124	497
sec-Butylbenzene	mg/l	0.0500	0.0532	106	72 - 124	689
t-Butylbenzene	mg/l	0.0500	0.0598	120	74 - 123	497
t-Butylbenzene	mg/l	0.0500	0.0561	112	74 - 123	497
t-Butylbenzene	mg/l	0.0500	0.0556	111	74 - 123	689
Carbon disulfide	mg/l	0.0500	0.0533	107	67 - 138	497
Carbon disulfide	mg/l	0.0500	0.0506	101	67 - 138	497
Carbon disulfide	mg/l	0.0500	0.0497	99	67 - 138	689
Carbon tetrachloride	mg/l	0.0500	0.0574	115	69 - 132	497
Carbon tetrachloride	mg/l	0.0500	0.0534	107	69 - 132	497
Carbon tetrachloride	mg/l	0.0500	0.0523	105	69 - 132	689
Chlorobenzene	mg/l	0.0500	0.0528	106	81 - 120	497

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0512	102	81 - 120	497
Chlorobenzene	mg/l	0.0500	0.0506	101	81 - 120	689
Chloroethane	mg/l	0.0500	0.0506	101	65 - 134	497
Chloroethane	mg/l	0.0500	0.0539	108	65 - 134	497
Chloroethane	mg/l	0.0500	0.0533	107	65 - 134	689
Chloroform	mg/l	0.0500	0.0493	99	77 - 125	497
Chloroform	mg/l	0.0500	0.0479	96	77 - 125	497
Chloroform	mg/l	0.0500	0.0469	94	77 - 125	689
Chloromethane	mg/l	0.0500	0.0304	61	43 - 142	497
Chloromethane	mg/l	0.0500	0.0422	84	43 - 142	497
Chloromethane	mg/l	0.0500	0.0415	83	43 - 142	689
2-Chlorotoluene	mg/l	0.0500	0.0553	111	76 - 126	497
2-Chlorotoluene	mg/l	0.0500	0.0531	106	76 - 126	497
2-Chlorotoluene	mg/l	0.0500	0.0525	105	76 - 126	689
4-Chlorotoluene	mg/l	0.0500	0.0576	115	79 - 123	497
4-Chlorotoluene	mg/l	0.0500	0.0547	109	79 - 123	497
4-Chlorotoluene	mg/l	0.0500	0.0540	108	79 - 123	689
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0572	114	64 - 132	497
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0466	93	64 - 132	497
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0522	104	64 - 132	689
Dibromochloromethane	mg/l	0.0500	0.0542	108	78 - 124	497
Dibromochloromethane	mg/l	0.0500	0.0492	98	78 - 124	497
Dibromochloromethane	mg/l	0.0500	0.0490	98	78 - 124	689
1,2-Dibromoethane	mg/l	0.0500	0.0532	106	79 - 126	497
1,2-Dibromoethane	mg/l	0.0500	0.0498	100	79 - 126	497
1,2-Dibromoethane	mg/l	0.0500	0.0502	100	79 - 126	689
Dibromomethane	mg/l	0.0500	0.0512	102	75 - 131	497
Dibromomethane	mg/l	0.0500	0.0484	97	75 - 131	497
Dibromomethane	mg/l	0.0500	0.0491	98	75 - 131	689
1,2-Dichlorobenzene	mg/l	0.0500	0.0563	113	80 - 120	497
1,2-Dichlorobenzene	mg/l	0.0500	0.0528	106	80 - 120	497

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dichlorobenzene	mg/l	0.0500	0.0529	106	80 - 120	689
1,3-Dichlorobenzene	mg/l	0.0500	0.0569	114	79 - 120	497
1,3-Dichlorobenzene	mg/l	0.0500	0.0529	106	79 - 120	497
1,3-Dichlorobenzene	mg/l	0.0500	0.0520	104	79 - 120	689
1,4-Dichlorobenzene	mg/l	0.0500	0.0546	109	78 - 118	497
1,4-Dichlorobenzene	mg/l	0.0500	0.0509	102	78 - 118	497
1,4-Dichlorobenzene	mg/l	0.0500	0.0505	101	78 - 118	689
Dichlorodifluoromethane	mg/l	0.0500	0.0247	49	45 - 149	497
Dichlorodifluoromethane	mg/l	0.0500	0.0597	119	45 - 149	497
Dichlorodifluoromethane	mg/l	0.0500	0.0562	112	45 - 149	689
1,1-Dichloroethane	mg/l	0.0500	0.0531	106	73 - 128	497
1,1-Dichloroethane	mg/l	0.0500	0.0440	88	73 - 128	497
1,1-Dichloroethane	mg/l	0.0500	0.0435	87	73 - 128	689
1,2-Dichloroethane	mg/l	0.0500	0.0533	107	71 - 135	497
1,2-Dichloroethane	mg/l	0.0500	0.0502	100	71 - 135	497
1,2-Dichloroethane	mg/l	0.0500	0.0498	100	71 - 135	689
1,1-Dichloroethene	mg/l	0.0500	0.0532	106	72 - 128	497
1,1-Dichloroethene	mg/l	0.0500	0.0506	101	72 - 128	497
1,1-Dichloroethene	mg/l	0.0500	0.0508	102	72 - 128	689
cis-1,2-Dichloroethene	mg/l	0.0500	0.0508	102	76 - 127	497
cis-1,2-Dichloroethene	mg/l	0.0500	0.0483	97	76 - 127	497
cis-1,2-Dichloroethene	mg/l	0.0500	0.0465	93	76 - 127	689
trans-1,2-Dichloroethene	mg/l	0.0500	0.0537	107	71 - 131	497
trans-1,2-Dichloroethene	mg/l	0.0500	0.0534	107	71 - 131	497
trans-1,2-Dichloroethene	mg/l	0.0500	0.0522	104	71 - 131	689
1,2-Dichloropropane	mg/l	0.0500	0.0499	100	75 - 127	497
1,2-Dichloropropane	mg/l	0.0500	0.0475	95	75 - 127	497
1,2-Dichloropropane	mg/l	0.0500	0.0482	96	75 - 127	689
1,3-Dichloropropane	mg/l	0.0500	0.0543	109	81 - 128	497
1,3-Dichloropropane	mg/l	0.0500	0.0506	101	81 - 128	497
1,3-Dichloropropane	mg/l	0.0500	0.0502	100	81 - 128	689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2,2-Dichloropropane	mg/l	0.0500	0.0508	102	45 - 145	497
2,2-Dichloropropane	mg/l	0.0500	0.0414	83	45 - 145	497
2,2-Dichloropropane	mg/l	0.0500	0.0350	70	45 - 145	689
1,1-Dichloropropene	mg/l	0.0500	0.0500	100	76 - 127	497
1,1-Dichloropropene	mg/l	0.0500	0.0486	97	76 - 127	497
1,1-Dichloropropene	mg/l	0.0500	0.0478	96	76 - 127	689
cis-1,3-Dichloropropene	mg/l	0.0500	0.0523	105	72 - 131	497
cis-1,3-Dichloropropene	mg/l	0.0500	0.0490	98	72 - 131	497
cis-1,3-Dichloropropene	mg/l	0.0500	0.0467	93	72 - 131	689
trans-1,3-Dichloropropene	mg/l	0.0500	0.0529	106	69 - 131	497
trans-1,3-Dichloropropene	mg/l	0.0500	0.0477	95	69 - 131	497
trans-1,3-Dichloropropene	mg/l	0.0500	0.0463	93	69 - 131	689
Ethylbenzene	mg/l	0.0500	0.0548	110	78 - 125	497
Ethylbenzene	mg/l	0.0500	0.0534	107	78 - 125	497
Ethylbenzene	mg/l	0.0500	0.0524	105	78 - 125	689
Hexachlorobutadiene	mg/l	0.0500	0.0544	109	59 - 126	497
Hexachlorobutadiene	mg/l	0.0500	0.0526	105	59 - 126	497
Hexachlorobutadiene	mg/l	0.0500	0.0502	100	59 - 126	689
2-Hexanone	mg/l	0.250	0.236	94	71 - 142	497
2-Hexanone	mg/l	0.250	0.206	82	71 - 142	497
2-Hexanone	mg/l	0.250	0.231	92	71 - 142	689
Isopropylbenzene	mg/l	0.0500	0.0570	114	78 - 123	497
Isopropylbenzene	mg/l	0.0500	0.0558	112	78 - 123	497
Isopropylbenzene	mg/l	0.0500	0.0538	108	78 - 123	689
4-Isopropyltoluene	mg/l	0.0500	0.0584	117	73 - 125	497
4-Isopropyltoluene	mg/l	0.0500	0.0549	110	73 - 125	497
4-Isopropyltoluene	mg/l	0.0500	0.0536	107	73 - 125	689
4-Methyl-2-pentanone	mg/l	0.250	0.239	96	71 - 141	497
4-Methyl-2-pentanone	mg/l	0.250	0.215	86	71 - 141	497
4-Methyl-2-pentanone	mg/l	0.250	0.230	92	71 - 141	689
Methylene chloride	mg/l	0.0500	0.0590	118	70 - 140	497

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methylene chloride	mg/l	0.0500	0.0573	115	70 - 140	497
Methylene chloride	mg/l	0.0500	0.0585	117	70 - 140	689
Naphthalene	mg/l	0.0500	0.0653	131	52 - 140	497
Naphthalene	mg/l	0.0500	0.0536	107	52 - 140	497
Naphthalene	mg/l	0.0500	0.0571	114	52 - 140	689
n-Propylbenzene	mg/l	0.0500	0.0566	113	75 - 125	497
n-Propylbenzene	mg/l	0.0500	0.0533	107	75 - 125	497
n-Propylbenzene	mg/l	0.0500	0.0524	105	75 - 125	689
Styrene	mg/l	0.0500	0.0581	116	82 - 122	497
Styrene	mg/l	0.0500	0.0572	114	82 - 122	497
Styrene	mg/l	0.0500	0.0554	111	82 - 122	689
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0587	117	85 - 123	497
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0562	112	85 - 123	497
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0551	110	85 - 123	689
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0543	109	74 - 133	497
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0469	94	74 - 133	497
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0472	94	74 - 133	689
Tetrachloroethene	mg/l	0.0500	0.0568	114	76 - 123	497
Tetrachloroethene	mg/l	0.0500	0.0540	108	76 - 123	497
Tetrachloroethene	mg/l	0.0500	0.0575	115	76 - 123	699
Toluene	mg/l	0.0500	0.0506	101	78 - 127	497
Toluene	mg/l	0.0500	0.0497	99	78 - 127	497
Toluene	mg/l	0.0500	0.0490	98	78 - 127	689
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0649	130	59 - 132	497
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0575	115	59 - 132	497
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0572	114	59 - 132	689
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0578	116	60 - 133	497
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0507	101	60 - 133	497
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0494	99	60 - 133	689
1,1,1-Trichloroethane	mg/l	0.0500	0.0538	108	74 - 128	497
1,1,1-Trichloroethane	mg/l	0.0500	0.0514	103	74 - 128	497

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1,1-Trichloroethane	mg/l	0.0500	0.0500	100	74 - 128	689
1,1,2-Trichloroethane	mg/l	0.0500	0.0517	103	85 - 125	497
1,1,2-Trichloroethane	mg/l	0.0500	0.0483	97	85 - 125	497
1,1,2-Trichloroethane	mg/l	0.0500	0.0460	92	85 - 125	689
Trichloroethene	mg/l	0.0500	0.0527	105	78 - 125	497
Trichloroethene	mg/l	0.0500	0.0501	100	78 - 125	497
Trichloroethene	mg/l	0.0500	0.0529	106	78 - 125	689
1,2,3-Trichloropropane	mg/l	0.0500	0.0482	96	75 - 130	497
1,2,3-Trichloropropane	mg/l	0.0500	0.0534	107	75 - 130	497
1,2,3-Trichloropropane	mg/l	0.0500	0.0541	108	75 - 130	689
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0608	122	77 - 122	497
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0582	116	77 - 122	497
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0564	113	77 - 122	689
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0599	120	75 - 125	497
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0568	114	75 - 125	497
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0554	111	75 - 125	689
Vinyl chloride	mg/l	0.0500	0.0366	73	61 - 140	497
Vinyl chloride	mg/l	0.0500	0.0454	91	61 - 140	497
Vinyl chloride	mg/l	0.0500	0.0438	88	61 - 140	689
Xylenes (Total)	mg/l	0.150	0.168	112	77 - 126	497
Xylenes (Total)	mg/l	0.150	0.164	109	77 - 126	497
Xylenes (Total)	mg/l	0.150	0.161	107	77 - 126	689
Bromodichloromethane	mg/l	0.0500	0.0585	117	79 - 126	497
Bromodichloromethane	mg/l	0.0500	0.0554	111	79 - 126	497
Bromodichloromethane	mg/l	0.0500	0.0541	108	79 - 126	689
Trichlorofluoromethane	mg/l	0.0500	0.0516	103	60 - 140	497
Trichlorofluoromethane	mg/l	0.0500	0.0545	109	60 - 140	497
Trichlorofluoromethane	mg/l	0.0500	0.0528	106	60 - 140	689
Methane	mg/L	1.33	1.27	95	78 - 120	320
Ethene	mg/L	2.32	2.32	100	76 - 108	320
Ethane	mg/L	2.50	2.52	101	77 - 111	320

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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VOA Surr 1,2-DCA-d4	% Rec	101	73 - 133	497
VOA Surr 1,2-DCA-d4	% Rec	96	73 - 133	497
VOA Surr 1,2-DCA-d4	% Rec	98	73 - 133	689
VOA Surr 1,2-DCA-d4	% Rec	103	73 - 133	699
VOA Surr Toluene-d8	% Rec	101	80 - 121	497
VOA Surr Toluene-d8	% Rec	101	80 - 121	497
VOA Surr Toluene-d8	% Rec	100	80 - 121	689
VOA Surr Toluene-d8	% Rec	100	80 - 121	699
VOA Surr, 4-BFB	% Rec	102	80 - 128	497
VOA Surr, 4-BFB	% Rec	98	80 - 128	497
VOA Surr, 4-BFB	% Rec	100	80 - 128	689
VOA Surr, 4-BFB	% Rec	98	80 - 128	699
VOA Surr, DBFM	% Rec	103	81 - 121	497
VOA Surr, DBFM	% Rec	99	81 - 121	497
VOA Surr, DBFM	% Rec	99	81 - 121	689
VOA Surr, DBFM	% Rec	96	81 - 121	699

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.27	95	78 - 120	320
Ethene	mg/L	2.32	2.32	100	76 - 108	320
Ethane	mg/L	2.50	2.52	101	77 - 111	320

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.20	95	90 - 110	7978
Sulfate	mg/l	25.0	25.2	101	90 - 110	9132
Total Organic Carbon	mg/l	200.	204.	102	90 - 110	9994

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Total Organic Carbon	mg/l	200.	205.	102	90 - 110	1
Sulfide	mg/l	20.00	20.70	104	90 - 110	8434
Chloride	mg/l	10.0	9.88	99	90 - 110	9697

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	31.2	31.3	0.32	15.	7978	02-A198872
Sulfate	mg/l	234.	234.	0.00	15.	9132	02-A198870
Chloride	mg/l	286.	290.	1.39	15.	9697	02-A199118

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
BTEX/GRO Surr., a,a,a-TFT	128.	% Recovery	6188	12/ 5/02	15:12

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	497	12/ 5/02	14:14
Acetone	< 0.00470	mg/l	497	12/ 6/02	0:43
Acetone	< 0.00470	mg/l	689	12/ 6/02	10:53
Benzene	< 0.0005	mg/l	497	12/ 5/02	14:14
Benzene	< 0.0005	mg/l	497	12/ 6/02	0:43
Benzene	< 0.0005	mg/l	689	12/ 6/02	10:53

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Bromobenzene	< 0.00030	mg/l	497	12/ 5/02	14:14
Bromobenzene	< 0.00030	mg/l	497	12/ 6/02	0:43
Bromobenzene	< 0.00030	mg/l	689	12/ 6/02	10:53
Bromochloromethane	< 0.00030	mg/l	497	12/ 5/02	14:14
Bromochloromethane	< 0.00030	mg/l	497	12/ 6/02	0:43
Bromochloromethane	< 0.00030	mg/l	689	12/ 6/02	10:53
Bromoform	< 0.00060	mg/l	497	12/ 5/02	14:14
Bromoform	< 0.00060	mg/l	497	12/ 6/02	0:43
Bromoform	< 0.00060	mg/l	689	12/ 6/02	10:53
Bromomethane	< 0.00060	mg/l	497	12/ 5/02	14:14
Bromomethane	< 0.00060	mg/l	497	12/ 6/02	0:43
Bromomethane	< 0.00060	mg/l	689	12/ 6/02	10:53
2-Butanone	< 0.00310	mg/l	497	12/ 5/02	14:14
2-Butanone	< 0.00310	mg/l	497	12/ 6/02	0:43
2-Butanone	< 0.00310	mg/l	689	12/ 6/02	10:53
n-Butylbenzene	< 0.00010	mg/l	497	12/ 5/02	14:14
n-Butylbenzene	< 0.00010	mg/l	497	12/ 6/02	0:43
n-Butylbenzene	< 0.00010	mg/l	689	12/ 6/02	10:53
sec-Butylbenzene	< 0.00030	mg/l	497	12/ 5/02	14:14
sec-Butylbenzene	< 0.00030	mg/l	497	12/ 6/02	0:43
sec-Butylbenzene	< 0.00030	mg/l	689	12/ 6/02	10:53
t-Butylbenzene	< 0.00030	mg/l	497	12/ 5/02	14:14
t-Butylbenzene	< 0.00030	mg/l	497	12/ 6/02	0:43
t-Butylbenzene	< 0.00030	mg/l	689	12/ 6/02	10:53
Carbon disulfide	< 0.00020	mg/l	497	12/ 5/02	14:14
Carbon disulfide	< 0.00020	mg/l	497	12/ 6/02	0:43
Carbon disulfide	< 0.00020	mg/l	689	12/ 6/02	10:53
Carbon tetrachloride	< 0.00040	mg/l	497	12/ 5/02	14:14
Carbon tetrachloride	< 0.00040	mg/l	497	12/ 6/02	0:43
Carbon tetrachloride	< 0.00040	mg/l	689	12/ 6/02	10:53
Chlorobenzene	< 0.00020	mg/l	497	12/ 5/02	14:14

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chlorobenzene	< 0.00020	mg/l	497	12/ 6/02	0:43
Chlorobenzene	< 0.00020	mg/l	689	12/ 6/02	10:53
Chloroethane	< 0.00100	mg/l	497	12/ 5/02	14:14
Chloroethane	< 0.00100	mg/l	497	12/ 6/02	0:43
Chloroethane	< 0.00100	mg/l	689	12/ 6/02	10:53
Chloroform	< 0.00080	mg/l	497	12/ 5/02	14:14
Chloroform	< 0.00080	mg/l	497	12/ 6/02	0:43
Chloroform	< 0.00080	mg/l	689	12/ 6/02	10:53
Chloromethane	< 0.00070	mg/l	497	12/ 5/02	14:14
Chloromethane	< 0.00070	mg/l	497	12/ 6/02	0:43
Chloromethane	< 0.00070	mg/l	689	12/ 6/02	10:53
2-Chlorotoluene	< 0.00040	mg/l	497	12/ 5/02	14:14
2-Chlorotoluene	< 0.00040	mg/l	497	12/ 6/02	0:43
2-Chlorotoluene	< 0.00040	mg/l	689	12/ 6/02	10:53
4-Chlorotoluene	< 0.00050	mg/l	497	12/ 5/02	14:14
4-Chlorotoluene	< 0.00050	mg/l	497	12/ 6/02	0:43
4-Chlorotoluene	< 0.00050	mg/l	689	12/ 6/02	10:53
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	497	12/ 5/02	14:14
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	497	12/ 6/02	0:43
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	689	12/ 6/02	10:53
Dibromochloromethane	< 0.00050	mg/l	497	12/ 5/02	14:14
Dibromochloromethane	< 0.00050	mg/l	497	12/ 6/02	0:43
Dibromochloromethane	< 0.00050	mg/l	689	12/ 6/02	10:53
1,2-Dibromoethane	< 0.00040	mg/l	497	12/ 5/02	14:14
1,2-Dibromoethane	< 0.00040	mg/l	497	12/ 6/02	0:43
1,2-Dibromoethane	< 0.00040	mg/l	689	12/ 6/02	10:53
Dibromomethane	< 0.00090	mg/l	497	12/ 5/02	14:14
Dibromomethane	< 0.00090	mg/l	497	12/ 6/02	0:43
Dibromomethane	< 0.00090	mg/l	689	12/ 6/02	10:53
1,2-Dichlorobenzene	< 0.00020	mg/l	497	12/ 5/02	14:14
1,2-Dichlorobenzene	< 0.00020	mg/l	497	12/ 6/02	0:43

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dichlorobenzene	< 0.00020	mg/l	689	12/ 6/02	10:53
1,3-Dichlorobenzene	< 0.00030	mg/l	497	12/ 5/02	14:14
1,3-Dichlorobenzene	< 0.00030	mg/l	497	12/ 6/02	0:43
1,3-Dichlorobenzene	< 0.00030	mg/l	689	12/ 6/02	10:53
1,4-Dichlorobenzene	< 0.00040	mg/l	497	12/ 5/02	14:14
1,4-Dichlorobenzene	< 0.00040	mg/l	497	12/ 6/02	0:43
1,4-Dichlorobenzene	< 0.00040	mg/l	689	12/ 6/02	10:53
Dichlorodifluoromethane	< 0.00050	mg/l	497	12/ 5/02	14:14
Dichlorodifluoromethane	< 0.00050	mg/l	497	12/ 6/02	0:43
Dichlorodifluoromethane	< 0.00050	mg/l	689	12/ 6/02	10:53
1,1-Dichloroethane	< 0.00020	mg/l	497	12/ 5/02	14:14
1,1-Dichloroethane	< 0.00020	mg/l	497	12/ 6/02	0:43
1,1-Dichloroethane	< 0.00020	mg/l	689	12/ 6/02	10:53
1,2-Dichloroethane	< 0.00060	mg/l	497	12/ 5/02	14:14
1,2-Dichloroethane	< 0.00060	mg/l	497	12/ 6/02	0:43
1,2-Dichloroethane	< 0.00060	mg/l	689	12/ 6/02	10:53
1,1-Dichloroethene	< 0.00060	mg/l	497	12/ 5/02	14:14
1,1-Dichloroethene	< 0.00060	mg/l	497	12/ 6/02	0:43
1,1-Dichloroethene	< 0.00060	mg/l	689	12/ 6/02	10:53
cis-1,2-Dichloroethene	< 0.00060	mg/l	497	12/ 5/02	14:14
cis-1,2-Dichloroethene	< 0.00060	mg/l	497	12/ 6/02	0:43
cis-1,2-Dichloroethene	< 0.00060	mg/l	689	12/ 6/02	10:53
trans-1,2-Dichloroethene	< 0.00050	mg/l	497	12/ 5/02	14:14
trans-1,2-Dichloroethene	< 0.00050	mg/l	497	12/ 6/02	0:43
trans-1,2-Dichloroethene	< 0.00050	mg/l	689	12/ 6/02	10:53
1,2-Dichloropropane	< 0.00040	mg/l	497	12/ 5/02	14:14
1,2-Dichloropropane	< 0.00040	mg/l	497	12/ 6/02	0:43
1,2-Dichloropropane	< 0.00040	mg/l	689	12/ 6/02	10:53
1,3-Dichloropropane	< 0.00040	mg/l	497	12/ 5/02	14:14
1,3-Dichloropropane	< 0.00040	mg/l	497	12/ 6/02	0:43
1,3-Dichloropropane	< 0.00040	mg/l	689	12/ 6/02	10:53

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2,2-Dichloropropane	< 0.00040	mg/l	497	12/ 5/02	14:14
2,2-Dichloropropane	< 0.00040	mg/l	497	12/ 6/02	0:43
2,2-Dichloropropane	< 0.00040	mg/l	689	12/ 6/02	10:53
1,1-Dichloropropene	< 0.00050	mg/l	497	12/ 5/02	14:14
1,1-Dichloropropene	< 0.00050	mg/l	497	12/ 6/02	0:43
1,1-Dichloropropene	< 0.00050	mg/l	689	12/ 6/02	10:53
cis-1,3-Dichloropropene	< 0.00030	mg/l	497	12/ 5/02	14:14
cis-1,3-Dichloropropene	< 0.00030	mg/l	497	12/ 6/02	0:43
cis-1,3-Dichloropropene	< 0.00030	mg/l	689	12/ 6/02	10:53
trans-1,3-Dichloropropene	< 0.00050	mg/l	497	12/ 5/02	14:14
trans-1,3-Dichloropropene	< 0.00050	mg/l	497	12/ 6/02	0:43
trans-1,3-Dichloropropene	< 0.00050	mg/l	689	12/ 6/02	10:53
Ethylbenzene	< 0.0003	mg/l	497	12/ 5/02	14:14
Ethylbenzene	< 0.0003	mg/l	497	12/ 6/02	0:43
Ethylbenzene	< 0.0003	mg/l	689	12/ 6/02	10:53
Hexachlorobutadiene	< 0.00080	mg/l	497	12/ 5/02	14:14
Hexachlorobutadiene	< 0.00080	mg/l	497	12/ 6/02	0:43
Hexachlorobutadiene	< 0.00080	mg/l	689	12/ 6/02	10:53
2-Hexanone	< 0.00420	mg/l	497	12/ 5/02	14:14
2-Hexanone	< 0.00420	mg/l	497	12/ 6/02	0:43
2-Hexanone	< 0.00420	mg/l	689	12/ 6/02	10:53
Isopropylbenzene	< 0.00040	mg/l	497	12/ 5/02	14:14
Isopropylbenzene	< 0.00040	mg/l	497	12/ 6/02	0:43
Isopropylbenzene	< 0.00040	mg/l	689	12/ 6/02	10:53
4-Isopropyltoluene	< 0.00060	mg/l	497	12/ 5/02	14:14
4-Isopropyltoluene	< 0.00060	mg/l	497	12/ 6/02	0:43
4-Isopropyltoluene	< 0.00060	mg/l	689	12/ 6/02	10:53
4-Methyl-2-pentanone	< 0.00490	mg/l	497	12/ 5/02	14:14
4-Methyl-2-pentanone	< 0.00490	mg/l	497	12/ 6/02	0:43
4-Methyl-2-pentanone	< 0.00490	mg/l	689	12/ 6/02	10:53
Methylene chloride	< 0.00240	mg/l	497	12/ 5/02	14:14

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Methylene chloride	< 0.00240	mg/l	497	12/ 6/02	0:43
Methylene chloride	< 0.00240	mg/l	689	12/ 6/02	10:53
Naphthalene	< 0.00120	mg/l	497	12/ 5/02	14:14
Naphthalene	< 0.00120	mg/l	497	12/ 6/02	0:43
Naphthalene	< 0.00120	mg/l	689	12/ 6/02	10:53
n-Propylbenzene	< 0.00030	mg/l	497	12/ 5/02	14:14
n-Propylbenzene	< 0.00030	mg/l	497	12/ 6/02	0:43
n-Propylbenzene	< 0.00030	mg/l	689	12/ 6/02	10:53
Styrene	< 0.00040	mg/l	497	12/ 5/02	14:14
Styrene	< 0.00040	mg/l	497	12/ 6/02	0:43
Styrene	< 0.00040	mg/l	689	12/ 6/02	10:53
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	497	12/ 5/02	14:14
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	497	12/ 6/02	0:43
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	689	12/ 6/02	10:53
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	497	12/ 5/02	14:14
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	497	12/ 6/02	0:43
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	689	12/ 6/02	10:53
Tetrachloroethene	< 0.00040	mg/l	497	12/ 5/02	14:14
Tetrachloroethene	< 0.00040	mg/l	497	12/ 6/02	0:43
Tetrachloroethene	< 0.00040	mg/l	699	12/ 9/02	14:30
Toluene	< 0.0006	mg/l	497	12/ 5/02	14:14
Toluene	< 0.0006	mg/l	497	12/ 6/02	0:43
Toluene	< 0.0006	mg/l	689	12/ 6/02	10:53
1,2,3-Trichlorobenzene	< 0.00100	mg/l	497	12/ 5/02	14:14
1,2,3-Trichlorobenzene	< 0.00100	mg/l	497	12/ 6/02	0:43
1,2,3-Trichlorobenzene	< 0.00100	mg/l	689	12/ 6/02	10:53
1,2,4-Trichlorobenzene	< 0.00060	mg/l	497	12/ 5/02	14:14
1,2,4-Trichlorobenzene	< 0.00060	mg/l	497	12/ 6/02	0:43
1,2,4-Trichlorobenzene	< 0.00060	mg/l	689	12/ 6/02	10:53
1,1,1-Trichloroethane	< 0.00070	mg/l	497	12/ 5/02	14:14
1,1,1-Trichloroethane	< 0.00070	mg/l	497	12/ 6/02	0:43

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,1-Trichloroethane	< 0.00070	mg/l	689	12/ 6/02	10:53
1,1,2-Trichloroethane	< 0.00040	mg/l	497	12/ 5/02	14:14
1,1,2-Trichloroethane	< 0.00040	mg/l	497	12/ 6/02	0:43
1,1,2-Trichloroethane	< 0.00040	mg/l	689	12/ 6/02	10:53
Trichloroethene	< 0.00040	mg/l	497	12/ 5/02	14:14
Trichloroethene	< 0.00040	mg/l	497	12/ 6/02	0:43
Trichloroethene	< 0.00040	mg/l	689	12/ 6/02	10:53
1,2,3-Trichloropropane	< 0.00060	mg/l	497	12/ 5/02	14:14
1,2,3-Trichloropropane	< 0.00060	mg/l	497	12/ 6/02	0:43
1,2,3-Trichloropropane	< 0.00060	mg/l	689	12/ 6/02	10:53
1,2,4-Trimethylbenzene	< 0.0003	mg/l	497	12/ 5/02	14:14
1,2,4-Trimethylbenzene	< 0.0003	mg/l	497	12/ 6/02	0:43
1,2,4-Trimethylbenzene	< 0.0003	mg/l	689	12/ 6/02	10:53
1,3,5-Trimethylbenzene	< 0.00100	mg/l	497	12/ 5/02	14:14
1,3,5-Trimethylbenzene	< 0.00100	mg/l	497	12/ 6/02	0:43
1,3,5-Trimethylbenzene	< 0.00100	mg/l	689	12/ 6/02	10:53
Vinyl chloride	< 0.00050	mg/l	497	12/ 5/02	14:14
Vinyl chloride	< 0.00050	mg/l	497	12/ 6/02	0:43
Vinyl chloride	< 0.00050	mg/l	689	12/ 6/02	10:53
Xylenes (Total)	< 0.0009	mg/l	497	12/ 5/02	14:14
Xylenes (Total)	< 0.0009	mg/l	497	12/ 6/02	0:43
Xylenes (Total)	< 0.0009	mg/l	689	12/ 6/02	10:53
Bromodichloromethane	< 0.00030	mg/l	497	12/ 5/02	14:14
Bromodichloromethane	< 0.00030	mg/l	497	12/ 6/02	0:43
Bromodichloromethane	< 0.00030	mg/l	689	12/ 6/02	10:53
Trichlorofluoromethane	< 0.00040	mg/l	497	12/ 5/02	14:14
Trichlorofluoromethane	< 0.00040	mg/l	497	12/ 6/02	0:43
Trichlorofluoromethane	< 0.00040	mg/l	689	12/ 6/02	10:53

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 19

Laboratory Receipt Date: 12/ 5/02

VOA Surr 1,2-DCA-d4	99.	% Rec	497	12/ 5/02	14:14
VOA Surr 1,2-DCA-d4	100.	% Rec	497	12/ 6/02	0:43
VOA Surr 1,2-DCA-d4	101.	% Rec	689	12/ 6/02	10:53
VOA Surr 1,2-DCA-d4	105.	% Rec	699	12/ 9/02	14:30
VOA Surr Toluene-d8	97.	% Rec	497	12/ 5/02	14:14
VOA Surr Toluene-d8	98.	% Rec	497	12/ 6/02	0:43
VOA Surr Toluene-d8	98.	% Rec	689	12/ 6/02	10:53
VOA Surr Toluene-d8	98.	% Rec	699	12/ 9/02	14:30
VOA Surr, 4-BFB	97.	% Rec	497	12/ 5/02	14:14
VOA Surr, 4-BFB	98.	% Rec	497	12/ 6/02	0:43
VOA Surr, 4-BFB	100.	% Rec	689	12/ 6/02	10:53
VOA Surr, 4-BFB	99.	% Rec	699	12/ 9/02	14:30
VOA Surr, DBFM	98.	% Rec	497	12/ 5/02	14:14
VOA Surr, DBFM	99.	% Rec	497	12/ 6/02	0:43
VOA Surr, DBFM	102.	% Rec	689	12/ 6/02	10:53
VOA Surr, DBFM	92.	% Rec	699	12/ 9/02	14:30

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	7978	12/ 5/02	18:34
Sulfate	< 1.00	mg/l	9132	12/ 6/02	10:30
Total Organic Carbon	< 1.00	mg/l	9994	12/ 9/02	18:54
Total Organic Carbon	< 1.00	mg/l	1	12/10/02	1:25
Sulfide	< 1.000	mg/l	8434	12/ 6/02	18:30
Chloride	< 1.00	mg/l	9697	12/ 9/02	22:37

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

MISC PARAMETERS					

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 20

Laboratory Receipt Date: 12/ 5/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Methane	< 0.026	mg/L	320	12/10/02	9:44
Ethene	< 0.026	mg/L	320	12/10/02	9:44
Ethane	< 0.026	mg/L	320	12/10/02	9:44

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 311785

‘

‘

‘

December 5, 2002
Analytical Data



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

312028

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Pick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Peeryler

Sampler Signature: Janna Peeryler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Pick Ryan Janna Peeryler

Invoice To: Pick Ryan

Quote #: 102501.2162.59 PO#: 6599

TAT ☒ Standard ☐ Rush (surcharges may apply)	Date Needed: _____	Fax Results: Y ☒ N ☐	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										REMARKS
									HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC (8260)	Chloride (325.1)	Alkalinity (310.1)	Carbon dioxide (4500B)	Nitrate (353.2)	Sulfate (375.4)	Sulfide (376.1)	methane/ethane/ethene (8015M)	TOC (415.1)	Fe(II) (6010F)		
			TW-09	2/5/02	838	G		GN		3	1			6			3	1	1	2	1	1	3	2	1	199716	
			OB-09	12/5/02	1006	G		GN		3	1			6			3	1	1	2	1	1	3	2	1	↓ 717	
			OB-07	2/5/02	1128	G		GN		3	1			6			3	1	1	2	1	1	3	2	1	199715	
			OB-07 (MS)	2/5/02	1150	G		GN		3							3									matrix spike	
			OB-07 (MSD)	2/5/02	1150	G		GN		3							3									m. spike dup.	
			W-5	2/5/02	1428	G		GN		3	1			6			3	1	1	2	1	1	3	2	1	199718	
			W-5 (dup)	2/5/02	1439	G		GN		3							3									199714	

QC Deliverables

None

Level 2

(Batch QC)

Level 3

Level 4

Other: _____

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Relinquished By: <u>Janna Peeryler</u>	Date: <u>2/5/02</u>	Time: <u>17:00</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>2/6</u>	Time: <u>9:20</u>

Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N

Fax COC to
Method of Shipment: Knoxville Office

Fax # (865) 693-1111

TestAmerica

INCORPORATED

12/14/02

MACTEC ENGINEERING AND CONSULT 4997

RICK RYAN/JANNA PEEVLER

1400 CENTERPOINT BLVD, STE. 158

KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 312028.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Page 1

Sample Identification	Lab Number	Collection Date
-----	-----	-----
W-5 (DUP)	02-A199714	12/ 5/02
OB-07	02-A199715	12/ 5/02
TW-09	02-A199716	12/ 5/02
OB-09	02-A199717	12/ 5/02
W-5	02-A199718	12/ 5/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Roxanne L Connor

Report Date: 12/14/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

Laboratory Number: 02-A199714
 Sample ID: W-5 (DUP)
 Project: 51870.7
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
cis-1,2-Dichloroethene	0.0517	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
trans-1,2-Dichloroethene	0.00400	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	6:47	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	6:47	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	6:47	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	6:47	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Trichloroethene	0.843	mg/l	0.0100	10	12/10/02	1:08	C. Wani	8260B	5219
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199715
 Sample ID: OB-07
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 14:28
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	7:13	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	7:13	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199715

Sample ID: OB-07

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
Carbon Dioxide	ND	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.693	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	7.24	mg/l	0.100	1	12/ 6/02	21:07	A.Bamarni	353.2	9693
Sulfate	510.	mg/l	20.0	20	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	162.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	4.24	mg/l	1.00	1	12/ 8/02	20:52	L.Franklin	415.1	250
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	87.5	mg/l	5.00	5	12/ 9/02	23:47	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	91.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199716
 Sample ID: TW-09
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: OFRMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 8:38
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	7:38	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	7:38	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199716
Sample ID: TW-09
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
Carbon Dioxide	10.9	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.506	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	1.37	mg/l	0.100	1	12/ 6/02	21:08	A.Bamarni	353.2	9693
Sulfate	195.	mg/l	10.0	10	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	211.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	1.35	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	7.37	mg/l	1.00	1	12/ 9/02	22:52	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBPM	100.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199717
 Sample ID: OB-09
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: OFRMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 10:06
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	8:04	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	8:04	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199717
Sample ID: OB-09
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
Carbon Dioxide	18.2	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.430	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	12/ 6/02	21:09	A.Bamarni	353.2	9693
Sulfate	269.	mg/l	10.0	10	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	262.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	1.60	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	7.08	mg/l	1.00	1	12/ 9/02	22:52	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BPB	90.	80. - 128.
VOA Surr, DBPM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199718
 Sample ID: W-5
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 14:28
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	8:30	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	8:30	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199718
 Sample ID: W-5
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
Carbon Dioxide	26.2	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.659	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	2.50	mg/l	0.100	1	12/ 6/02	21:09	A.Bamarni	353.2	9693
Sulfate	82.0	mg/l	5.00	5	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	368.	mg/l	5.00	1	12/10/02	14:24	G. Baun	310.1	1520
Total Organic Carbon	ND	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/13/02	23:00	S. Prayter	376.1	1706
Chloride	14.9	mg/l	1.00	1	12/ 9/02	22:53	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	93.	80. - 128.
VOA Surr, DBFM	97.	81. - 121.

Sample report continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/ 6/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0481	0.0500	96	78. - 132.	5212	02-A199715
Chlorobenzene	mg/l	< 0.00100	0.0545	0.0500	109	79. - 124.	5212	02-A199715
1,1-Dichloroethene	mg/l	< 0.00100	0.0511	0.0500	102	68. - 141.	5212	02-A199715
Toluene	mg/l	< 0.0010	0.0534	0.0500	107	77. - 134.	5212	02-A199715
Trichloroethene	mg/l	0.0102	0.0572	0.0500	94	73. - 137.	5212	02-A199715
Tetrachloroethene	mg/l	< 0.00100	0.0536	0.0500	107	72. - 136.	5212	02-A199715
VOA Surr 1,2-DCA-d4	% Rec				104	73. - 133.	5212	
VOA Surr Toluene-d8	% Rec				100	80. - 121.	5212	
VOA Surr, 4-BFB	% Rec				98	80. - 128.	5212	
VOA Surr, DBFM	% Rec				93	81. - 121.	5212	

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	7.64	7.50	102	80 - 120	9693	02a199833
Sulfate	mg/l	82.0	187.	100.	105	80 - 120	382	02-A199718
Total Organic Carbon	mg/l	1.35	18.5	20.0	86	80 - 120	251	02-A199716
Sulfide	mg/l	< 1.000	19.10	20.00	96	80 - 120	9302	02-A199723
Sulfide	mg/l	1.000	19.10	20.00	90	80 - 120	1706	02-A201296
Chloride	mg/l	3.11	12.8	10.0	97	80 - 120	1154	02-A199178

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 3

Laboratory Receipt Date: 12/ 6/02

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Methane	mg/L	1.19	1.22	2.49	50	320
Ethene	mg/L	2.25	2.26	0.44	50	320
Ethane	mg/L	2.43	2.45	0.82	50	320

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	7.64	7.60	0.52	20	9693
Sulfate	mg/l	187.	188.	0.53	20	382
Total Organic Carbon	mg/l	33.4	33.3	0.30	20	250
Total Organic Carbon	mg/l	18.5	18.1	2.19	20	251
Sulfide	mg/l	19.10	18.60	2.65	20	9302
Sulfide	mg/l	19.10	19.00	0.52	20	1706
Chloride	mg/l	12.8	12.8	0.00	20	1154

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.218	87	60 - 154	5212
Benzene	mg/l	0.0500	0.0445	89	78 - 127	5212
Bromobenzene	mg/l	0.0500	0.0499	100	80 - 120	5212
Bromochloromethane	mg/l	0.0500	0.0493	99	66 - 137	5212
Bromoform	mg/l	0.0500	0.0510	102	66 - 129	5212
Bromomethane	mg/l	0.0500	0.0559	112	47 - 163	5212
2-Butanone	mg/l	0.250	0.216	86	75 - 140	5212

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 6/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Hexachlorobutadiene	mg/l	0.0500	0.0577	115	59 - 126	5212
2-Hexanone	mg/l	0.250	0.250	100	71 - 142	5212
Isopropylbenzene	mg/l	0.0500	0.0519	104	78 - 123	5212
4-Isopropyltoluene	mg/l	0.0500	0.0540	108	73 - 125	5212
4-Methyl-2-pentanone	mg/l	0.250	0.227	91	71 - 141	5212
Methylene chloride	mg/l	0.0500	0.0479	96	70 - 140	5212
Naphthalene	mg/l	0.0500	0.0463	93	52 - 140	5212
n-Propylbenzene	mg/l	0.0500	0.0540	108	75 - 125	5212
Styrene	mg/l	0.0500	0.0538	108	82 - 122	5212
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0581	116	85 - 123	5212
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0472	94	74 - 133	5212
Tetrachloroethene	mg/l	0.0500	0.0487	97	76 - 123	5212
Toluene	mg/l	0.0500	0.0476	95	78 - 127	5212
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0580	116	59 - 132	5212
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0583	117	60 - 133	5212
1,1,1-Trichloroethane	mg/l	0.0500	0.0513	103	74 - 128	5212
1,1,2-Trichloroethane	mg/l	0.0500	0.0482	96	85 - 125	5212
Trichloroethene	mg/l	0.0500	0.0444	89	78 - 125	5212
Trichloroethene	mg/l	0.0500	0.0455	91	78 - 125	5219
1,2,3-Trichloropropane	mg/l	0.0500	0.0466	93	75 - 130	5212
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0478	96	77 - 122	5212
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0555	111	75 - 125	5212
Vinyl chloride	mg/l	0.0500	0.0459	92	61 - 140	5212
Xylenes (Total)	mg/l	0.150	0.166	111	77 - 126	5212
Bromodichloromethane	mg/l	0.0500	0.0511	102	79 - 126	5212
Trichlorofluoromethane	mg/l	0.0500	0.0487	97	60 - 140	5212
Methane	mg/L	1.33	1.27	95	78 - 120	320
Ethene	mg/L	2.32	2.32	100	76 - 108	320
Ethane	mg/L	2.50	2.52	101	77 - 111	320

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 6/02

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Sulfate	mg/l	269.	280.	4.01	15.	382	02-A199717
Chloride	mg/l	87.0	87.0	0.00	15.	1154	02-A199948

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

VOA PARAMETERS

Acetone	< 0.00470	mg/l	5212	12/ 8/02	6:22
Benzene	< 0.0005	mg/l	5212	12/ 8/02	6:22
Bromobenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
Bromochloromethane	< 0.00030	mg/l	5212	12/ 8/02	6:22
Bromoform	< 0.00060	mg/l	5212	12/ 8/02	6:22
Bromomethane	< 0.00060	mg/l	5212	12/ 8/02	6:22
2-Butanone	< 0.00310	mg/l	5212	12/ 8/02	6:22
n-Butylbenzene	< 0.00010	mg/l	5212	12/ 8/02	6:22
sec-Butylbenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
t-Butylbenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
Carbon disulfide	< 0.00020	mg/l	5212	12/ 8/02	6:22
Carbon tetrachloride	< 0.00040	mg/l	5212	12/ 8/02	6:22
Chlorobenzene	< 0.00020	mg/l	5212	12/ 8/02	6:22
Chloroethane	< 0.00100	mg/l	5212	12/ 8/02	6:22
Chloroform	< 0.00080	mg/l	5212	12/ 8/02	6:22
Chloromethane	< 0.00070	mg/l	5212	12/ 8/02	6:22
2-Chlorotoluene	< 0.00040	mg/l	5212	12/ 8/02	6:22
4-Chlorotoluene	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	5212	12/ 8/02	6:22
Dibromochloromethane	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,2-Dibromoethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
Dibromomethane	< 0.00090	mg/l	5212	12/ 8/02	6:22
1,2-Dichlorobenzene	< 0.00020	mg/l	5212	12/ 8/02	6:22

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 9

Laboratory Receipt Date: 12/ 6/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
1,1,2-Trichloroethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
Trichloroethene	< 0.00040	mg/l	5212	12/ 8/02	6:22
Trichloroethene	< 0.00040	mg/l	5219	12/ 9/02	19:08
1,2,3-Trichloropropane	< 0.00060	mg/l	5212	12/ 8/02	6:22
1,2,4-Trimethylbenzene	< 0.0003	mg/l	5212	12/ 8/02	6:22
1,3,5-Trimethylbenzene	< 0.00100	mg/l	5212	12/ 8/02	6:22
Vinyl chloride	< 0.00050	mg/l	5212	12/ 8/02	6:22
Xylenes (Total)	< 0.0009	mg/l	5212	12/ 8/02	6:22
Bromodichloromethane	< 0.00030	mg/l	5212	12/ 8/02	6:22
Trichlorofluoromethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
VOA Surr 1,2-DCA-d4	104.	% Rec	5212	12/ 8/02	6:22
VOA Surr 1,2-DCA-d4	108.	% Rec	5219	12/ 9/02	19:08
VOA Surr Toluene-d8	100.	% Rec	5212	12/ 8/02	6:22
VOA Surr Toluene-d8	98.	% Rec	5219	12/ 9/02	19:08
VOA Surr, 4-BFB	93.	% Rec	5212	12/ 8/02	6:22
VOA Surr, 4-BFB	93.	% Rec	5219	12/ 9/02	19:08
VOA Surr, DBFM	98.	% Rec	5212	12/ 8/02	6:22
VOA Surr, DBFM	97.	% Rec	5219	12/ 9/02	19:08

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	9693	12/ 6/02	20:57
Sulfate	< 1.00	mg/l	382	12/11/02	12:02
Total Organic Carbon	< 1.00	mg/l	250	12/ 8/02	20:52
Total Organic Carbon	< 1.00	mg/l	251	12/ 9/02	4:12
Sulfide	< 1.000	mg/l	9302	12/ 9/02	15:15
Sulfide	< 1.000	mg/l	1706	12/13/02	23:00

Project QC continued . . .

December 6, 2002
Analytical Data

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.8182 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Peewler

Sampler Signature:

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Reyer

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

[illegible]

Fax # (865) 693-4723

TestAmerica

INCORPORATED

12/14/02

MACTEC ENGINEERING AND CONSULT 4997
RICK RYAN/JANNA PEEVLER
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 OFRMER TAYLOR INSTRUMENT. The Laboratory Project number is 312028.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
-----	-----	-----
W-5 (DUP)	02-A199714	12/ 5/02
OB-07	02-A199715	12/ 5/02
TW-09	02-A199716	12/ 5/02
OB-09	02-A199717	12/ 5/02
W-5	02-A199718	12/ 5/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L Connor

Report Date: 12/14/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199714
 Sample ID: W-5(DUP)
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 14:39
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	6:47	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	6:47	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	6:47	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199714
Sample ID: W-5 (DUP)
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
cis-1,2-Dichloroethene	0.0517	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
trans-1,2-Dichloroethene	0.00400	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	6:47	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	6:47	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	6:47	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	6:47	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Trichloroethene	0.843	mg/l	0.0100	10	12/10/02	1:08	C. Wani	8260B	5219
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	6:47	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199714
Sample ID: W-5 (DUP)
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	6:47	C. Wani	8260B	5212

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBFM	100.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199715
 Sample ID: OB-07
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 14:28
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	7:13	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	7:13	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199715

Sample ID: OB-07

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	7:13	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	7:13	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	7:13	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	7:13	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Trichloroethene	0.0102	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	7:13	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199715
 Sample ID: OB-07
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:13	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
Carbon Dioxide	ND	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:32	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.693	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	7.24	mg/l	0.100	1	12/ 6/02	21:07	A.Bamarni	353.2	9693
Sulfate	510.	mg/l	20.0	20	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	162.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	4.24	mg/l	1.00	1	12/ 8/02	20:52	L.Franklin	415.1	250
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	87.5	mg/l	5.00	5	12/ 9/02	23:47	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	91.	80. - 128.
VOA Surr, DBFM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199715
Sample ID: OB-07
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

M = Method RSK175 modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199716
 Sample ID: TW-09
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: OFRMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 8:38
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	7:38	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	7:38	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199716
Sample ID: TW-09
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	7:38	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	7:38	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	7:38	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	7:38	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Trichloroethene	0.0380	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	7:38	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199716

Sample ID: TW-09

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	7:38	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
Carbon Dioxide	10.9	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:38	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.506	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	1.37	mg/l	0.100	1	12/ 6/02	21:08	A.Bamarni	353.2	9693
Sulfate	195.	mg/l	10.0	10	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	211.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	1.35	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	7.37	mg/l	1.00	1	12/ 9/02	22:52	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBPM	100.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199716
Sample ID: TW-09
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

M = Method RSK175 modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199717
 Sample ID: OB-09
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: OFRMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 10:06
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	8:04	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	8:04	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199717
Sample ID: OB-09
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
cis-1,2-Dichloroethene	0.00920	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	8:04	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	8:04	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	8:04	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	8:04	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Trichloroethene	0.0885	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	8:04	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199717
Sample ID: OB-09
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:04	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
Carbon Dioxide	18.2	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:51	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.430	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	ND	mg/l	0.100	1	12/ 6/02	21:09	A.Bamarni	353.2	9693
Sulfate	269.	mg/l	10.0	10	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	262.	mg/l	5.00	1	12/ 6/02	15:01	G. Baun	310.1	9002
Total Organic Carbon	1.60	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/ 9/02	15:15	B. Yanna	376.1	9302
Chloride	7.08	mg/l	1.00	1	12/ 9/02	22:52	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	101.	80. - 121.
VOA Surr, 4-BFB	90.	80. - 128.
VOA Surr, DBPM	98.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199717
Sample ID: OB-09
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.
M = Method RSK175 modified for use with Headspace analyzer.
Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
 RICK RYAN/JANNA PEEVLER
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 02-A199718
 Sample ID: W-5
 Sample Type: Ground water
 Site ID:

Project: 51870.7
 Project Name: OFRMER TAYLOR INSTRUMENT
 Sampler: JANNA PEEVLER

Date Collected: 12/ 5/02
 Time Collected: 14:28
 Date Received: 12/ 6/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/ 8/02	8:30	C. Wani	8260B	5212
Benzene	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromoform	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2-Butanone	ND	mg/l	0.0250	1	12/ 8/02	8:30	C. Wani	8260B	5212
n-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
sec-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
t-Butylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Carbon disulfide	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Carbon tetrachloride	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloroform	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Chloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
4-Chlorotoluene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dibromochloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dibromomethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199718
Sample ID: W-5
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
cis-1,2-Dichloroethene	0.0520	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
trans-1,2-Dichloroethene	0.00360	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Ethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
2-Hexanone	ND	mg/l	0.00500	1	12/ 8/02	8:30	C. Wani	8260B	5212
Isopropylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/ 8/02	8:30	C. Wani	8260B	5212
Methylene chloride	ND	mg/l	0.00250	1	12/ 8/02	8:30	C. Wani	8260B	5212
Naphthalene	ND	mg/l	0.00250	1	12/ 8/02	8:30	C. Wani	8260B	5212
n-Propylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Styrene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Tetrachloroethene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Toluene	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Trichloroethene	0.777	mg/l	0.0100	10	12/10/02	1:34	C. Wani	8260B	5219
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Vinyl chloride	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
Xylenes (Total)	ND	mg/l	0.0010	1	12/ 8/02	8:30	C. Wani	8260B	5212
Bromodichloromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199718
Sample ID: W-5
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/ 8/02	8:30	C. Wani	8260B	5212
MISCELLANEOUS GC PARAMETERS									
Methane	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
Carbon Dioxide	26.2	mg/l	3.0	1	12/ 7/02	12:40	T. Beverly	SM4500CO2C	9001
Ethene	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
Ethane	ND	mg/L	0.026	1	12/10/02	11:54	K. Burritt	RSK175M	320
METALS									
Ferrous Iron	0.659	mg/l	0.100	1	12/ 6/02	19:05	A.Bamarni	3500D	8997
MISCELLANEOUS CHEMISTRY									
Nitrate-N as N	2.50	mg/l	0.100	1	12/ 6/02	21:09	A.Bamarni	353.2	9693
Sulfate	82.0	mg/l	5.00	5	12/11/02	12:02	M.Shockley	375.4	382
Alkalinity as CaCO3	368.	mg/l	5.00	1	12/10/02	14:24	G. Baun	310.1	1520
Total Organic Carbon	ND	mg/l	1.00	1	12/ 9/02	4:12	L.Franklin	415.1	251
Sulfide	ND	mg/l	1.000	1	12/13/02	23:00	S. Prayter	376.1	1706
Chloride	14.9	mg/l	1.00	1	12/ 9/02	22:53	A.Bamarni	325.2	1154

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	93.	80. - 128.
VOA Surr, DBFM	97.	81. - 121.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A199718
Sample ID: W-5
Project: 51870.7
Page 4

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

M = Method RSK175 modified for use with Headspace analyzer.

Sample for Ferrous Iron analysis received outside method
prescribed holding time.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/ 6/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0481	0.0500	96	78. - 132.	5212	02-A199715
Chlorobenzene	mg/l	< 0.00100	0.0545	0.0500	109	79. - 124.	5212	02-A199715
1,1-Dichloroethene	mg/l	< 0.00100	0.0511	0.0500	102	68. - 141.	5212	02-A199715
Toluene	mg/l	< 0.0010	0.0534	0.0500	107	77. - 134.	5212	02-A199715
Trichloroethene	mg/l	0.0102	0.0572	0.0500	94	73. - 137.	5212	02-A199715
Tetrachloroethene	mg/l	< 0.00100	0.0536	0.0500	107	72. - 136.	5212	02-A199715
VOA Surr 1,2-DCA-d4	% Rec				104	73. - 133.	5212	
VOA Surr Toluene-d8	% Rec				100	80. - 121.	5212	
VOA Surr, 4-BFB	% Rec				98	80. - 128.	5212	
VOA Surr, DBFM	% Rec				93	81. - 121.	5212	

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.100	7.64	7.50	102	80 - 120	9693	02a199833
Sulfate	mg/l	82.0	187.	100.	105	80 - 120	382	02-A199718
Total Organic Carbon	mg/l	1.35	18.5	20.0	86	80 - 120	251	02-A199716
Sulfide	mg/l	< 1.000	19.10	20.00	96	80 - 120	9302	02-A199723
Sulfide	mg/l	1.000	19.10	20.00	90	80 - 120	1706	02-A201296
Chloride	mg/l	3.11	12.8	10.0	97	80 - 120	1154	02-A199178

ject QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 2

Laboratory Receipt Date: 12/ 6/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Methane	mg/L	< 0.026	1.19	1.33	89	40 - 140	320	02-A198869
Ethene	mg/L	< 0.026	2.25	2.32	97	40 - 140	320	02-A198869
Ethane	mg/L	< 0.026	2.43	2.50	97	40 - 140	320	02-A19

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0481	0.0486	1.03	15.	5212
Chlorobenzene	mg/l	0.0545	0.0548	0.55	16.	5212
1,1-Dichloroethene	mg/l	0.0511	0.0521	1.94	19.	5212
Toluene	mg/l	0.0534	0.0546	2.22	16.	5212
Trichloroethene	mg/l	0.0572	0.0576	0.70	20.	5212
Tetrachloroethene	mg/l	0.0536	0.0554	3.30	23.	5212
VOA Surr 1,2-DCA-d4	% Rec		104.			5212
VOA Surr Toluene-d8	% Rec		101.			5212
VOA Surr, 4-BFB	% Rec		98.			5212
VOA Surr, DBFM	% Rec		94.			5212

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 3

Laboratory Receipt Date: 12/ 6/02

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Methane	mg/L	1.19	1.22	2.49	50	320
Ethene	mg/L	2.25	2.26	0.44	50	320
Ethane	mg/L	2.43	2.45	0.82	50	320

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Nitrate-N as N	mg/l	7.64	7.60	0.52	20	9693
Sulfate	mg/l	187.	188.	0.53	20	382
Total Organic Carbon	mg/l	33.4	33.3	0.30	20	250
Total Organic Carbon	mg/l	18.5	18.1	2.19	20	251
Sulfide	mg/l	19.10	18.60	2.65	20	9302
Sulfide	mg/l	19.10	19.00	0.52	20	1706
Chloride	mg/l	12.8	12.8	0.00	20	1154

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

VOA PARAMETERS

Acetone	mg/l	0.250	0.218	87	60 - 154	5212
Benzene	mg/l	0.0500	0.0445	89	78 - 127	5212
Bromobenzene	mg/l	0.0500	0.0499	100	80 - 120	5212
Bromochloromethane	mg/l	0.0500	0.0493	99	66 - 137	5212
Bromoform	mg/l	0.0500	0.0510	102	66 - 129	5212
Bromomethane	mg/l	0.0500	0.0559	112	47 - 163	5212
2-Butanone	mg/l	0.250	0.216	86	75 - 140	5212

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 4

Laboratory Receipt Date: 12/ 6/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
n-Butylbenzene	mg/l	0.0500	0.0477	95	61 - 131	5212
sec-Butylbenzene	mg/l	0.0500	0.0480	96	72 - 124	5212
t-Butylbenzene	mg/l	0.0500	0.0487	97	74 - 123	5212
Carbon disulfide	mg/l	0.0500	0.0474	95	67 - 138	5212
Carbon tetrachloride	mg/l	0.0500	0.0540	108	69 - 132	5212
Chlorobenzene	mg/l	0.0500	0.0511	102	81 - 120	5212
Chloroethane	mg/l	0.0500	0.0444	89	65 - 134	5212
Chloroform	mg/l	0.0500	0.0480	96	77 - 125	5212
Chloromethane	mg/l	0.0500	0.0476	95	43 - 142	5212
2-Chlorotoluene	mg/l	0.0500	0.0518	104	76 - 126	5212
4-Chlorotoluene	mg/l	0.0500	0.0530	106	79 - 123	5212
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0456	91	64 - 132	5212
Dibromochloromethane	mg/l	0.0500	0.0592	118	78 - 124	5212
1,2-Dibromoethane	mg/l	0.0500	0.0512	102	79 - 126	5212
Dibromomethane	mg/l	0.0500	0.0462	92	75 - 131	5212
1,2-Dichlorobenzene	mg/l	0.0500	0.0546	109	80 - 120	5212
1,3-Dichlorobenzene	mg/l	0.0500	0.0542	108	79 - 120	5212
1,4-Dichlorobenzene	mg/l	0.0500	0.0514	103	78 - 118	5212
Dichlorodifluoromethane	mg/l	0.0500	0.0497	99	45 - 149	5212
1,1-Dichloroethane	mg/l	0.0500	0.0473	95	73 - 128	5212
1,2-Dichloroethane	mg/l	0.0500	0.0503	101	71 - 135	5212
1,1-Dichloroethene	mg/l	0.0500	0.0464	93	72 - 128	5212
cis-1,2-Dichloroethene	mg/l	0.0500	0.0477	95	76 - 127	5212
trans-1,2-Dichloroethene	mg/l	0.0500	0.0476	95	71 - 131	5212
1,2-Dichloropropane	mg/l	0.0500	0.0458	92	75 - 127	5212
1,3-Dichloropropane	mg/l	0.0500	0.0438	88	81 - 128	5212
2,2-Dichloropropane	mg/l	0.0500	0.0475	95	45 - 145	5212
1,1-Dichloropropene	mg/l	0.0500	0.0475	95	76 - 127	5212
cis-1,3-Dichloropropene	mg/l	0.0500	0.0500	100	72 - 131	5212
trans-1,3-Dichloropropene	mg/l	0.0500	0.0510	102	69 - 131	5212
Ethylbenzene	mg/l	0.0500	0.0538	108	78 - 125	5212

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 6/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Hexachlorobutadiene	mg/l	0.0500	0.0577	115	59 - 126	5212
2-Hexanone	mg/l	0.250	0.250	100	71 - 142	5212
Isopropylbenzene	mg/l	0.0500	0.0519	104	78 - 123	5212
4-Isopropyltoluene	mg/l	0.0500	0.0540	108	73 - 125	5212
4-Methyl-2-pentanone	mg/l	0.250	0.227	91	71 - 141	5212
Methylene chloride	mg/l	0.0500	0.0479	96	70 - 140	5212
Naphthalene	mg/l	0.0500	0.0463	93	52 - 140	5212
n-Propylbenzene	mg/l	0.0500	0.0540	108	75 - 125	5212
Styrene	mg/l	0.0500	0.0538	108	82 - 122	5212
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0581	116	85 - 123	5212
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0472	94	74 - 133	5212
Tetrachloroethene	mg/l	0.0500	0.0487	97	76 - 123	5212
Toluene	mg/l	0.0500	0.0476	95	78 - 127	5212
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0580	116	59 - 132	5212
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0583	117	60 - 133	5212
1,1,1-Trichloroethane	mg/l	0.0500	0.0513	103	74 - 128	5212
1,1,2-Trichloroethane	mg/l	0.0500	0.0482	96	85 - 125	5212
Trichloroethene	mg/l	0.0500	0.0444	89	78 - 125	5212
Trichloroethene	mg/l	0.0500	0.0455	91	78 - 125	5219
1,2,3-Trichloropropane	mg/l	0.0500	0.0466	93	75 - 130	5212
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0478	96	77 - 122	5212
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0555	111	75 - 125	5212
Vinyl chloride	mg/l	0.0500	0.0459	92	61 - 140	5212
Xylenes (Total)	mg/l	0.150	0.166	111	77 - 126	5212
Bromodichloromethane	mg/l	0.0500	0.0511	102	79 - 126	5212
Trichlorofluoromethane	mg/l	0.0500	0.0487	97	60 - 140	5212
Methane	mg/L	1.33	1.27	95	78 - 120	320
Ethene	mg/L	2.32	2.32	100	76 - 108	320
Ethane	mg/L	2.50	2.52	101	77 - 111	320

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 6

Laboratory Receipt Date: 12/ 6/02

VOA Surr 1,2-DCA-d4	% Rec	102	73 - 133	5212
VOA Surr 1,2-DCA-d4	% Rec	108	73 - 133	5219
VOA Surr Toluene-d8	% Rec	97	80 - 121	5212
VOA Surr Toluene-d8	% Rec	99	80 - 121	5219
VOA Surr, 4-BFB	% Rec	94	80 - 128	5212
VOA Surr, 4-BFB	% Rec	98	80 - 128	5219
VOA Surr, DBFM	% Rec	101	81 - 121	5212
VOA Surr, DBFM	% Rec	95	81 - 121	5219

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.27	95	78 - 120	320
Ethene	mg/L	2.32	2.32	100	76 - 108	320
Ethane	mg/L	2.50	2.52	101	77 - 111	320

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.50	100	90 - 110	9693
Sulfate	mg/l	25.0	25.5	102	90 - 110	382
Total Organic Carbon	mg/l	200.	204.	102	90 - 110	250
Total Organic Carbon	mg/l	200.	203.	102	90 - 110	251
Sulfide	mg/l	20.00	19.90	100	90 - 110	9302
Sulfide	mg/l	20.00	19.80	99	90 - 110	1706
Chloride	mg/l	10.0	9.74	97	90 - 110	1154

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 7

Laboratory Receipt Date: 12/ 6/02

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Sulfate	mg/l	269.	280.	4.01	15.	382	02-A199717
Chloride	mg/l	87.0	87.0	0.00	15.	1154	02-A199948

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

VOA PARAMETERS

Acetone	< 0.00470	mg/l	5212	12/ 8/02	6:22
Benzene	< 0.0005	mg/l	5212	12/ 8/02	6:22
Bromobenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
Bromochloromethane	< 0.00030	mg/l	5212	12/ 8/02	6:22
Bromoform	< 0.00060	mg/l	5212	12/ 8/02	6:22
Bromomethane	< 0.00060	mg/l	5212	12/ 8/02	6:22
2-Butanone	< 0.00310	mg/l	5212	12/ 8/02	6:22
n-Butylbenzene	< 0.00010	mg/l	5212	12/ 8/02	6:22
sec-Butylbenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
t-Butylbenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
Carbon disulfide	< 0.00020	mg/l	5212	12/ 8/02	6:22
Carbon tetrachloride	< 0.00040	mg/l	5212	12/ 8/02	6:22
Chlorobenzene	< 0.00020	mg/l	5212	12/ 8/02	6:22
Chloroethane	< 0.00100	mg/l	5212	12/ 8/02	6:22
Chloroform	< 0.00080	mg/l	5212	12/ 8/02	6:22
Chloromethane	< 0.00070	mg/l	5212	12/ 8/02	6:22
2-Chlorotoluene	< 0.00040	mg/l	5212	12/ 8/02	6:22
4-Chlorotoluene	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	5212	12/ 8/02	6:22
Dibromochloromethane	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,2-Dibromoethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
Dibromomethane	< 0.00090	mg/l	5212	12/ 8/02	6:22
1,2-Dichlorobenzene	< 0.00020	mg/l	5212	12/ 8/02	6:22

ject QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

Page: 8

Laboratory Receipt Date: 12/ 6/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,3-Dichlorobenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
1,4-Dichlorobenzene	< 0.00040	mg/l	5212	12/ 8/02	6:22
Dichlorodifluoromethane	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,1-Dichloroethane	< 0.00020	mg/l	5212	12/ 8/02	6:22
1,2-Dichloroethane	< 0.00060	mg/l	5212	12/ 8/02	6:22
1,1-Dichloroethene	< 0.00060	mg/l	5212	12/ 8/02	6:22
cis-1,2-Dichloroethene	< 0.00060	mg/l	5212	12/ 8/02	6:22
trans-1,2-Dichloroethene	< 0.00050	mg/l	5212	12/ 8/02	6:22
1,2-Dichloropropane	< 0.00040	mg/l	5212	12/ 8/02	6:22
1,3-Dichloropropane	< 0.00040	mg/l	5212	12/ 8/02	6:22
2,2-Dichloropropane	< 0.00040	mg/l	5212	12/ 8/02	6:22
1,1-Dichloropropene	< 0.00050	mg/l	5212	12/ 8/02	6:22
cis-1,3-Dichloropropene	< 0.00030	mg/l	5212	12/ 8/02	6:22
trans-1,3-Dichloropropene	< 0.00050	mg/l	5212	12/ 8/02	6:22
Ethylbenzene	< 0.0003	mg/l	5212	12/ 8/02	6:22
Hexachlorobutadiene	< 0.00080	mg/l	5212	12/ 8/02	6:22
2-Hexanone	< 0.00420	mg/l	5212	12/ 8/02	6:22
Isopropylbenzene	< 0.00040	mg/l	5212	12/ 8/02	6:22
4-Isopropyltoluene	< 0.00060	mg/l	5212	12/ 8/02	6:22
4-Methyl-2-pentanone	< 0.00490	mg/l	5212	12/ 8/02	6:22
Methylene chloride	< 0.00240	mg/l	5212	12/ 8/02	6:22
Naphthalene	< 0.00120	mg/l	5212	12/ 8/02	6:22
n-Propylbenzene	< 0.00030	mg/l	5212	12/ 8/02	6:22
Styrene	< 0.00040	mg/l	5212	12/ 8/02	6:22
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	5212	12/ 8/02	6:22
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
Tetrachloroethene	< 0.00040	mg/l	5212	12/ 8/02	6:22
Toluene	< 0.0006	mg/l	5212	12/ 8/02	6:22
1,2,3-Trichlorobenzene	0.00170	mg/l	5212	12/ 8/02	6:22
1,2,4-Trichlorobenzene	< 0.00060	mg/l	5212	12/ 8/02	6:22
1,1,1-Trichloroethane	< 0.00070	mg/l	5212	12/ 8/02	6:22

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 6/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,2-Trichloroethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
Trichloroethene	< 0.00040	mg/l	5212	12/ 8/02	6:22
Trichloroethene	< 0.00040	mg/l	5219	12/ 9/02	19:08
1,2,3-Trichloropropane	< 0.00060	mg/l	5212	12/ 8/02	6:22
1,2,4-Trimethylbenzene	< 0.0003	mg/l	5212	12/ 8/02	6:22
1,3,5-Trimethylbenzene	< 0.00100	mg/l	5212	12/ 8/02	6:22
Vinyl chloride	< 0.00050	mg/l	5212	12/ 8/02	6:22
Xylenes (Total)	< 0.0009	mg/l	5212	12/ 8/02	6:22
Bromodichloromethane	< 0.00030	mg/l	5212	12/ 8/02	6:22
Trichlorofluoromethane	< 0.00040	mg/l	5212	12/ 8/02	6:22
VOA Surr 1,2-DCA-d4	104.	% Rec	5212	12/ 8/02	6:22
VOA Surr 1,2-DCA-d4	108.	% Rec	5219	12/ 9/02	19:08
VOA Surr Toluene-d8	100.	% Rec	5212	12/ 8/02	6:22
VOA Surr Toluene-d8	98.	% Rec	5219	12/ 9/02	19:08
VOA Surr, 4-BFB	93.	% Rec	5212	12/ 8/02	6:22
VOA Surr, 4-BFB	93.	% Rec	5219	12/ 9/02	19:08
VOA Surr, DBFM	98.	% Rec	5212	12/ 8/02	6:22
VOA Surr, DBFM	97.	% Rec	5219	12/ 9/02	19:08

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	9693	12/ 6/02	20:57
Sulfate	< 1.00	mg/l	382	12/11/02	12:02
Total Organic Carbon	< 1.00	mg/l	250	12/ 8/02	20:52
Total Organic Carbon	< 1.00	mg/l	251	12/ 9/02	4:12
Sulfide	< 1.000	mg/l	9302	12/ 9/02	15:15
Sulfide	< 1.000	mg/l	1706	12/13/02	23:00

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: OFRMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 6/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Chloride	< 1.00	mg/l	1154	12/ 9/02	22:43

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

MISC PARAMETERS

Methane	< 0.026	mg/L	320	12/10/02	9:44
Ethene	< 0.026	mg/L	320	12/10/02	9:44
Ethane	< 0.026	mg/L	320	12/10/02	9:44

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 312028

December 6, 2002
Analytical Data

TestAmerica

INCORPORATED

12/16/02

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 57870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 312349.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
-----	-----	-----
W-4	02-A201302	12/ 6/02
TW-13	02-A201303	12/ 6/02
OB-06	02-A201304	12/ 6/02
BR-08	02-A201305	12/ 6/02
BR-17	02-A201306	12/ 6/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Paul E. Lane, Jr.

Report Date: 12/16/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A201302

Sample ID: W-4

Sample Type: Ground water

Site ID:

Project: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 6/02

Time Collected: 8:45

Date Received: 12/ 9/02

Time Received: 9:00

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/14/02	20:09	J.Haley	8260B	6609
Benzene	ND	mg/l	0.0010	1	12/14/02	20:09	J.Haley	8260B	6609
Bromobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Bromochloromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Bromoform	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Bromomethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
2-Butanone	ND	mg/l	0.0250	1	12/14/02	20:09	J.Haley	8260B	6609
n-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
sec-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
t-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Carbon disulfide	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Carbon tetrachloride	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Chlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Chloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Chloroform	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Chloromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
2-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
4-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/14/02	20:09	J.Haley	8260B	6609
Dibromochloromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Dibromomethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201302
Sample ID: W-4
Project: 57870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Ethylbenzene	ND	mg/l	0.0010	1	12/14/02	20:09	J.Haley	8260B	6609
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
2-Hexanone	ND	mg/l	0.00500	1	12/14/02	20:09	J.Haley	8260B	6609
Isopropylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/14/02	20:09	J.Haley	8260B	6609
Methylene chloride	ND	mg/l	0.00250	1	12/14/02	20:09	J.Haley	8260B	6609
Naphthalene	ND	mg/l	0.00250	1	12/14/02	20:09	J.Haley	8260B	6609
n-Propylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Styrene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Tetrachloroethene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Toluene	ND	mg/l	0.0010	1	12/14/02	20:09	J.Haley	8260B	6609
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Trichloroethene	0.00100	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/14/02	20:09	J.Haley	8260B	6609
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Vinyl chloride	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609
Xylenes (Total)	ND	mg/l	0.0010	1	12/14/02	20:09	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201302
Sample ID: W-4
Project: 57870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/14/02	20:09	J.Haley	8260B	6609

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	120.	73. - 133.
VOA Surr Toluene-d8	91.	80. - 121.
VOA Surr, 4-BFB	85.	80. - 128.
VOA Surr, DBFM	112.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A201303

Sample ID: TW-13

Sample Type: Ground water

Site ID:

Project: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 6/02

Time Collected: 9:24

Date Received: 12/ 9/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/14/02	20:39	J.Haley	8260B	6609
Benzene	ND	mg/l	0.0010	1	12/14/02	20:39	J.Haley	8260B	6609
Bromobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Bromochloromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Bromoform	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Bromomethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
2-Butanone	ND	mg/l	0.0250	1	12/14/02	20:39	J.Haley	8260B	6609
n-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
sec-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
t-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Carbon disulfide	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Carbon tetrachloride	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Chlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Chloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Chloroform	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Chloromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
2-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
4-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/14/02	20:39	J.Haley	8260B	6609
Dibromochloromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Dibromomethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201303

Sample ID: TW-13

Project: 57870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Ethylbenzene	ND	mg/l	0.0010	1	12/14/02	20:39	J.Haley	8260B	6609
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
2-Hexanone	ND	mg/l	0.00500	1	12/14/02	20:39	J.Haley	8260B	6609
Isopropylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/14/02	20:39	J.Haley	8260B	6609
Methylene chloride	ND	mg/l	0.00250	1	12/14/02	20:39	J.Haley	8260B	6609
Naphthalene	ND	mg/l	0.00250	1	12/14/02	20:39	J.Haley	8260B	6609
n-Propylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Styrene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Tetrachloroethene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Toluene	ND	mg/l	0.0010	1	12/14/02	20:39	J.Haley	8260B	6609
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Trichloroethene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/14/02	20:39	J.Haley	8260B	6609
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Vinyl chloride	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609
Xylenes (Total)	ND	mg/l	0.0010	1	12/14/02	20:39	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201303
 Sample ID: TW-13
 Project: 57870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/14/02	20:39	J.Haley	8260B	6609

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	128.	73. - 133.
VOA Surr Toluene-d8	96.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBFM	124. #	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A201304

Sample ID: OB-06

Sample Type: Ground water

Site ID:

Project: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 6/02

Time Collected: 10:42

Date Received: 12/ 9/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/14/02	21:09	J.Haley	8260B	6609
Benzene	ND	mg/l	0.0010	1	12/14/02	21:09	J.Haley	8260B	6609
Bromobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Bromochloromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Bromoform	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Bromomethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
2-Butanone	ND	mg/l	0.0250	1	12/14/02	21:09	J.Haley	8260B	6609
n-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
sec-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
t-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Carbon disulfide	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Carbon tetrachloride	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Chlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Chloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Chloroform	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Chloromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
2-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
4-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/14/02	21:09	J.Haley	8260B	6609
Dibromochloromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Dibromomethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201304
Sample ID: OB-06
Project: 57870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
cis-1,2-Dichloroethene	0.00150	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Ethylbenzene	ND	mg/l	0.0010	1	12/14/02	21:09	J.Haley	8260B	6609
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
2-Hexanone	ND	mg/l	0.00500	1	12/14/02	21:09	J.Haley	8260B	6609
Isopropylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/14/02	21:09	J.Haley	8260B	6609
Methylene chloride	ND	mg/l	0.00250	1	12/14/02	21:09	J.Haley	8260B	6609
Naphthalene	ND	mg/l	0.00250	1	12/14/02	21:09	J.Haley	8260B	6609
n-Propylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Styrene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Tetrachloroethene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Toluene	ND	mg/l	0.0010	1	12/14/02	21:09	J.Haley	8260B	6609
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Trichloroethene	0.100	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/14/02	21:09	J.Haley	8260B	6609
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Vinyl chloride	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609
Xylenes (Total)	ND	mg/l	0.0010	1	12/14/02	21:09	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201304
 Sample ID: OB-06
 Project: 57870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/14/02	21:09	J.Haley	8260B	6609

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	126.	73. - 133.
VOA Surr Toluene-d8	95.	80. - 121.
VOA Surr, 4-BFB	90.	80. - 128.
VOA Surr, DBFM	118.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A201305

Sample ID: BR-08

Sample Type: Ground water

Site ID:

Project: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 6/02

Time Collected: 13:15

Date Received: 12/ 9/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.248	mg/l	0.0250	1	12/14/02	21:38	J.Haley	8260B	6609
Benzene	0.0036	mg/l	0.0010	1	12/14/02	21:38	J.Haley	8260B	6609
Bromobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Bromochloromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Bromoform	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Bromomethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
2-Butanone	ND	mg/l	0.0250	1	12/14/02	21:38	J.Haley	8260B	6609
n-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
sec-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
t-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Carbon disulfide	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Carbon tetrachloride	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Chlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Chloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Chloroform	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Chloromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
2-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
4-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/14/02	21:38	J.Haley	8260B	6609
Dibromochloromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Dibromomethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201305
Sample ID: BR-08
Project: 57870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1-Dichloroethene	0.00120	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
cis-1,2-Dichloroethene	0.222	mg/l	0.00500	5	12/16/02	14:34	J.Haley	8260B	6613
trans-1,2-Dichloroethene	0.00330	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Ethylbenzene	0.0022	mg/l	0.0010	1	12/14/02	21:38	J.Haley	8260B	6609
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
2-Hexanone	0.00730	mg/l	0.00500	1	12/14/02	21:38	J.Haley	8260B	6609
Isopropylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/14/02	21:38	J.Haley	8260B	6609
Methylene chloride	ND	mg/l	0.00250	1	12/14/02	21:38	J.Haley	8260B	6609
Naphthalene	ND	mg/l	0.00250	1	12/14/02	21:38	J.Haley	8260B	6609
n-Propylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Styrene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Tetrachloroethene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Toluene	0.0109	mg/l	0.0010	1	12/14/02	21:38	J.Haley	8260B	6609
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Trichloroethene	0.398	mg/l	0.00500	5	12/16/02	14:34	J.Haley	8260B	6613
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
1,2,4-Trimethylbenzene	0.0022	mg/l	0.0010	1	12/14/02	21:38	J.Haley	8260B	6609
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Vinyl chloride	0.00450	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609
Xylenes (Total)	0.0077	mg/l	0.0010	1	12/14/02	21:38	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201305
 Sample ID: BR-08
 Project: 57870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/14/02	21:38	J.Haley	8260B	6609

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	127.	73. - 133.
VOA Surr Toluene-d8	93.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBFM	119.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A201306

Sample ID: BR-17

Sample Type: Ground water

Site ID:

Project: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 6/02

Time Collected: 14:14

Date Received: 12/ 9/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0250	1	12/14/02	22:08	J.Haley	8260B	6609
Benzene	ND	mg/l	0.0010	1	12/14/02	22:08	J.Haley	8260B	6609
Bromobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Bromochloromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Bromoform	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Bromomethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
2-Butanone	ND	mg/l	0.0250	1	12/14/02	22:08	J.Haley	8260B	6609
n-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
sec-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
t-Butylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Carbon disulfide	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Carbon tetrachloride	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Chlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Chloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Chloroform	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Chloromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
2-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
4-Chlorotoluene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/14/02	22:08	J.Haley	8260B	6609
Dibromochloromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2-Dibromoethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Dibromomethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Dichlorodifluoromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201306

Sample ID: BR-17

Project: 57870.7

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2-Dichloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1-Dichloroethene	0.00520	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
cis-1,2-Dichloroethene	0.204	mg/l	0.00500	5	12/16/02	15:03	J.Haley	8260B	6613
trans-1,2-Dichloroethene	0.0652	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,3-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
2,2-Dichloropropane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Ethylbenzene	ND	mg/l	0.0010	1	12/14/02	22:08	J.Haley	8260B	6609
Hexachlorobutadiene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
2-Hexanone	ND	mg/l	0.00500	1	12/14/02	22:08	J.Haley	8260B	6609
Isopropylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
4-Isopropyltoluene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
4-Methyl-2-pentanone	ND	mg/l	0.00500	1	12/14/02	22:08	J.Haley	8260B	6609
Methylene chloride	ND	mg/l	0.00250	1	12/14/02	22:08	J.Haley	8260B	6609
Naphthalene	ND	mg/l	0.00250	1	12/14/02	22:08	J.Haley	8260B	6609
n-Propylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Styrene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Tetrachloroethene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Toluene	ND	mg/l	0.0010	1	12/14/02	22:08	J.Haley	8260B	6609
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Trichloroethene	0.186	mg/l	0.00500	5	12/16/02	15:03	J.Haley	8260B	6613
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1	12/14/02	22:08	J.Haley	8260B	6609
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
Vinyl chloride	0.0632	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609
xylenes (Total)	ND	mg/l	0.0010	1	12/14/02	22:08	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A201306
Sample ID: BR-17
Project: 57870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1	12/14/02	22:08	J.Haley	8260B	6609

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	126.	73. - 133.
VOA Surr Toluene-d8	96.	80. - 121.
VOA Surr, 4-BFB	96.	80. - 128.
VOA Surr, DBFM	117.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/ 9/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0582	0.0500	116	78. - 132.	6609	02-A201302
Chlorobenzene	mg/l	< 0.00100	0.0570	0.0500	114	79. - 124.	6609	02-A201302
1,1-Dichloroethene	mg/l	< 0.00100	0.0524	0.0500	105	68. - 141.	6609	02-A201302
Toluene	mg/l	< 0.0010	0.0472	0.0500	94	77. - 134.	6609	02-A201302
Trichloroethene	mg/l	0.00100	0.0624	0.0500	123	73. - 137.	6609	02-A201302
Tetrachloroethene	mg/l	< 0.00100	0.0576	0.0500	115	72. - 136.	6609	02-A201302
VOA Surr 1,2-DCA-d4	% Rec				128	73. - 133.	6609	
VOA Surr Toluene-d8	% Rec				89	80. - 121.	6609	
VOA Surr, 4-BFB	% Rec				91	80. - 128.	6609	
VOA Surr, DBFM	% Rec				120	81. - 121.	6609	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0582	0.0574	1.38	15.	6609
Chlorobenzene	mg/l	0.0570	0.0555	2.67	16.	6609
1,1-Dichloroethene	mg/l	0.0524	0.0535	2.08	19.	6609
Toluene	mg/l	0.0472	0.0472	0.00	16.	6609
Trichloroethene	mg/l	0.0624	0.0613	1.78	20.	6609
Tetrachloroethene	mg/l	0.0576	0.0589	2.23	23.	6609

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 2

Laboratory Receipt Date: 12/ 9/02

VOA Surr 1,2-DCA-d4	% Rec	127.	6609
VOA Surr Toluene-d8	% Rec	91.	6609
VOA Surr, 4-BFB	% Rec	94.	6609
VOA Surr, DBFM	% Rec	124.	6609

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.266	106	60 - 154	6609
Acetone	mg/l	0.250	0.270	108	60 - 154	6609
Benzene	mg/l	0.0500	0.0560	112	78 - 127	6609
Benzene	mg/l	0.0500	0.0551	110	78 - 127	6609
Bromobenzene	mg/l	0.0500	0.0511	102	80 - 120	6609
Bromobenzene	mg/l	0.0500	0.0497	99	80 - 120	6609
Bromochloromethane	mg/l	0.0500	0.0630	126	66 - 137	6609
Bromochloromethane	mg/l	0.0500	0.0620	124	66 - 137	6609
Bromoform	mg/l	0.0500	0.0505	101	66 - 129	6609
Bromoform	mg/l	0.0500	0.0523	105	66 - 129	6609
Bromomethane	mg/l	0.0500	0.0475	95	47 - 163	6609
Bromomethane	mg/l	0.0500	0.0404	81	47 - 163	6609
2-Butanone	mg/l	0.250	0.299	120	75 - 140	6609
2-Butanone	mg/l	0.250	0.305	122	75 - 140	6609
n-Butylbenzene	mg/l	0.0500	0.0515	103	61 - 131	6609
n-Butylbenzene	mg/l	0.0500	0.0481	96	61 - 131	6609
sec-Butylbenzene	mg/l	0.0500	0.0502	100	72 - 124	6609
sec-Butylbenzene	mg/l	0.0500	0.0487	97	72 - 124	6609
t-Butylbenzene	mg/l	0.0500	0.0501	100	74 - 123	6609
t-Butylbenzene	mg/l	0.0500	0.0486	97	74 - 123	6609
Carbon disulfide	mg/l	0.0500	0.0496	99	67 - 138	6609
Carbon disulfide	mg/l	0.0500	0.0515	103	67 - 138	6609
Carbon tetrachloride	mg/l	0.0500	0.0660	132	69 - 132	6609
Carbon tetrachloride	mg/l	0.0500	0.0675	135 #	69 - 132	6609
Chlorobenzene	mg/l	0.0500	0.0546	109	81 - 120	6609

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 3

Laboratory Receipt Date: 12/ 9/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0543	109	81 - 120	6609
Chloroethane	mg/l	0.0500	0.0565	113	65 - 134	6609
Chloroethane	mg/l	0.0500	0.0572	114	65 - 134	6609
Chloroform	mg/l	0.0500	0.0626	125 #	77 - 125	6609
Chloroform	mg/l	0.0500	0.0629	126 #	77 - 125	6609
Chloromethane	mg/l	0.0500	0.0429	86	43 - 142	6609
Chloromethane	mg/l	0.0500	0.0414	83	43 - 142	6609
2-Chlorotoluene	mg/l	0.0500	0.0541	108	76 - 126	6609
2-Chlorotoluene	mg/l	0.0500	0.0516	103	76 - 126	6609
4-Chlorotoluene	mg/l	0.0500	0.0557	111	79 - 123	6609
4-Chlorotoluene	mg/l	0.0500	0.0537	107	79 - 123	6609
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0592	118	64 - 132	6609
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0592	118	64 - 132	6609
Dibromochloromethane	mg/l	0.0500	0.0559	112	78 - 124	6609
Dibromochloromethane	mg/l	0.0500	0.0564	113	78 - 124	6609
1,2-Dibromoethane	mg/l	0.0500	0.0569	114	79 - 126	6609
1,2-Dibromoethane	mg/l	0.0500	0.0577	115	79 - 126	6609
Dibromomethane	mg/l	0.0500	0.0548	110	75 - 131	6609
Dibromomethane	mg/l	0.0500	0.0567	113	75 - 131	6609
1,2-Dichlorobenzene	mg/l	0.0500	0.0584	117	80 - 120	6609
1,2-Dichlorobenzene	mg/l	0.0500	0.0566	113	80 - 120	6609
1,3-Dichlorobenzene	mg/l	0.0500	0.0566	113	79 - 120	6609
1,3-Dichlorobenzene	mg/l	0.0500	0.0548	110	79 - 120	6609
1,4-Dichlorobenzene	mg/l	0.0500	0.0567	113	78 - 118	6609
1,4-Dichlorobenzene	mg/l	0.0500	0.0527	105	78 - 118	6609
Dichlorodifluoromethane	mg/l	0.0500	0.0528	106	45 - 149	6609
Dichlorodifluoromethane	mg/l	0.0500	0.0548	110	45 - 149	6609
1,1-Dichloroethane	mg/l	0.0500	0.0575	115	73 - 128	6609
1,1-Dichloroethane	mg/l	0.0500	0.0595	119	73 - 128	6609
1,2-Dichloroethane	mg/l	0.0500	0.0624	125	71 - 135	6609
1,2-Dichloroethane	mg/l	0.0500	0.0647	129	71 - 135	6609

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 4

Laboratory Receipt Date: 12/ 9/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethene	mg/l	0.0500	0.0551	110	72 - 128	6609
1,1-Dichloroethene	mg/l	0.0500	0.0561	112	72 - 128	6609
cis-1,2-Dichloroethene	mg/l	0.0500	0.0609	122	76 - 127	6609
cis-1,2-Dichloroethene	mg/l	0.0500	0.0605	121	76 - 127	6609
cis-1,2-Dichloroethene	mg/l	0.0500	0.0598	120	76 - 127	6613
trans-1,2-Dichloroethene	mg/l	0.0500	0.0579	116	71 - 131	6609
trans-1,2-Dichloroethene	mg/l	0.0500	0.0580	116	71 - 131	6609
1,2-Dichloropropane	mg/l	0.0500	0.0488	98	75 - 127	6609
1,2-Dichloropropane	mg/l	0.0500	0.0490	98	75 - 127	6609
1,3-Dichloropropane	mg/l	0.0500	0.0542	108	81 - 128	6609
1,3-Dichloropropane	mg/l	0.0500	0.0551	110	81 - 128	6609
2,2-Dichloropropane	mg/l	0.0500	0.0713	143	45 - 145	6609
2,2-Dichloropropane	mg/l	0.0500	0.0578	116	45 - 145	6609
1,1-Dichloropropene	mg/l	0.0500	0.0645	129 #	76 - 127	6609
1,1-Dichloropropene	mg/l	0.0500	0.0639	128 #	76 - 127	6609
cis-1,3-Dichloropropene	mg/l	0.0500	0.0535	107	72 - 131	6609
cis-1,3-Dichloropropene	mg/l	0.0500	0.0524	105	72 - 131	6609
trans-1,3-Dichloropropene	mg/l	0.0500	0.0549	110	69 - 131	6609
trans-1,3-Dichloropropene	mg/l	0.0500	0.0535	107	69 - 131	6609
Ethylbenzene	mg/l	0.0500	0.0507	101	78 - 125	6609
Ethylbenzene	mg/l	0.0500	0.0503	101	78 - 125	6609
Hexachlorobutadiene	mg/l	0.0500	0.0578	116	59 - 126	6609
Hexachlorobutadiene	mg/l	0.0500	0.0548	110	59 - 126	6609
2-Hexanone	mg/l	0.250	0.242	97	71 - 142	6609
2-Hexanone	mg/l	0.250	0.245	98	71 - 142	6609
Isopropylbenzene	mg/l	0.0500	0.0514	103	78 - 123	6609
Isopropylbenzene	mg/l	0.0500	0.0506	101	78 - 123	6609
4-Isopropyltoluene	mg/l	0.0500	0.0598	120	73 - 125	6609
4-Isopropyltoluene	mg/l	0.0500	0.0554	111	73 - 125	6609
4-Methyl-2-pentanone	mg/l	0.250	0.243	97	71 - 141	6609
4-Methyl-2-pentanone	mg/l	0.250	0.257	103	71 - 141	6609

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 5

Laboratory Receipt Date: 12/ 9/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Methylene chloride	mg/l	0.0500	0.0549	110	70 - 140	6609
Methylene chloride	mg/l	0.0500	0.0557	111	70 - 140	6609
Naphthalene	mg/l	0.0500	0.0539	108	52 - 140	6609
Naphthalene	mg/l	0.0500	0.0525	105	52 - 140	6609
n-Propylbenzene	mg/l	0.0500	0.0520	104	75 - 125	6609
n-Propylbenzene	mg/l	0.0500	0.0493	99	75 - 125	6609
Styrene	mg/l	0.0500	0.0519	104	82 - 122	6609
Styrene	mg/l	0.0500	0.0517	103	82 - 122	6609
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0594	119	85 - 123	6609
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0621	124 #	85 - 123	6609
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0521	104	74 - 133	6609
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0455	91	74 - 133	6609
Tetrachloroethene	mg/l	0.0500	0.0564	113	76 - 123	6609
Tetrachloroethene	mg/l	0.0500	0.0548	110	76 - 123	6609
Toluene	mg/l	0.0500	0.0462	92	78 - 127	6609
Toluene	mg/l	0.0500	0.0505	101	78 - 127	6609
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0620	124	59 - 132	6609
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0598	120	59 - 132	6609
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0622	124	60 - 133	6609
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0589	118	60 - 133	6609
1,1,1-Trichloroethane	mg/l	0.0500	0.0664	133 #	74 - 128	6609
1,1,1-Trichloroethane	mg/l	0.0500	0.0673	135 #	74 - 128	6609
1,1,2-Trichloroethane	mg/l	0.0500	0.0540	108	85 - 125	6609
1,1,2-Trichloroethane	mg/l	0.0500	0.0559	112	85 - 125	6609
Trichloroethene	mg/l	0.0500	0.0604	121	78 - 125	6609
Trichloroethene	mg/l	0.0500	0.0636	127 #	78 - 125	6609
Trichloroethene	mg/l	0.0500	0.0590	118	78 - 125	6613
1,2,3-Trichloropropane	mg/l	0.0500	0.0546	109	75 - 130	6609
1,2,3-Trichloropropane	mg/l	0.0500	0.0515	103	75 - 130	6609
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0504	101	77 - 122	6609
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0491	98	77 - 122	6609

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 6

Laboratory Receipt Date: 12/ 9/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0507	101	75 - 125	6609
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0488	98	75 - 125	6609
Vinyl chloride	mg/l	0.0500	0.0511	102	61 - 140	6609
Vinyl chloride	mg/l	0.0500	0.0521	104	61 - 140	6609
Xylenes (Total)	mg/l	0.150	0.163	109	77 - 126	6609
Xylenes (Total)	mg/l	0.150	0.162	108	77 - 126	6609
Bromodichloromethane	mg/l	0.0500	0.0587	117	79 - 126	6609
Bromodichloromethane	mg/l	0.0500	0.0584	117	79 - 126	6609
Trichlorofluoromethane	mg/l	0.0500	0.0573	115	60 - 140	6609
Trichlorofluoromethane	mg/l	0.0500	0.0603	121	60 - 140	6609
VOA Surr 1,2-DCA-d4	% Rec			120	73 - 133	6609
VOA Surr 1,2-DCA-d4	% Rec			124	73 - 133	6609
VOA Surr 1,2-DCA-d4	% Rec			114	73 - 133	6613
VOA Surr Toluene-d8	% Rec			90	80 - 121	6609
VOA Surr Toluene-d8	% Rec			98	80 - 121	6609
VOA Surr Toluene-d8	% Rec			87	80 - 121	6613
VOA Surr, 4-BFB	% Rec			96	80 - 128	6609
VOA Surr, 4-BFB	% Rec			95	80 - 128	6609
VOA Surr, 4-BFB	% Rec			89	80 - 128	6613
VOA Surr, DBFM	% Rec			116	81 - 121	6609
VOA Surr, DBFM	% Rec			122	81 - 121	6609
VOA Surr, DBFM	% Rec			112	81 - 121	6613

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	6609	12/14/02	15:33
Acetone	< 0.00470	mg/l	6609	12/15/02	1:34

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 7

Laboratory Receipt Date: 12/ 9/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Benzene	< 0.0005	mg/l	6609	12/14/02	15:33
Benzene	< 0.0005	mg/l	6609	12/15/02	1:34
Bromobenzene	< 0.00030	mg/l	6609	12/14/02	15:33
Bromobenzene	< 0.00030	mg/l	6609	12/15/02	1:34
Bromochloromethane	< 0.00030	mg/l	6609	12/14/02	15:33
Bromochloromethane	< 0.00030	mg/l	6609	12/15/02	1:34
Bromoform	< 0.00060	mg/l	6609	12/14/02	15:33
Bromoform	< 0.00060	mg/l	6609	12/15/02	1:34
Bromomethane	< 0.00060	mg/l	6609	12/14/02	15:33
Bromomethane	< 0.00060	mg/l	6609	12/15/02	1:34
2-Butanone	< 0.00310	mg/l	6609	12/14/02	15:33
2-Butanone	< 0.00310	mg/l	6609	12/15/02	1:34
n-Butylbenzene	< 0.00010	mg/l	6609	12/14/02	15:33
n-Butylbenzene	< 0.00010	mg/l	6609	12/15/02	1:34
sec-Butylbenzene	< 0.00030	mg/l	6609	12/14/02	15:33
sec-Butylbenzene	< 0.00030	mg/l	6609	12/15/02	1:34
t-Butylbenzene	< 0.00030	mg/l	6609	12/14/02	15:33
t-Butylbenzene	< 0.00030	mg/l	6609	12/15/02	1:34
Carbon disulfide	< 0.00020	mg/l	6609	12/14/02	15:33
Carbon disulfide	< 0.00020	mg/l	6609	12/15/02	1:34
Carbon tetrachloride	< 0.00040	mg/l	6609	12/14/02	15:33
Carbon tetrachloride	< 0.00040	mg/l	6609	12/15/02	1:34
Chlorobenzene	< 0.00020	mg/l	6609	12/14/02	15:33
Chlorobenzene	< 0.00020	mg/l	6609	12/15/02	1:34
Chloroethane	< 0.00100	mg/l	6609	12/14/02	15:33
Chloroethane	< 0.00100	mg/l	6609	12/15/02	1:34
Chloroform	< 0.00080	mg/l	6609	12/14/02	15:33
Chloroform	< 0.00080	mg/l	6609	12/15/02	1:34
Chloromethane	< 0.00070	mg/l	6609	12/14/02	15:33
Chloromethane	< 0.00070	mg/l	6609	12/15/02	1:34
2-Chlorotoluene	< 0.00040	mg/l	6609	12/14/02	15:33

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 9/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Chlorotoluene	< 0.00040	mg/l	6609	12/15/02	1:34
4-Chlorotoluene	< 0.00050	mg/l	6609	12/14/02	15:33
4-Chlorotoluene	< 0.00050	mg/l	6609	12/15/02	1:34
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6609	12/14/02	15:33
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6609	12/15/02	1:34
Dibromochloromethane	< 0.00050	mg/l	6609	12/14/02	15:33
Dibromochloromethane	< 0.00050	mg/l	6609	12/15/02	1:34
1,2-Dibromoethane	< 0.00040	mg/l	6609	12/14/02	15:33
1,2-Dibromoethane	< 0.00040	mg/l	6609	12/15/02	1:34
Dibromomethane	< 0.00090	mg/l	6609	12/14/02	15:33
Dibromomethane	< 0.00090	mg/l	6609	12/15/02	1:34
1,2-Dichlorobenzene	< 0.00020	mg/l	6609	12/14/02	15:33
1,2-Dichlorobenzene	< 0.00020	mg/l	6609	12/15/02	1:34
1,3-Dichlorobenzene	< 0.00030	mg/l	6609	12/14/02	15:33
1,3-Dichlorobenzene	< 0.00030	mg/l	6609	12/15/02	1:34
1,4-Dichlorobenzene	< 0.00040	mg/l	6609	12/14/02	15:33
1,4-Dichlorobenzene	< 0.00040	mg/l	6609	12/15/02	1:34
Dichlorodifluoromethane	< 0.00050	mg/l	6609	12/14/02	15:33
Dichlorodifluoromethane	< 0.00050	mg/l	6609	12/15/02	1:34
1,1-Dichloroethane	< 0.00020	mg/l	6609	12/14/02	15:33
1,1-Dichloroethane	< 0.00020	mg/l	6609	12/15/02	1:34
1,2-Dichloroethane	< 0.00060	mg/l	6609	12/14/02	15:33
1,2-Dichloroethane	< 0.00060	mg/l	6609	12/15/02	1:34
1,1-Dichloroethene	< 0.00060	mg/l	6609	12/14/02	15:33
1,1-Dichloroethene	< 0.00060	mg/l	6609	12/15/02	1:34
cis-1,2-Dichloroethene	< 0.00060	mg/l	6609	12/14/02	15:33
cis-1,2-Dichloroethene	< 0.00060	mg/l	6609	12/15/02	1:34
cis-1,2-Dichloroethene	< 0.00060	mg/l	6613	12/16/02	12:06
trans-1,2-Dichloroethene	< 0.00050	mg/l	6609	12/14/02	15:33
trans-1,2-Dichloroethene	< 0.00050	mg/l	6609	12/15/02	1:34
1,2-Dichloropropane	< 0.00040	mg/l	6609	12/14/02	15:33

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 9/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dichloropropane	< 0.00040	mg/l	6609	12/15/02	1:34
1,3-Dichloropropane	< 0.00040	mg/l	6609	12/14/02	15:33
1,3-Dichloropropane	< 0.00040	mg/l	6609	12/15/02	1:34
2,2-Dichloropropane	< 0.00040	mg/l	6609	12/14/02	15:33
2,2-Dichloropropane	< 0.00040	mg/l	6609	12/15/02	1:34
1,1-Dichloropropene	< 0.00050	mg/l	6609	12/14/02	15:33
1,1-Dichloropropene	< 0.00050	mg/l	6609	12/15/02	1:34
cis-1,3-Dichloropropene	< 0.00030	mg/l	6609	12/14/02	15:33
cis-1,3-Dichloropropene	< 0.00030	mg/l	6609	12/15/02	1:34
trans-1,3-Dichloropropene	< 0.00050	mg/l	6609	12/14/02	15:33
trans-1,3-Dichloropropene	< 0.00050	mg/l	6609	12/15/02	1:34
Ethylbenzene	< 0.0003	mg/l	6609	12/14/02	15:33
Ethylbenzene	< 0.0003	mg/l	6609	12/15/02	1:34
Hexachlorobutadiene	< 0.00080	mg/l	6609	12/14/02	15:33
Hexachlorobutadiene	< 0.00080	mg/l	6609	12/15/02	1:34
2-Hexanone	< 0.00420	mg/l	6609	12/14/02	15:33
2-Hexanone	< 0.00420	mg/l	6609	12/15/02	1:34
Isopropylbenzene	< 0.00040	mg/l	6609	12/14/02	15:33
Isopropylbenzene	< 0.00040	mg/l	6609	12/15/02	1:34
4-Isopropyltoluene	< 0.00060	mg/l	6609	12/14/02	15:33
4-Isopropyltoluene	< 0.00060	mg/l	6609	12/15/02	1:34
4-Methyl-2-pentanone	< 0.00490	mg/l	6609	12/14/02	15:33
4-Methyl-2-pentanone	< 0.00490	mg/l	6609	12/15/02	1:34
Methylene chloride	< 0.00240	mg/l	6609	12/14/02	15:33
Methylene chloride	< 0.00240	mg/l	6609	12/15/02	1:34
Naphthalene	< 0.00120	mg/l	6609	12/14/02	15:33
Naphthalene	< 0.00120	mg/l	6609	12/15/02	1:34
n-Propylbenzene	< 0.00030	mg/l	6609	12/14/02	15:33
n-Propylbenzene	< 0.00030	mg/l	6609	12/15/02	1:34
Styrene	< 0.00040	mg/l	6609	12/14/02	15:33
Styrene	< 0.00040	mg/l	6609	12/15/02	1:34

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 9/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6609	12/14/02	15:33
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6609	12/15/02	1:34
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6609	12/14/02	15:33
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6609	12/15/02	1:34
Tetrachloroethene	< 0.00040	mg/l	6609	12/14/02	15:33
Tetrachloroethene	< 0.00040	mg/l	6609	12/15/02	1:34
Toluene	< 0.0006	mg/l	6609	12/14/02	15:33
Toluene	< 0.0006	mg/l	6609	12/15/02	1:34
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6609	12/14/02	15:33
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6609	12/15/02	1:34
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6609	12/14/02	15:33
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6609	12/15/02	1:34
1,1,1-Trichloroethane	< 0.00070	mg/l	6609	12/14/02	15:33
1,1,1-Trichloroethane	< 0.00070	mg/l	6609	12/15/02	1:34
1,1,2-Trichloroethane	< 0.00040	mg/l	6609	12/14/02	15:33
1,1,2-Trichloroethane	< 0.00040	mg/l	6609	12/15/02	1:34
Trichloroethene	< 0.00040	mg/l	6609	12/14/02	15:33
Trichloroethene	< 0.00040	mg/l	6609	12/15/02	1:34
Trichloroethene	< 0.00040	mg/l	6613	12/16/02	12:06
1,2,3-Trichloropropane	< 0.00060	mg/l	6609	12/14/02	15:33
1,2,3-Trichloropropane	< 0.00060	mg/l	6609	12/15/02	1:34
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6609	12/14/02	15:33
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6609	12/15/02	1:34
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6609	12/14/02	15:33
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6609	12/15/02	1:34
Vinyl chloride	< 0.00050	mg/l	6609	12/14/02	15:33
Vinyl chloride	< 0.00050	mg/l	6609	12/15/02	1:34
Xylenes (Total)	< 0.0009	mg/l	6609	12/14/02	15:33
Xylenes (Total)	< 0.0009	mg/l	6609	12/15/02	1:34
Bromodichloromethane	< 0.00030	mg/l	6609	12/14/02	15:33
Bromodichloromethane	< 0.00030	mg/l	6609	12/15/02	1:34

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 57870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/ 9/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichlorofluoromethane	< 0.00040	mg/l	6609	12/14/02	15:33
Trichlorofluoromethane	< 0.00040	mg/l	6609	12/15/02	1:34
VOA Surr 1,2-DCA-d4	117.	% Rec	6609	12/14/02	15:33
VOA Surr 1,2-DCA-d4	121.	% Rec	6609	12/15/02	1:34
VOA Surr 1,2-DCA-d4	121.	% Rec	6613	12/16/02	12:06
VOA Surr Toluene-d8	89.	% Rec	6609	12/14/02	15:33
VOA Surr Toluene-d8	98.	% Rec	6609	12/15/02	1:34
VOA Surr Toluene-d8	91.	% Rec	6613	12/16/02	12:06
VOA Surr, 4-BFB	87.	% Rec	6609	12/14/02	15:33
VOA Surr, 4-BFB	93.	% Rec	6609	12/15/02	1:34
VOA Surr, 4-BFB	91.	% Rec	6613	12/16/02	12:06
VOA Surr, DBFM	108.	% Rec	6609	12/14/02	15:33
VOA Surr, DBFM	119.	% Rec	6609	12/15/02	1:34
VOA Surr, DBFM	119.	% Rec	6613	12/16/02	12:06

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 312349

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December 9, 2002
Analytical Data



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

512524

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Preidler

Sampler Signature: Janna Preidler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Preidler

Invoice To: Rick Ryan

Quote #: 02501.216.2.99 PO#: 6599

TAT Standard Rush (surcharges may apply) Date Needed: _____ Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers								Analyze For:								QC Deliverables	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					SL - Sludge GW - Groundwater WW - Wastewater DW - Drinking Water S - Soil/Solid Specify Other	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)										____ None ____ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Custody Seals: Y N N/A

Bottles Supplied by Test America: Y N

Method of Shipment: Fax COC to

Knoxville Office
Fax # (865) 693-4722

Relinquished By: <u>Janna Preidler</u>	Date: <u>12/8/02</u>	Time: <u>1700</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>C. W. H.</u>	Date: <u>12.10.02</u>	Time: <u>0900</u>



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

312524

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec

Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922

Fax: 865.531.8226

Sampler Name: (Print Name) Janna Peevler

Sampler Signature: Janna Peevler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Peevler

Invoice To: Rick Ryan

Quote #: 02501.216.2.99 PO#: 6599

TAT ____ Standard ____ Rush (surcharges may apply) Date Needed: _____ Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										QC Deliverables	REMARKS		
						HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)														____ None ____ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____	
VOC (B260)																											
SAMPLE ID																											
BR-06 (MSD)	12/8/02	844	G		GW	3																		202	324		m. spike dup
BR-07	12/8/02	951	G		GW	3																			25		
BR-07 (dup)	12/8/02	953	G		GW	3																			26		
BR-16	12/8/02	1105	G		GW	3																			27		
BR-12	12/8/02	1342	G		GW	3																			28		
BR-13	12/8/02	1432	G		GW	3																			29		
BR-15	12/8/02	1534	G		GW	3																			30		
BR-10	12/9/02		G		GW	3																			31		
BR-04	12/9/02		G		GW	3																			32		
BR-04	12/9/02		G		GW	3																		202	333		

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Relinquished By: Janna Peevler

Date: 12/10/02

Time: 1700

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By: C. L. H.

Date: 12.10.02

Time: 0900

Custody Seals: Y N N/A

Bottles Supplied by Test America: Y N

Method of Shipment:

Fax COC to

Knoxville Office

Fax # (865) 593-4723

TestAmerica

INCORPORATED

12/17/02

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.7 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 312524.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Page 1

Sample Identification	Lab Number	Collection Date
-----	-----	-----
BR-03	02-A202316	12/ 7/02
BR-14	02-A202317	12/ 7/02
QATB02	02-A202318	12/ 7/02
QARB02	02-A202319	12/ 7/02
QAFB02	02-A202320	12/ 7/02
BR-01	02-A202321	12/ 7/02
BR-02	02-A202322	12/ 7/02
W-6	02-A202323	12/ 7/02
BR-06	02-A202324	12/ 8/02
BR-07	02-A202325	12/ 8/02
BR-07 (DUP)	02-A202326	12/ 8/02
BR-16	02-A202327	12/ 8/02
BR-12	02-A202328	12/ 8/02
BR-13	02-A202329	12/ 8/02
BR-15	02-A202330	12/ 8/02
BR-10	02-A202331	12/ 9/02
OB-04	02-A202332	12/ 9/02
BR-04	02-A202333	12/ 9/02

TestAmerica

INCORPORATED

Page 2

Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: Roxanne L Connor

Report Date: 12/17/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202316

Sample ID: BR-03

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 9:42

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/11/02	18:28	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/11/02	18:28	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/11/02	18:28	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/11/02	18:28	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202316

Sample ID: BR-03

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1-Dichloroethene	0.00330	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.0135	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/11/02	18:28	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/11/02	18:28	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/11/02	18:28	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/11/02	18:28	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/11/02	18:28	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/11/02	18:28	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Trichloroethene	0.821	mg/l	0.0200	10	12/13/02	3:58	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/11/02	18:28	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/11/02	18:28	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202316

Sample ID: BR-03

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/11/02	18:28	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	86.	80. - 128.
VOA Surr, DBFM	104.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202317

Sample ID: BR-14

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 10:40

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.243	mg/l	0.0500	1	12/12/02	0:18	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	0:18	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	0:18	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	0:18	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202317

Sample ID: BR-14

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	0:18	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	0:18	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	0:18	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	0:18	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	0:18	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Toluene	0.0088	mg/l	0.0020	1	12/12/02	0:18	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	0:18	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583
Xylenes (Total)	0.0034	mg/l	0.0020	1	12/12/02	0:18	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202317
 Sample ID: BR-14
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	0:18	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	87.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202318

Sample ID: QATB02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 0:00

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/11/02	16:53	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/11/02	16:53	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/11/02	16:53	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/11/02	16:53	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202318
Sample ID: QATB02
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/11/02	16:53	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/11/02	16:53	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/11/02	16:53	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/11/02	16:53	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/11/02	16:53	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/11/02	16:53	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/11/02	16:53	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/11/02	16:53	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202318

Sample ID: QATB02

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/11/02	16:53	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202319
Sample ID: QARB02
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02
Time Collected: 11:10
Date Received: 12/10/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	0:49	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	0:49	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	0:49	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	0:49	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202319

Sample ID: QARB02

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	0:49	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	0:49	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	0:49	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	0:49	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	0:49	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	0:49	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	0:49	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	0:49	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202319
 Sample ID: QARB02
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	0:49	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBPM	103.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202320

Sample ID: QAFB02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 11:15

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	1:21	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	1:21	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	1:21	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	1:21	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202320

Sample ID: QAFB02

Project: 51870.7

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	1:21	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	1:21	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	1:21	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	1:21	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	1:21	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	1:21	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	1:21	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	1:21	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202320

Sample ID: QAFB02

Project: 51870.7

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	1:21	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202321

Sample ID: BR-01

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 12:57

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	1:53	B. Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	1:53	B. Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	1:53	B. Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	1:53	B. Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B. Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202321

Sample ID: BR-01

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.0830	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
trans-1,2-Dichloroethene	0.00380	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	1:53	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	1:53	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	1:53	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	1:53	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	1:53	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	1:53	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Trichloroethene	0.0143	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	1:53	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	1:53	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202321
 Sample ID: BR-01
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	1:53	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202322

Sample ID: BR-02

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 13:53

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	2:25	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	2:25	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	2:25	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	2:25	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202322
Sample ID: BR-02
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.172	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
trans-1,2-Dichloroethene	0.0298	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	2:25	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	2:25	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	2:25	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	2:25	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	2:25	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	2:25	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Trichloroethene	0.694	mg/l	0.0200	10	12/13/02	4:30	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	2:25	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Vinyl chloride	0.00560	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	2:25	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202322

Sample ID: BR-02

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	2:25	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202323

Sample ID: W-6

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 7/02

Time Collected: 14:10

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	2:57	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	2:57	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	2:57	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	2:57	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202323

Sample ID: W-6

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.00810	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	2:57	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	2:57	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	2:57	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	2:57	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	2:57	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	2:57	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	2:57	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	2:57	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202323
 Sample ID: W-6
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	2:57	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	98.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202324

Sample ID: BR-06

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 8/02

Time Collected: 8:41

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	3:28	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	3:28	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	3:28	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	3:28	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202324

Sample ID: BR-06

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	3:28	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	3:28	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	3:28	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	3:28	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	3:28	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	3:28	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	3:28	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	3:28	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202324

Sample ID: BR-06

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	3:28	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Lab Number: 02-A202325

Sample ID: BR-07

Sample Type: Ground water

Site ID:

Date Collected: 12/ 8/02

Time Collected: 9:51

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.108	mg/l	0.0500	1	12/12/02	4:00	B.Herford	8260B	7583
Benzene	0.0059	mg/l	0.0020	1	12/12/02	4:00	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	4:00	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	4:00	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202325

Sample ID: BR-07

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.0176	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
trans-1,2-Dichloroethene	0.0101	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	4:00	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	4:00	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	4:00	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	4:00	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	4:00	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	4:00	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	4:00	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Vinyl chloride	0.0646	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	4:00	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202325
Sample ID: BR-07
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	4:00	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	73. - 133.
VOA Surr Toluene-d8	99.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202326
Sample ID: BR-07(DUP)
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 12/ 8/02
Time Collected: 9:53
Date Received: 12/10/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	0.105	mg/l	0.0500	1	12/12/02	4:32	B.Herford	8260B	7583
Benzene	0.0058	mg/l	0.0020	1	12/12/02	4:32	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	4:32	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	4:32	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202326
Sample ID: BR-07(DUP)
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.0178	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
trans-1,2-Dichloroethene	0.0104	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	4:32	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	4:32	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	4:32	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	4:32	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	4:32	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	4:32	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	4:32	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Vinyl chloride	0.0659	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	4:32	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202326

Sample ID: BR-07(DUP)

Project: 51870.7

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	4:32	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	87.	80. - 128.
VOA Surr, DBFM	103.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Lab Number: 02-A202327

Sample ID: BR-16

Sample Type: Ground water

Site ID:

Date Collected: 12/ 8/02

Time Collected: 11:05

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	5:04	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	5:04	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	5:04	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	5:04	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202327

Sample ID: BR-16

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	5:04	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	5:04	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	5:04	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	5:04	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	5:04	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	5:04	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	5:04	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	5:04	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202327
 Sample ID: BR-16
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	5:04	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	87.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202328

Sample ID: BR-12

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 8/02

Time Collected: 13:42

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	5:36	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	5:36	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	5:36	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	5:36	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202328
 Sample ID: BR-12
 Project: 51870.7
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.0286	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	5:36	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	5:36	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	5:36	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	5:36	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	5:36	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	5:36	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Trichloroethene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	5:36	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	5:36	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202328

Sample ID: BR-12

Project: 51870.7

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	5:36	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBFM	102.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202329
Sample ID: BR-13
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 12/ 8/02
Time Collected: 14:32
Date Received: 12/10/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	6:08	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	6:08	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	6:08	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	6:08	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202329
Sample ID: BR-13
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
cis-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	6:08	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	6:08	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	6:08	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	6:08	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	6:08	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	6:08	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Trichloroethene	0.00280	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	6:08	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	6:08	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202329
 Sample ID: BR-13
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	6:08	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBFM	101.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202330
Sample ID: BR-15
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 12/ 8/02
Time Collected: 15:34
Date Received: 12/10/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	6:39	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	6:39	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	6:39	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	6:39	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202330

Sample ID: BR-15

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1-Dichloroethene	0.00280	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.177	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
trans-1,2-Dichloroethene	0.0436	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	6:39	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	6:39	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	6:39	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	6:39	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	6:39	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	6:39	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Trichloroethene	4.74	mg/l	0.100	50	12/13/02	5:02	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	6:39	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	6:39	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202330
 Sample ID: BR-15
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	6:39	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	86.	80. - 128.
VOA Surr, DBFM	104.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202331

Sample ID: BR-10

Sample Type: Ground water

Site ID:

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected:

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	7:11	B. Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	7:11	B. Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	7:11	B. Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	7:11	B. Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B. Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202331
Sample ID: BR-10
Project: 51870.7
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1-Dichloroethene	0.00230	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.750	mg/l	0.100	50	12/13/02	5:34	B.Herford	8260B	7594
trans-1,2-Dichloroethene	0.0601	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	7:11	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	7:11	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	7:11	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	7:11	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	7:11	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	7:11	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Trichloroethene	3.06	mg/l	0.100	50	12/13/02	5:34	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	7:11	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	7:11	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202331
Sample ID: BR-10
Project: 51870.7
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	7:11	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	97.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBFM	103.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A202332
Sample ID: OB-04
Sample Type: Ground water
Site ID:

Project: 51870.7
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02
Time Collected:
Date Received: 12/10/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	7:43	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	7:43	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	7:43	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	7:43	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202332

Sample ID: OB-04

Project: 51870.7

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.00550	mg/l	0.00200	1	12/13/02	2:54	B.Herford	8260B	7594
trans-1,2-Dichloroethene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	7:43	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	7:43	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	7:43	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	7:43	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	7:43	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	7:43	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Trichloroethene	0.0463	mg/l	0.00200	1	12/13/02	2:54	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	7:43	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Vinyl chloride	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	7:43	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202332
Sample ID: OB-04
Project: 51870.7
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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	7:43	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	88.	80. - 128.
VOA Surr, DBFM	104.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Project: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Lab Number: 02-A202333

Sample ID: BR-04

Sample Type: Ground water

Site ID:

Date Collected: 12/ 9/02

Time Collected:

Date Received: 12/10/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Acetone	ND	mg/l	0.0500	1	12/12/02	8:14	B.Herford	8260B	7583
Benzene	ND	mg/l	0.0020	1	12/12/02	8:14	B.Herford	8260B	7583
Bromobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Bromochloromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Bromoform	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Bromomethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
2-Butanone	ND	mg/l	0.0250	1	12/12/02	8:14	B.Herford	8260B	7583
n-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
sec-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
t-Butylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Carbon disulfide	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Carbon tetrachloride	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Chlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Chloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Chloroform	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Chloromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
2-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
4-Chlorotoluene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1	12/12/02	8:14	B.Herford	8260B	7583
Dibromochloromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2-Dibromoethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Dibromomethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,3-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,4-Dichlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Dichlorodifluoromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202333

Sample ID: BR-04

Project: 51870.7

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2-Dichloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1-Dichloroethene	0.00830	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
cis-1,2-Dichloroethene	0.535	mg/l	0.100	50	12/13/02	6:06	B.Herford	8260B	7594
trans-1,2-Dichloroethene	0.0776	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,3-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
2,2-Dichloropropane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
cis-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
trans-1,3-Dichloropropene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Ethylbenzene	ND	mg/l	0.0020	1	12/12/02	8:14	B.Herford	8260B	7583
Hexachlorobutadiene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
2-Hexanone	ND	mg/l	0.0100	1	12/12/02	8:14	B.Herford	8260B	7583
Isopropylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
4-Isopropyltoluene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	12/12/02	8:14	B.Herford	8260B	7583
Methylene chloride	ND	mg/l	0.00500	1	12/12/02	8:14	B.Herford	8260B	7583
Naphthalene	ND	mg/l	0.00500	1	12/12/02	8:14	B.Herford	8260B	7583
n-Propylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Styrene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Tetrachloroethene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Toluene	ND	mg/l	0.0020	1	12/12/02	8:14	B.Herford	8260B	7583
1,2,3-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2,4-Trichlorobenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1,1-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,1,2-Trichloroethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Trichloroethene	5.30	mg/l	0.100	50	12/13/02	6:06	B.Herford	8260B	7594
1,2,3-Trichloropropane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	12/12/02	8:14	B.Herford	8260B	7583
1,3,5-Trimethylbenzene	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Vinyl chloride	0.0271	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583
Xylenes (Total)	ND	mg/l	0.0020	1	12/12/02	8:14	B.Herford	8260B	7583
Bromodichloromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A202333
 Sample ID: BR-04
 Project: 51870.7
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00200	1	12/12/02	8:14	B.Herford	8260B	7583

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	73. - 133.
VOA Surr Toluene-d8	98.	80. - 121.
VOA Surr, 4-BFB	89.	80. - 128.
VOA Surr, DBPM	104.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/10/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0020	0.0505	0.0500	101	78. - 132.	7583	02-A202324
Chlorobenzene	mg/l	< 0.00200	0.0522	0.0500	104	79. - 124.	7583	02-A202324
1,1-Dichloroethene	mg/l	< 0.00200	0.0508	0.0500	102	68. - 141.	7583	02-A202324
Toluene	mg/l	< 0.0020	0.0492	0.0500	98	77. - 134.	7583	02-A202324
Trichloroethene	mg/l	< 0.00200	0.0528	0.0500	106	73. - 137.	7583	02-A202324
Tetrachloroethene	mg/l	< 0.00200	0.0517	0.0500	103	72. - 136.	7583	02-A202324
VOA Surr 1,2-DCA-d4	µ Rec				98	73. - 133.	7583	
VOA Surr Toluene-d8	µ Rec				98	80. - 121.	7583	
VOA Surr, 4-BFB	µ Rec				88	80. - 128.	7583	
VOA Surr, DBFM	µ Rec				101	81. - 121.	7583	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0505	0.0510	0.99	15.	7583
Chlorobenzene	mg/l	0.0522	0.0527	0.95	16.	7583
1,1-Dichloroethene	mg/l	0.0508	0.0495	2.59	19.	7583
Toluene	mg/l	0.0492	0.0499	1.41	16.	7583
Trichloroethene	mg/l	0.0528	0.0530	0.38	20.	7583
Tetrachloroethene	mg/l	0.0517	0.0538	3.98	23.	7583

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 2

Laboratory Receipt Date: 12/10/02

VOA Surr 1,2-DCA-d4	% Rec	100.	7583
VOA Surr Toluene-d8	% Rec	99.	7583
VOA Surr, 4-BFB	% Rec	89.	7583
VOA Surr, DBFM	% Rec	102.	7583

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.250	0.234	94	60 - 154	7583
Acetone	mg/l	0.250	0.262	105	60 - 154	7583
Benzene	mg/l	0.0500	0.0521	104	78 - 127	7583
Benzene	mg/l	0.0500	0.0518	104	78 - 127	7583
Bromobenzene	mg/l	0.0500	0.0526	105	80 - 120	7583
Bromobenzene	mg/l	0.0500	0.0527	105	80 - 120	7583
Bromochloromethane	mg/l	0.0500	0.0487	97	66 - 137	7583
Bromochloromethane	mg/l	0.0500	0.0513	103	66 - 137	7583
Bromoform	mg/l	0.0500	0.0620	124	66 - 129	7583
Bromoform	mg/l	0.0500	0.0593	119	66 - 129	7583
Bromomethane	mg/l	0.0500	0.0613	123	47 - 163	7583
Bromomethane	mg/l	0.0500	0.0559	112	47 - 163	7583
2-Butanone	mg/l	0.250	0.254	102	75 - 140	7583
2-Butanone	mg/l	0.250	0.289	116	75 - 140	7583
n-Butylbenzene	mg/l	0.0500	0.0532	106	61 - 131	7583
n-Butylbenzene	mg/l	0.0500	0.0545	109	61 - 131	7583
sec-Butylbenzene	mg/l	0.0500	0.0555	111	72 - 124	7583
sec-Butylbenzene	mg/l	0.0500	0.0545	109	72 - 124	7583
t-Butylbenzene	mg/l	0.0500	0.0550	110	74 - 123	7583
t-Butylbenzene	mg/l	0.0500	0.0535	107	74 - 123	7583
Carbon disulfide	mg/l	0.0500	0.0479	96	67 - 138	7583
Carbon disulfide	mg/l	0.0500	0.0478	96	67 - 138	7583
Carbon tetrachloride	mg/l	0.0500	0.0530	106	69 - 132	7583
Carbon tetrachloride	mg/l	0.0500	0.0511	102	69 - 132	7583
Chlorobenzene	mg/l	0.0500	0.0538	108	81 - 120	7583

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 3

Laboratory Receipt Date: 12/10/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0531	106	81 - 120	7583
Chloroethane	mg/l	0.0500	0.0614	123	65 - 134	7583
Chloroethane	mg/l	0.0500	0.0517	103	65 - 134	7583
Chloroform	mg/l	0.0500	0.0554	111	77 - 125	7583
Chloroform	mg/l	0.0500	0.0533	107	77 - 125	7583
Chloromethane	mg/l	0.0500	0.0341	68	43 - 142	7583
Chloromethane	mg/l	0.0500	0.0261	52	43 - 142	7583
2-Chlorotoluene	mg/l	0.0500	0.0542	108	76 - 126	7583
2-Chlorotoluene	mg/l	0.0500	0.0530	106	76 - 126	7583
4-Chlorotoluene	mg/l	0.0500	0.0544	109	79 - 123	7583
4-Chlorotoluene	mg/l	0.0500	0.0534	107	79 - 123	7583
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0554	111	64 - 132	7583
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0591	118	64 - 132	7583
Dibromochloromethane	mg/l	0.0500	0.0573	115	78 - 124	7583
Dibromochloromethane	mg/l	0.0500	0.0566	113	78 - 124	7583
1,2-Dibromoethane	mg/l	0.0500	0.0562	112	79 - 126	7583
1,2-Dibromoethane	mg/l	0.0500	0.0558	112	79 - 126	7583
Dibromomethane	mg/l	0.0500	0.0594	119	75 - 131	7583
Dibromomethane	mg/l	0.0500	0.0523	105	75 - 131	7583
1,2-Dichlorobenzene	mg/l	0.0500	0.0543	109	80 - 120	7583
1,2-Dichlorobenzene	mg/l	0.0500	0.0537	107	80 - 120	7583
1,3-Dichlorobenzene	mg/l	0.0500	0.0530	106	79 - 120	7583
1,3-Dichlorobenzene	mg/l	0.0500	0.0535	107	79 - 120	7583
1,4-Dichlorobenzene	mg/l	0.0500	0.0522	104	78 - 118	7583
1,4-Dichlorobenzene	mg/l	0.0500	0.0527	105	78 - 118	7583
Dichlorodifluoromethane	mg/l	0.0500	0.0606	121	45 - 149	7583
Dichlorodifluoromethane	mg/l	0.0500	0.0583	117	45 - 149	7583
1,1-Dichloroethane	mg/l	0.0500	0.0557	111	73 - 128	7583
1,1-Dichloroethane	mg/l	0.0500	0.0536	107	73 - 128	7583
1,2-Dichloroethane	mg/l	0.0500	0.0548	110	71 - 135	7583
1,2-Dichloroethane	mg/l	0.0500	0.0548	110	71 - 135	7583

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 4

Laboratory Receipt Date: 12/10/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethene	mg/l	0.0500	0.0515	103	72 - 128	7583
1,1-Dichloroethene	mg/l	0.0500	0.0499	100	72 - 128	7583
cis-1,2-Dichloroethene	mg/l	0.0500	0.0532	106	76 - 127	7583
cis-1,2-Dichloroethene	mg/l	0.0500	0.0535	107	76 - 127	7583
cis-1,2-Dichloroethene	mg/l	0.0500	0.0548	110	76 - 127	7594
trans-1,2-Dichloroethene	mg/l	0.0500	0.0525	105	71 - 131	7583
trans-1,2-Dichloroethene	mg/l	0.0500	0.0527	105	71 - 131	7583
1,2-Dichloropropane	mg/l	0.0500	0.0557	111	75 - 127	7583
1,2-Dichloropropane	mg/l	0.0500	0.0549	110	75 - 127	7583
1,3-Dichloropropane	mg/l	0.0500	0.0536	107	81 - 128	7583
1,3-Dichloropropane	mg/l	0.0500	0.0544	109	81 - 128	7583
2,2-Dichloropropane	mg/l	0.0500	0.0466	93	45 - 145	7583
2,2-Dichloropropane	mg/l	0.0500	0.0536	107	45 - 145	7583
1,1-Dichloropropene	mg/l	0.0500	0.0532	106	76 - 127	7583
1,1-Dichloropropene	mg/l	0.0500	0.0531	106	76 - 127	7583
cis-1,3-Dichloropropene	mg/l	0.0500	0.0535	107	72 - 131	7583
cis-1,3-Dichloropropene	mg/l	0.0500	0.0538	108	72 - 131	7583
trans-1,3-Dichloropropene	mg/l	0.0500	0.0566	113	69 - 131	7583
trans-1,3-Dichloropropene	mg/l	0.0500	0.0552	110	69 - 131	7583
Ethylbenzene	mg/l	0.0500	0.0531	106	78 - 125	7583
Ethylbenzene	mg/l	0.0500	0.0527	105	78 - 125	7583
Hexachlorobutadiene	mg/l	0.0500	0.0546	109	59 - 126	7583
Hexachlorobutadiene	mg/l	0.0500	0.0568	114	59 - 126	7583
2-Hexanone	mg/l	0.250	0.254	102	71 - 142	7583
2-Hexanone	mg/l	0.250	0.291	116	71 - 142	7583
Isopropylbenzene	mg/l	0.0500	0.0549	110	78 - 123	7583
Isopropylbenzene	mg/l	0.0500	0.0549	110	78 - 123	7583
4-Isopropyltoluene	mg/l	0.0500	0.0547	109	73 - 125	7583
4-Isopropyltoluene	mg/l	0.0500	0.0550	110	73 - 125	7583
4-Methyl-2-pentanone	mg/l	0.250	0.256	102	71 - 141	7583
4-Methyl-2-pentanone	mg/l	0.250	0.285	114	71 - 141	7583

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/10/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Methylene chloride	mg/l	0.0500	0.0585	117	70 - 140	7583
Methylene chloride	mg/l	0.0500	0.0542	108	70 - 140	7583
Naphthalene	mg/l	0.0500	0.0567	113	52 - 140	7583
Naphthalene	mg/l	0.0500	0.0599	120	52 - 140	7583
n-Propylbenzene	mg/l	0.0500	0.0549	110	75 - 125	7583
n-Propylbenzene	mg/l	0.0500	0.0540	108	75 - 125	7583
Styrene	mg/l	0.0500	0.0553	111	82 - 122	7583
Styrene	mg/l	0.0500	0.0555	111	82 - 122	7583
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0537	107	85 - 123	7583
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0536	107	85 - 123	7583
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0515	103	74 - 133	7583
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0574	115	74 - 133	7583
Tetrachloroethene	mg/l	0.0500	0.0527	105	76 - 123	7583
Tetrachloroethene	mg/l	0.0500	0.0519	104	76 - 123	7583
Toluene	mg/l	0.0500	0.0503	101	78 - 127	7583
Toluene	mg/l	0.0500	0.0502	100	78 - 127	7583
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0555	111	59 - 132	7583
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0575	115	59 - 132	7583
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0560	112	60 - 133	7583
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0571	114	60 - 133	7583
1,1,1-Trichloroethane	mg/l	0.0500	0.0557	111	74 - 128	7583
1,1,1-Trichloroethane	mg/l	0.0500	0.0542	108	74 - 128	7583
1,1,2-Trichloroethane	mg/l	0.0500	0.0509	102	85 - 125	7583
1,1,2-Trichloroethane	mg/l	0.0500	0.0517	103	85 - 125	7583
Trichloroethene	mg/l	0.0500	0.0552	110	78 - 125	7583
Trichloroethene	mg/l	0.0500	0.0534	107	78 - 125	7583
Trichloroethene	mg/l	0.0500	0.0536	107	78 - 125	7594
1,2,3-Trichloropropane	mg/l	0.0500	0.0534	107	75 - 130	7583
1,2,3-Trichloropropane	mg/l	0.0500	0.0520	104	75 - 130	7583
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0546	109	77 - 122	7583
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0541	108	77 - 122	7583

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 6

Laboratory Receipt Date: 12/10/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0546	109	75 - 125	7583
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0541	108	75 - 125	7583
Vinyl chloride	mg/l	0.0500	0.0578	116	61 - 140	7583
Vinyl chloride	mg/l	0.0500	0.0543	109	61 - 140	7583
Xylenes (Total)	mg/l	0.150	0.165	110	77 - 126	7583
Xylenes (Total)	mg/l	0.150	0.166	111	77 - 126	7583
Bromodichloromethane	mg/l	0.0500	0.0581	116	79 - 126	7583
Bromodichloromethane	mg/l	0.0500	0.0570	114	79 - 126	7583
Trichlorofluoromethane	mg/l	0.0500	0.0514	103	60 - 140	7583
Trichlorofluoromethane	mg/l	0.0500	0.0504	101	60 - 140	7583
VOA Surr 1,2-DCA-d4	% Rec			99	73 - 133	7583
VOA Surr 1,2-DCA-d4	% Rec			100	73 - 133	7583
VOA Surr 1,2-DCA-d4	% Rec			100	73 - 133	7594
VOA Surr Toluene-d8	% Rec			99	80 - 121	7583
VOA Surr Toluene-d8	% Rec			100	80 - 121	7583
VOA Surr Toluene-d8	% Rec			99	80 - 121	7594
VOA Surr, 4-BFB	% Rec			90	80 - 128	7583
VOA Surr, 4-BFB	% Rec			88	80 - 128	7583
VOA Surr, 4-BFB	% Rec			87	80 - 128	7594
VOA Surr, DBFM	% Rec			103	81 - 121	7583
VOA Surr, DBFM	% Rec			100	81 - 121	7583
VOA Surr, DBFM	% Rec			104	81 - 121	7594

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	7583	12/11/02	12:05
Acetone	< 0.00470	mg/l	7583	12/11/02	23:46

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 7

Laboratory Receipt Date: 12/10/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.0005	mg/l	7583	12/11/02	12:05
Benzene	< 0.0005	mg/l	7583	12/11/02	23:46
Bromobenzene	< 0.00030	mg/l	7583	12/11/02	12:05
Bromobenzene	< 0.00030	mg/l	7583	12/11/02	23:46
Bromochloromethane	< 0.00030	mg/l	7583	12/11/02	12:05
Bromochloromethane	< 0.00030	mg/l	7583	12/11/02	23:46
Bromoform	< 0.00060	mg/l	7583	12/11/02	12:05
Bromoform	< 0.00060	mg/l	7583	12/11/02	23:46
Bromomethane	< 0.00060	mg/l	7583	12/11/02	12:05
Bromomethane	< 0.00060	mg/l	7583	12/11/02	23:46
2-Butanone	< 0.00310	mg/l	7583	12/11/02	12:05
2-Butanone	< 0.00310	mg/l	7583	12/11/02	23:46
n-Butylbenzene	< 0.00010	mg/l	7583	12/11/02	12:05
n-Butylbenzene	< 0.00010	mg/l	7583	12/11/02	23:46
sec-Butylbenzene	< 0.00030	mg/l	7583	12/11/02	12:05
sec-Butylbenzene	< 0.00030	mg/l	7583	12/11/02	23:46
t-Butylbenzene	< 0.00030	mg/l	7583	12/11/02	12:05
t-Butylbenzene	< 0.00030	mg/l	7583	12/11/02	23:46
Carbon disulfide	< 0.00020	mg/l	7583	12/11/02	12:05
Carbon disulfide	< 0.00020	mg/l	7583	12/11/02	23:46
Carbon tetrachloride	< 0.00040	mg/l	7583	12/11/02	12:05
Carbon tetrachloride	< 0.00040	mg/l	7583	12/11/02	23:46
Chlorobenzene	< 0.00020	mg/l	7583	12/11/02	12:05
Chlorobenzene	< 0.00020	mg/l	7583	12/11/02	23:46
Chloroethane	< 0.00100	mg/l	7583	12/11/02	12:05
Chloroethane	< 0.00100	mg/l	7583	12/11/02	23:46
Chloroform	< 0.00080	mg/l	7583	12/11/02	12:05
Chloroform	< 0.00080	mg/l	7583	12/11/02	23:46
Chloromethane	< 0.00070	mg/l	7583	12/11/02	12:05
Chloromethane	< 0.00070	mg/l	7583	12/11/02	23:46
2-Chlorotoluene	< 0.00040	mg/l	7583	12/11/02	12:05

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 8

Laboratory Receipt Date: 12/10/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Chlorotoluene	< 0.00040	mg/l	7583	12/11/02	23:46
4-Chlorotoluene	< 0.00050	mg/l	7583	12/11/02	12:05
4-Chlorotoluene	< 0.00050	mg/l	7583	12/11/02	23:46
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7583	12/11/02	12:05
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7583	12/11/02	23:46
Dibromochloromethane	< 0.00050	mg/l	7583	12/11/02	12:05
Dibromochloromethane	< 0.00050	mg/l	7583	12/11/02	23:46
1,2-Dibromoethane	< 0.00040	mg/l	7583	12/11/02	12:05
1,2-Dibromoethane	< 0.00040	mg/l	7583	12/11/02	23:46
Dibromomethane	< 0.00090	mg/l	7583	12/11/02	12:05
Dibromomethane	< 0.00090	mg/l	7583	12/11/02	23:46
1,2-Dichlorobenzene	< 0.00020	mg/l	7583	12/11/02	12:05
1,2-Dichlorobenzene	< 0.00020	mg/l	7583	12/11/02	23:46
1,3-Dichlorobenzene	< 0.00030	mg/l	7583	12/11/02	12:05
1,3-Dichlorobenzene	< 0.00030	mg/l	7583	12/11/02	23:46
1,4-Dichlorobenzene	< 0.00040	mg/l	7583	12/11/02	12:05
1,4-Dichlorobenzene	< 0.00040	mg/l	7583	12/11/02	23:46
Dichlorodifluoromethane	< 0.00050	mg/l	7583	12/11/02	12:05
Dichlorodifluoromethane	< 0.00050	mg/l	7583	12/11/02	23:46
1,1-Dichloroethane	< 0.00020	mg/l	7583	12/11/02	12:05
1,1-Dichloroethane	< 0.00020	mg/l	7583	12/11/02	23:46
1,2-Dichloroethane	< 0.00060	mg/l	7583	12/11/02	12:05
1,2-Dichloroethane	< 0.00060	mg/l	7583	12/11/02	23:46
1,1-Dichloroethene	< 0.00060	mg/l	7583	12/11/02	12:05
1,1-Dichloroethene	< 0.00060	mg/l	7583	12/11/02	23:46
cis-1,2-Dichloroethene	< 0.00060	mg/l	7583	12/11/02	12:05
cis-1,2-Dichloroethene	< 0.00060	mg/l	7583	12/11/02	23:46
cis-1,2-Dichloroethene	< 0.00060	mg/l	7594	12/13/02	2:23
trans-1,2-Dichloroethene	< 0.00050	mg/l	7583	12/11/02	12:05
trans-1,2-Dichloroethene	< 0.00050	mg/l	7583	12/11/02	23:46
1,2-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	12:05

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

Page: 9

Laboratory Receipt Date: 12/10/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	23:46
1,3-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	12:05
1,3-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	23:46
2,2-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	12:05
2,2-Dichloropropane	< 0.00040	mg/l	7583	12/11/02	23:46
1,1-Dichloropropene	< 0.00050	mg/l	7583	12/11/02	12:05
1,1-Dichloropropene	< 0.00050	mg/l	7583	12/11/02	23:46
cis-1,3-Dichloropropene	< 0.00030	mg/l	7583	12/11/02	12:05
cis-1,3-Dichloropropene	< 0.00030	mg/l	7583	12/11/02	23:46
trans-1,3-Dichloropropene	< 0.00050	mg/l	7583	12/11/02	12:05
trans-1,3-Dichloropropene	< 0.00050	mg/l	7583	12/11/02	23:46
Ethylbenzene	< 0.0003	mg/l	7583	12/11/02	12:05
Ethylbenzene	< 0.0003	mg/l	7583	12/11/02	23:46
Hexachlorobutadiene	< 0.00080	mg/l	7583	12/11/02	12:05
Hexachlorobutadiene	< 0.00080	mg/l	7583	12/11/02	23:46
2-Hexanone	< 0.00420	mg/l	7583	12/11/02	12:05
2-Hexanone	< 0.00420	mg/l	7583	12/11/02	23:46
Isopropylbenzene	< 0.00040	mg/l	7583	12/11/02	12:05
Isopropylbenzene	< 0.00040	mg/l	7583	12/11/02	23:46
4-Isopropyltoluene	< 0.00060	mg/l	7583	12/11/02	12:05
4-Isopropyltoluene	< 0.00060	mg/l	7583	12/11/02	23:46
4-Methyl-2-pentanone	< 0.00490	mg/l	7583	12/11/02	12:05
4-Methyl-2-pentanone	< 0.00490	mg/l	7583	12/11/02	23:46
Methylene chloride	< 0.00240	mg/l	7583	12/11/02	12:05
Methylene chloride	< 0.00240	mg/l	7583	12/11/02	23:46
Naphthalene	< 0.00120	mg/l	7583	12/11/02	12:05
Naphthalene	< 0.00120	mg/l	7583	12/11/02	23:46
n-Propylbenzene	< 0.00030	mg/l	7583	12/11/02	12:05
n-Propylbenzene	< 0.00030	mg/l	7583	12/11/02	23:46
Styrene	< 0.00040	mg/l	7583	12/11/02	12:05
Styrene	< 0.00040	mg/l	7583	12/11/02	23:46

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/10/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7583	12/11/02	12:05
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7583	12/11/02	23:46
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7583	12/11/02	12:05
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7583	12/11/02	23:46
Tetrachloroethene	< 0.00040	mg/l	7583	12/11/02	12:05
Tetrachloroethene	< 0.00040	mg/l	7583	12/11/02	23:46
Toluene	< 0.0006	mg/l	7583	12/11/02	12:05
Toluene	< 0.0006	mg/l	7583	12/11/02	23:46
1,2,3-Trichlorobenzene	< 0.00100	mg/l	7583	12/11/02	12:05
1,2,3-Trichlorobenzene	< 0.00100	mg/l	7583	12/11/02	23:46
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7583	12/11/02	12:05
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7583	12/11/02	23:46
1,1,1-Trichloroethane	< 0.00070	mg/l	7583	12/11/02	12:05
1,1,1-Trichloroethane	< 0.00070	mg/l	7583	12/11/02	23:46
1,1,2-Trichloroethane	< 0.00040	mg/l	7583	12/11/02	12:05
1,1,2-Trichloroethane	< 0.00040	mg/l	7583	12/11/02	23:46
Trichloroethene	< 0.00040	mg/l	7583	12/11/02	12:05
Trichloroethene	< 0.00040	mg/l	7583	12/11/02	23:46
Trichloroethene	< 0.00040	mg/l	7594	12/13/02	2:23
1,2,3-Trichloropropane	< 0.00060	mg/l	7583	12/11/02	12:05
1,2,3-Trichloropropane	< 0.00060	mg/l	7583	12/11/02	23:46
1,2,4-Trimethylbenzene	< 0.0003	mg/l	7583	12/11/02	12:05
1,2,4-Trimethylbenzene	< 0.0003	mg/l	7583	12/11/02	23:46
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7583	12/11/02	12:05
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7583	12/11/02	23:46
Vinyl chloride	< 0.00050	mg/l	7583	12/11/02	12:05
Vinyl chloride	< 0.00050	mg/l	7583	12/11/02	23:46
Xylenes (Total)	< 0.0009	mg/l	7583	12/11/02	12:05
Xylenes (Total)	< 0.0009	mg/l	7583	12/11/02	23:46
Bromodichloromethane	< 0.00030	mg/l	7583	12/11/02	12:05
Bromodichloromethane	< 0.00030	mg/l	7583	12/11/02	23:46

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.7

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/10/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichlorofluoromethane	< 0.00040	mg/l	7583	12/11/02	12:05
Trichlorofluoromethane	< 0.00040	mg/l	7583	12/11/02	23:46
VOA Surr 1,2-DCA-d4	102.	% Rec	7583	12/11/02	12:05
VOA Surr 1,2-DCA-d4	103.	% Rec	7583	12/11/02	23:46
VOA Surr 1,2-DCA-d4	100.	% Rec	7594	12/13/02	2:23
VOA Surr Toluene-d8	98.	% Rec	7583	12/11/02	12:05
VOA Surr Toluene-d8	99.	% Rec	7583	12/11/02	23:46
VOA Surr Toluene-d8	97.	% Rec	7594	12/13/02	2:23
VOA Surr, 4-BFB	90.	% Rec	7583	12/11/02	12:05
VOA Surr, 4-BFB	89.	% Rec	7583	12/11/02	23:46
VOA Surr, 4-BFB	86.	% Rec	7594	12/13/02	2:23
VOA Surr, DBFM	104.	% Rec	7583	12/11/02	12:05
VOA Surr, DBFM	104.	% Rec	7583	12/11/02	23:46
VOA Surr, DBFM	104.	% Rec	7594	12/13/02	2:23

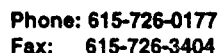
= Value outside Laboratory historical or method prescribed QC limits.

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December 10, 2002
Analytical Data



To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Sampler Signature:

Quote #: 102501.216.2.99 PO#: 6599

[illegible]

Fax # (865) 693-4723

TestAmerica

INCORPORATED

12/16/02

MACTEC ENGINEERING AND CONSULT 4997

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KNOXVILLE, TN 37932-1968

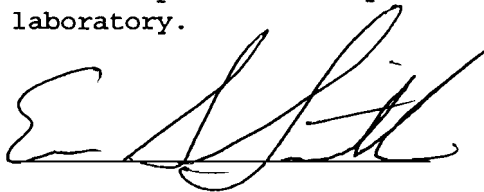
This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.07 FORMER TAYLOR INSTRUMENT. The Laboratory Project number is 312756.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
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BR-05	02-A203287	12/ 9/02
OB-05	02-A203288	12/ 9/02
BR-09	02-A203289	12/ 9/02
OB-08	02-A203290	12/ 9/02
BR-11	02-A203291	12/ 9/02

These results relate only to the items tested.
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Report Approved By:



Report Date: 12/16/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 11342

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A203287

Sample ID: BR-05

Sample Type: Water

Site ID:

Project: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected: 13:54

Date Received: 12/11/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	0.0109	mg/l	0.0010	1.0	12/13/02	16:40	J.Haley	8260B	6126
Toluene	0.0010	mg/l	0.0010	1.0	12/13/02	16:40	J.Haley	8260B	6126
Ethylbenzene	0.0018	mg/l	0.0010	1.0	12/13/02	16:40	J.Haley	8260B	6126
Xylenes (Total)	ND	mg/l	0.0010	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2-Dibromoethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Naphthalene	ND	mg/l	0.00250	1.0	12/13/02	16:40	J.Haley	8260B	6126
Acetone	ND	mg/l	0.0250	1.0	12/13/02	16:40	J.Haley	8260B	6126
Bromobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Bromochloromethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Bromoform	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Bromomethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
2-Butanone	ND	mg/l	0.0250	1.0	12/13/02	16:40	J.Haley	8260B	6126
n-Butylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
sec-Butylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
t-Butylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Carbon disulfide	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Carbon tetrachloride	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Chlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Chloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Chloroform	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Chloromethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
2-Chlorotoluene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
4-Chlorotoluene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1.0	12/13/02	16:40	J.Haley	8260B	6126
Dibromochloromethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Dibromomethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203287
Sample ID: BR-05
Project: 51870.07
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Dichlorodifluoromethane	0.00110	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1-Dichloroethane	0.00230	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1-Dichloroethene	0.0491	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
cis-1,2-Dichloroethene	2.24	mg/l	0.0500	50.0	12/14/02	17:12	J.Haley	8260B	6609
trans-1,2-Dichloroethene	0.170	mg/l	0.0500	50.0	12/14/02	17:12	J.Haley	8260B	6609
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,3-Dichloropropane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
2,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1-Dichloropropene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Hexachlorobutadiene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
2-Hexanone	ND	mg/l	0.00500	1.0	12/13/02	16:40	J.Haley	8260B	6126
Isopropylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
4-Isopropyltoluene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
4-Methyl-2-pentanone	ND	mg/l	0.00500	1.0	12/13/02	16:40	J.Haley	8260B	6126
Methylene chloride	ND	mg/l	0.00250	1.0	12/13/02	16:40	J.Haley	8260B	6126
n-Propylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Styrene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Tetrachloroethene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Trichloroethene	3.14	mg/l	0.0500	50.0	12/14/02	17:12	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1.0	12/13/02	16:40	J.Haley	8260B	6126
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126
Vinyl chloride	0.390	mg/l	0.0500	50.0	12/14/02	17:12	J.Haley	8260B	6609
Bromodichloromethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203287
 Sample ID: BR-05
 Project: 51870.07
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	12/13/02	16:40	J.Haley	8260B	6126

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	120.	73. - 133.
VOA Surr Toluene-d8	89.	80. - 121.
VOA Surr, 4-BFB	85.	80. - 128.
VOA Surr, DBFM	113.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A203288

Sample ID: OB-05

Sample Type: Water

Site ID:

Project: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected: 14:54

Date Received: 12/11/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	mg/l	0.0010	1.0	12/14/02	6:57	J.Haley	8260B	6602
Toluene	ND	mg/l	0.0010	1.0	12/14/02	6:57	J.Haley	8260B	6602
Ethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	6:57	J.Haley	8260B	6602
Xylenes (Total)	ND	mg/l	0.0010	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2-Dibromoethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Naphthalene	ND	mg/l	0.00250	1.0	12/14/02	6:57	J.Haley	8260B	6602
Acetone	ND	mg/l	0.0250	1.0	12/14/02	6:57	J.Haley	8260B	6602
Bromobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Bromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Bromoform	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Bromomethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
2-Butanone	ND	mg/l	0.0250	1.0	12/14/02	6:57	J.Haley	8260B	6602
n-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
sec-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
t-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Carbon disulfide	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Carbon tetrachloride	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Chlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Chloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Chloroform	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Chloromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
2-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
4-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1.0	12/14/02	6:57	J.Haley	8260B	6602
Dibromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Dibromomethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203288

Sample ID: OB-05

Project: 51870.07

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1-Dichloroethene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
cis-1,2-Dichloroethene	0.0130	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,3-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
2,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Hexachlorobutadiene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
2-Hexanone	ND	mg/l	0.00500	1.0	12/14/02	6:57	J.Haley	8260B	6602
Isopropylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
4-Isopropyltoluene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
4-Methyl-2-pentanone	ND	mg/l	0.00500	1.0	12/14/02	6:57	J.Haley	8260B	6602
Methylene chloride	ND	mg/l	0.00250	1.0	12/14/02	6:57	J.Haley	8260B	6602
n-Propylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Styrene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Tetrachloroethene	0.00340	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Trichloroethene	0.604	mg/l	0.0100	10.0	12/15/02	2:04	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	6:57	J.Haley	8260B	6602
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Vinyl chloride	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602
Bromodichloromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203288
Sample ID: OB-05
Project: 51870.07
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	12/14/02	6:57	J.Haley	8260B	6602

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	127.	73. - 133.
VOA Surr Toluene-d8	95.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBPM	118.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A203289

Sample ID: BR-09

Sample Type: Water

Site ID:

Project: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected: 9:11

Date Received: 12/11/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	mg/l	0.0010	1.0	12/14/02	7:26	J.Haley	8260B	6602
Toluene	0.0010	mg/l	0.0010	1.0	12/14/02	7:26	J.Haley	8260B	6602
Ethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	7:26	J.Haley	8260B	6602
Xylenes (Total)	ND	mg/l	0.0010	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2-Dibromoethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Naphthalene	ND	mg/l	0.00250	1.0	12/14/02	7:26	J.Haley	8260B	6602
Acetone	ND	mg/l	0.0250	1.0	12/14/02	7:26	J.Haley	8260B	6602
Bromobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Bromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Bromoform	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Bromomethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
2-Butanone	ND	mg/l	0.0250	1.0	12/14/02	7:26	J.Haley	8260B	6602
n-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
sec-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
t-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Carbon disulfide	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Carbon tetrachloride	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Chlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Chloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Chloroform	0.00100	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Chloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
2-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
4-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1.0	12/14/02	7:26	J.Haley	8260B	6602
Dibromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Dibromomethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203289

Sample ID: BR-09

Project: 51870.07

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1-Dichloroethene	0.00130	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
cis-1,2-Dichloroethene	0.0953	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
trans-1,2-Dichloroethene	0.00730	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,3-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
2,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Hexachlorobutadiene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
2-Hexanone	ND	mg/l	0.00500	1.0	12/14/02	7:26	J.Haley	8260B	6602
Isopropylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
4-Isopropyltoluene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
4-Methyl-2-pentanone	ND	mg/l	0.00500	1.0	12/14/02	7:26	J.Haley	8260B	6602
Methylene chloride	ND	mg/l	0.00250	1.0	12/14/02	7:26	J.Haley	8260B	6602
n-Propylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Styrene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Tetrachloroethene	0.00170	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Trichloroethene	9.03	mg/l	0.100	100.	12/15/02	2:33	J.Haley	8260B	6609
1,2,3-Trichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	7:26	J.Haley	8260B	6602
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Vinyl chloride	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602
Bromodichloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203289

Sample ID: BR-09

Project: 51870.07

Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	12/14/02	7:26	J.Haley	8260B	6602

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	124.	73. - 133.
VOA Surr Toluene-d8	92.	80. - 121.
VOA Surr, 4-BFB	91.	80. - 128.
VOA Surr, DBFM	117.	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERNIG AND CONSULT 4997

1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A203290

Sample ID: OB-08

Sample Type: Water

Site ID:

Project: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected: 10:13

Date Received: 12/11/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	mg/l	0.0010	1.0	12/14/02	7:55	J.Haley	8260B	6602
Toluene	ND	mg/l	0.0010	1.0	12/14/02	7:55	J.Haley	8260B	6602
Ethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	7:55	J.Haley	8260B	6602
Xylenes (Total)	ND	mg/l	0.0010	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2-Dibromoethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Naphthalene	ND	mg/l	0.00250	1.0	12/14/02	7:55	J.Haley	8260B	6602
Acetone	ND	mg/l	0.0250	1.0	12/14/02	7:55	J.Haley	8260B	6602
Bromobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Bromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Bromoform	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Bromomethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
2-Butanone	ND	mg/l	0.0250	1.0	12/14/02	7:55	J.Haley	8260B	6602
n-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
sec-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
t-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Carbon disulfide	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Carbon tetrachloride	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Chlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Chloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Chloroform	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Chloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
2-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
4-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1.0	12/14/02	7:55	J.Haley	8260B	6602
Dibromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Dibromomethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203290
 Sample ID: OB-08
 Project: 51870.07
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1-Dichloroethene	0.00130	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
cis-1,2-Dichloroethene	0.0942	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
trans-1,2-Dichloroethene	0.00500	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,3-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
2,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Hexachlorobutadiene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
2-Hexanone	ND	mg/l	0.00500	1.0	12/14/02	7:55	J.Haley	8260B	6602
Isopropylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
4-Isopropyltoluene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
4-Methyl-2-pentanone	ND	mg/l	0.00500	1.0	12/14/02	7:55	J.Haley	8260B	6602
Methylene chloride	ND	mg/l	0.00250	1.0	12/14/02	7:55	J.Haley	8260B	6602
n-Propylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Styrene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Tetrachloroethene	0.00890	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Trichloroethene	8.05	mg/l	0.100	100.	12/16/02	13:35	J.Haley	8260B	6613
1,2,3-Trichloropropane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	7:55	J.Haley	8260B	6602
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Vinyl chloride	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602
Bromodichloromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203290
 Sample ID: OB-08
 Project: 51870.07
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	12/14/02	7:55	J.Haley	8260B	6602

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	136. #	73. - 133.
VOA Surr Toluene-d8	95.	80. - 121.
VOA Surr, 4-BFB	92.	80. - 128.
VOA Surr, DBFM	128. #	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
 B = Analyte was detected in the method blank.
 J = Estimated Value below Report Limit.
 E = Estimated Value above the calibration limit of the instrument.
 # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

MACTEC ENGINEERING AND CONSULT 4997

1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 02-A203291

Sample ID: BR-11

Sample Type: Water

Site ID:

Project: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Sampler: JANNA PEEVLER

Date Collected: 12/ 9/02

Time Collected: 11:09

Date Received: 12/11/02

Time Received: 9:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	mg/l	0.0010	1.0	12/14/02	8:25	J.Haley	8260B	6602
Toluene	ND	mg/l	0.0010	1.0	12/14/02	8:25	J.Haley	8260B	6602
Ethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	8:25	J.Haley	8260B	6602
Xylenes (Total)	ND	mg/l	0.0010	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2-Dibromoethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Naphthalene	ND	mg/l	0.00250	1.0	12/14/02	8:25	J.Haley	8260B	6602
Acetone	ND	mg/l	0.0250	1.0	12/14/02	8:25	J.Haley	8260B	6602
Bromobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Bromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Bromoform	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Bromomethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
2-Butanone	ND	mg/l	0.0250	1.0	12/14/02	8:25	J.Haley	8260B	6602
n-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
sec-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
t-Butylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Carbon disulfide	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Carbon tetrachloride	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Chlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Chloroethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Chloroform	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Chloromethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
2-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
4-Chlorotoluene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2-Dibromo-3-chloropropane	ND	mg/l	0.00500	1.0	12/14/02	8:25	J.Haley	8260B	6602
Dibromochloromethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Dibromomethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203291
Sample ID: BR-11
Project: 51870.07
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1-Dichloroethane	0.00430	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1-Dichloroethene	0.0258	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
cis-1,2-Dichloroethene	1.65	mg/l	0.100	100.	12/16/02	12:35	J.Haley	8260B	6613
trans-1,2-Dichloroethene	0.0801	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,3-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
2,2-Dichloropropane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Hexachlorobutadiene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
2-Hexanone	ND	mg/l	0.00500	1.0	12/14/02	8:25	J.Haley	8260B	6602
Isopropylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
4-Isopropyltoluene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
4-Methyl-2-pentanone	ND	mg/l	0.00500	1.0	12/14/02	8:25	J.Haley	8260B	6602
Methylene chloride	ND	mg/l	0.00250	1.0	12/14/02	8:25	J.Haley	8260B	6602
n-Propylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Styrene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Tetrachloroethene	0.00170	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1,1-Trichloroethane	0.00650	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Trichloroethene	34.1	mg/l	1.00	1000	12/16/02	13:05	J.Haley	8260B	6960
1,2,3-Trichloropropane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	1.0	12/14/02	8:25	J.Haley	8260B	6602
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Vinyl chloride	0.0311	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602
Bromodichloromethane	ND	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A203291

Sample ID: BR-11

Project: 51870.07

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Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	0.00160	mg/l	0.00100	1.0	12/14/02	8:25	J.Haley	8260B	6602

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	131.	73. - 133.
VOA Surr Toluene-d8	94.	80. - 121.
VOA Surr, 4-BFB	96.	80. - 128.
VOA Surr, DBFM	127. #	81. - 121.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Page: 1

Laboratory Receipt Date: 12/11/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.0005	0.0560	0.0500	112	78. - 132.	6126	blank
Benzene	mg/l	< 0.0010	0.0528	0.0500	106	78. - 132.	6602	02-A203784
Chlorobenzene	mg/l	< 0.00020	0.0539	0.0500	108	79. - 124.	6126	blank
Chlorobenzene	mg/l	< 0.00100	0.0503	0.0500	101	79. - 124.	6602	02-A203784
1,1-Dichloroethene	mg/l	< 0.00060	0.0599	0.0500	120	68. - 141.	6126	blank
1,1-Dichloroethene	mg/l	< 0.00100	0.0541	0.0500	108	68. - 141.	6602	02-A203784
Toluene	mg/l	< 0.0006	0.0517	0.0500	103	77. - 134.	6126	blank
Toluene	mg/l	< 0.0010	0.0416	0.0500	83	77. - 134.	6602	02-A203784
Trichloroethene	mg/l	0.00100	0.0624	0.0500	123	73. - 137.	6609	02-A201302
Tetrachloroethene	mg/l	< 0.00040	0.0589	0.0500	118	72. - 136.	6126	blank
Tetrachloroethene	mg/l	< 0.00100	0.0457	0.0500	91	72. - 136.	6602	02-A203784
VOA Surr 1,2-DCA-d4	% Rec				128	73. - 133.	6609	
VOA Surr Toluene-d8	% Rec				89	80. - 121.	6609	
VOA Surr, 4-BFB	% Rec				91	80. - 128.	6609	
VOA Surr, DBFM	% Rec				120	81. - 121.	6609	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0560	0.0555	0.90	15.	6126
Benzene	mg/l	0.0528	0.0545	3.17	15.	6602
Chlorobenzene	mg/l	0.0539	0.0520	3.59	16.	6126
Chlorobenzene	mg/l	0.0503	0.0519	3.13	16.	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Page: 2

Laboratory Receipt Date: 12/11/02

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
1,1-Dichloroethene	mg/l	0.0599	0.0561	6.55	19.	6126
1,1-Dichloroethene	mg/l	0.0541	0.0581	7.13	19.	6602
Toluene	mg/l	0.0517	0.0504	2.55	16.	6126
Toluene	mg/l	0.0416	0.0441	5.83	16.	6602
Trichloroethene	mg/l	0.0624	0.0613	1.78	20.	6609
Tetrachloroethene	mg/l	0.0589	0.0564	4.34	23.	6126
Tetrachloroethene	mg/l	0.0457	0.0488	6.56	23.	6602
VOA Surr 1,2-DCA-d4	% Rec		127.			6609
VOA Surr Toluene-d8	% Rec		91.			6609
VOA Surr, 4-BFB	% Rec		94.			6609
VOA Surr, DBFM	% Rec		124.			6609

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.251	100	60 - 154	6126
Acetone	mg/l	0.250	0.251	100	60 - 154	6602
Acetone	mg/l	0.250	0.265	106	60 - 154	6602
Benzene	mg/l	0.0500	0.0499	100	78 - 127	6126
Benzene	mg/l	0.0500	0.0499	100	78 - 127	6602
Benzene	mg/l	0.0500	0.0580	116	78 - 127	6602
Bromobenzene	mg/l	0.0500	0.0474	95	80 - 120	6126
Bromobenzene	mg/l	0.0500	0.0474	95	80 - 120	6602
Bromobenzene	mg/l	0.0500	0.0595	119	80 - 120	6602
Bromochloromethane	mg/l	0.0500	0.0530	106	66 - 137	6126
Bromochloromethane	mg/l	0.0500	0.0530	106	66 - 137	6602
Bromochloromethane	mg/l	0.0500	0.0650	130	66 - 137	6602
Bromoform	mg/l	0.0500	0.0453	91	66 - 129	6126

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Page: 3

Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromoform	mg/l	0.0500	0.0453	91	66 - 129	6602
Bromoform	mg/l	0.0500	0.0492	98	66 - 129	6602
Bromomethane	mg/l	0.0500	0.0415	83	47 - 163	6126
Bromomethane	mg/l	0.0500	0.0415	83	47 - 163	6602
Bromomethane	mg/l	0.0500	0.0444	89	47 - 163	6602
2-Butanone	mg/l	0.250	0.287	115	75 - 140	6126
2-Butanone	mg/l	0.250	0.287	115	75 - 140	6602
2-Butanone	mg/l	0.250	0.301	120	75 - 140	6602
n-Butylbenzene	mg/l	0.0500	0.0451	90	61 - 131	6126
n-Butylbenzene	mg/l	0.0500	0.0451	90	61 - 131	6602
n-Butylbenzene	mg/l	0.0500	0.0472	94	61 - 131	6602
sec-Butylbenzene	mg/l	0.0500	0.0448	90	72 - 124	6126
sec-Butylbenzene	mg/l	0.0500	0.0448	90	72 - 124	6602
sec-Butylbenzene	mg/l	0.0500	0.0479	96	72 - 124	6602
t-Butylbenzene	mg/l	0.0500	0.0439	88	74 - 123	6126
t-Butylbenzene	mg/l	0.0500	0.0439	88	74 - 123	6602
t-Butylbenzene	mg/l	0.0500	0.0483	97	74 - 123	6602
Carbon disulfide	mg/l	0.0500	0.0431	86	67 - 138	6126
Carbon disulfide	mg/l	0.0500	0.0431	86	67 - 138	6602
Carbon disulfide	mg/l	0.0500	0.0515	103	67 - 138	6602
Carbon tetrachloride	mg/l	0.0500	0.0541	108	69 - 132	6126
Carbon tetrachloride	mg/l	0.0500	0.0541	108	69 - 132	6602
Carbon tetrachloride	mg/l	0.0500	0.0657	131	69 - 132	6602
Chlorobenzene	mg/l	0.0500	0.0474	95	81 - 120	6126
Chlorobenzene	mg/l	0.0500	0.0474	95	81 - 120	6602
Chlorobenzene	mg/l	0.0500	0.0540	108	81 - 120	6602
Chloroethane	mg/l	0.0500	0.0492	98	65 - 134	6126
Chloroethane	mg/l	0.0500	0.0492	98	65 - 134	6602
Chloroethane	mg/l	0.0500	0.0589	118	65 - 134	6602
Chloroform	mg/l	0.0500	0.0518	104	77 - 125	6126
Chloroform	mg/l	0.0500	0.0518	104	77 - 125	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Chloroform	mg/l	0.0500	0.0613	123	77 - 125	6602
Chloromethane	mg/l	0.0500	0.0374	75	43 - 142	6126
Chloromethane	mg/l	0.0500	0.0374	75	43 - 142	6602
Chloromethane	mg/l	0.0500	0.0450	90	43 - 142	6602
2-Chlorotoluene	mg/l	0.0500	0.0485	97	76 - 126	6126
2-Chlorotoluene	mg/l	0.0500	0.0485	97	76 - 126	6602
2-Chlorotoluene	mg/l	0.0500	0.0520	104	76 - 126	6602
4-Chlorotoluene	mg/l	0.0500	0.0492	98	79 - 123	6126
4-Chlorotoluene	mg/l	0.0500	0.0492	98	79 - 123	6602
4-Chlorotoluene	mg/l	0.0500	0.0531	106	79 - 123	6602
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0533	107	64 - 132	6126
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0533	107	64 - 132	6602
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0561	112	64 - 132	6602
Dibromochloromethane	mg/l	0.0500	0.0490	98	78 - 124	6126
Dibromochloromethane	mg/l	0.0500	0.0490	98	78 - 124	6602
Dibromochloromethane	mg/l	0.0500	0.0561	112	78 - 124	6602
1,2-Dibromoethane	mg/l	0.0500	0.0518	104	79 - 126	6126
1,2-Dibromoethane	mg/l	0.0500	0.0518	104	79 - 126	6602
1,2-Dibromoethane	mg/l	0.0500	0.0567	113	79 - 126	6602
Dibromomethane	mg/l	0.0500	0.0495	99	75 - 131	6126
Dibromomethane	mg/l	0.0500	0.0495	99	75 - 131	6602
Dibromomethane	mg/l	0.0500	0.0544	109	75 - 131	6602
1,2-Dichlorobenzene	mg/l	0.0500	0.0503	101	80 - 120	6126
1,2-Dichlorobenzene	mg/l	0.0500	0.0503	101	80 - 120	6602
1,2-Dichlorobenzene	mg/l	0.0500	0.0565	113	80 - 120	6602
1,3-Dichlorobenzene	mg/l	0.0500	0.0494	99	79 - 120	6126
1,3-Dichlorobenzene	mg/l	0.0500	0.0494	99	79 - 120	6602
1,3-Dichlorobenzene	mg/l	0.0500	0.0543	109	79 - 120	6602
1,4-Dichlorobenzene	mg/l	0.0500	0.0494	99	78 - 118	6126
1,4-Dichlorobenzene	mg/l	0.0500	0.0494	99	78 - 118	6602
1,4-Dichlorobenzene	mg/l	0.0500	0.0550	110	78 - 118	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dichlorodifluoromethane	mg/l	0.0500	0.0448	90	45 - 149	6126
Dichlorodifluoromethane	mg/l	0.0500	0.0448	90	45 - 149	6602
Dichlorodifluoromethane	mg/l	0.0500	0.0549	110	45 - 149	6602
1,1-Dichloroethane	mg/l	0.0500	0.0501	100	73 - 128	6126
1,1-Dichloroethane	mg/l	0.0500	0.0501	100	73 - 128	6602
1,1-Dichloroethane	mg/l	0.0500	0.0595	119	73 - 128	6602
1,2-Dichloroethane	mg/l	0.0500	0.0527	105	71 - 135	6126
1,2-Dichloroethane	mg/l	0.0500	0.0527	105	71 - 135	6602
1,2-Dichloroethane	mg/l	0.0500	0.0624	125	71 - 135	6602
1,1-Dichloroethene	mg/l	0.0500	0.0478	96	72 - 128	6126
1,1-Dichloroethene	mg/l	0.0500	0.0478	96	72 - 128	6602
1,1-Dichloroethene	mg/l	0.0500	0.0559	112	72 - 128	6602
cis-1,2-Dichloroethene	mg/l	0.0500	0.0531	106	76 - 127	6602
cis-1,2-Dichloroethene	mg/l	0.0500	0.0620	124	76 - 127	6602
cis-1,2-Dichloroethene	mg/l	0.0500	0.0609	122	76 - 127	6609
cis-1,2-Dichloroethene	mg/l	0.0500	0.0605	121	76 - 127	6609
cis-1,2-Dichloroethene	mg/l	0.0500	0.0598	120	76 - 127	6613
trans-1,2-Dichloroethene	mg/l	0.0500	0.0495	99	71 - 131	6602
trans-1,2-Dichloroethene	mg/l	0.0500	0.0593	119	71 - 131	6602
trans-1,2-Dichloroethene	mg/l	0.0500	0.0579	116	71 - 131	6609
trans-1,2-Dichloroethene	mg/l	0.0500	0.0580	116	71 - 131	6609
1,2-Dichloropropane	mg/l	0.0500	0.0451	90	75 - 127	6126
1,2-Dichloropropane	mg/l	0.0500	0.0451	90	75 - 127	6602
1,2-Dichloropropane	mg/l	0.0500	0.0480	96	75 - 127	6602
1,3-Dichloropropane	mg/l	0.0500	0.0493	99	81 - 128	6126
1,3-Dichloropropane	mg/l	0.0500	0.0493	99	81 - 128	6602
1,3-Dichloropropane	mg/l	0.0500	0.0530	106	81 - 128	6602
2,2-Dichloropropane	mg/l	0.0500	0.0584	117	45 - 145	6126
2,2-Dichloropropane	mg/l	0.0500	0.0584	117	45 - 145	6602
2,2-Dichloropropane	mg/l	0.0500	0.0578	116	45 - 145	6602
1,1-Dichloropropene	mg/l	0.0500	0.0539	108	76 - 127	6126

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloropropene	mg/l	0.0500	0.0539	108	76 - 127	6602
1,1-Dichloropropene	mg/l	0.0500	0.0631	126	76 - 127	6602
cis-1,3-Dichloropropene	mg/l	0.0500	0.0493	99	72 - 131	6126
cis-1,3-Dichloropropene	mg/l	0.0500	0.0493	99	72 - 131	6602
cis-1,3-Dichloropropene	mg/l	0.0500	0.0513	103	72 - 131	6602
trans-1,3-Dichloropropene	mg/l	0.0500	0.0501	100	69 - 131	6126
trans-1,3-Dichloropropene	mg/l	0.0500	0.0501	100	69 - 131	6602
trans-1,3-Dichloropropene	mg/l	0.0500	0.0541	108	69 - 131	6602
Ethylbenzene	mg/l	0.0500	0.0443	89	78 - 125	6126
Ethylbenzene	mg/l	0.0500	0.0443	89	78 - 125	6602
Ethylbenzene	mg/l	0.0500	0.0506	101	78 - 125	6602
Hexachlorobutadiene	mg/l	0.0500	0.0512	102	59 - 126	6126
Hexachlorobutadiene	mg/l	0.0500	0.0512	102	59 - 126	6602
Hexachlorobutadiene	mg/l	0.0500	0.0529	106	59 - 126	6602
2-Hexanone	mg/l	0.250	0.238	95	71 - 142	6126
2-Hexanone	mg/l	0.250	0.238	95	71 - 142	6602
2-Hexanone	mg/l	0.250	0.231	92	71 - 142	6602
Isopropylbenzene	mg/l	0.0500	0.0441	88	78 - 123	6126
Isopropylbenzene	mg/l	0.0500	0.0441	88	78 - 123	6602
Isopropylbenzene	mg/l	0.0500	0.0498	100	78 - 123	6602
4-Isopropyltoluene	mg/l	0.0500	0.0513	103	73 - 125	6126
4-Isopropyltoluene	mg/l	0.0500	0.0513	103	73 - 125	6602
4-Isopropyltoluene	mg/l	0.0500	0.0558	112	73 - 125	6602
4-Methyl-2-pentanone	mg/l	0.250	0.241	96	71 - 141	6126
4-Methyl-2-pentanone	mg/l	0.250	0.241	96	71 - 141	6602
4-Methyl-2-pentanone	mg/l	0.250	0.233	93	71 - 141	6602
Methylene chloride	mg/l	0.0500	0.0472	94	70 - 140	6126
Methylene chloride	mg/l	0.0500	0.0472	94	70 - 140	6602
Methylene chloride	mg/l	0.0500	0.0547	109	70 - 140	6602
Naphthalene	mg/l	0.0500	0.0504	101	52 - 140	6126
Naphthalene	mg/l	0.0500	0.0504	101	52 - 140	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Page: 7

Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.0500	0.0512	102	52 - 140	6602
n-Propylbenzene	mg/l	0.0500	0.0467	93	75 - 125	6126
n-Propylbenzene	mg/l	0.0500	0.0467	93	75 - 125	6602
n-Propylbenzene	mg/l	0.0500	0.0490	98	75 - 125	6602
Styrene	mg/l	0.0500	0.0453	91	82 - 122	6126
Styrene	mg/l	0.0500	0.0453	91	82 - 122	6602
Styrene	mg/l	0.0500	0.0511	102	82 - 122	6602
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0510	102	85 - 123	6126
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0510	102	85 - 123	6602
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0599	120	85 - 123	6602
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0482	96	74 - 133	6126
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0482	96	74 - 133	6602
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0494	99	74 - 133	6602
Tetrachloroethene	mg/l	0.0500	0.0476	95	76 - 123	6126
Tetrachloroethene	mg/l	0.0500	0.0476	95	76 - 123	6602
Tetrachloroethene	mg/l	0.0500	0.0539	108	76 - 123	6602
Toluene	mg/l	0.0500	0.0411	82	78 - 127	6126
Toluene	mg/l	0.0500	0.0411	82	78 - 127	6602
Toluene	mg/l	0.0500	0.0496	99	78 - 127	6602
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0547	109	59 - 132	6126
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0547	109	59 - 132	6602
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0580	116	59 - 132	6602
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0572	114	60 - 133	6126
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0572	114	60 - 133	6602
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0596	119	60 - 133	6602
1,1,1-Trichloroethane	mg/l	0.0500	0.0527	105	74 - 128	6126
1,1,1-Trichloroethane	mg/l	0.0500	0.0527	105	74 - 128	6602
1,1,1-Trichloroethane	mg/l	0.0500	0.0648	130 #	74 - 128	6602
1,1,2-Trichloroethane	mg/l	0.0500	0.0472	94	85 - 125	6126
1,1,2-Trichloroethane	mg/l	0.0500	0.0472	94	85 - 125	6602
1,1,2-Trichloroethane	mg/l	0.0500	0.0555	111	85 - 125	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Trichloroethene	mg/l	0.0500	0.0604	121	78 - 125	6609
Trichloroethene	mg/l	0.0500	0.0636	127 #	78 - 125	6609
Trichloroethene	mg/l	0.0500	0.0590	118	78 - 125	6613
Trichloroethene	mg/l	0.0500	0.0590	118	78 - 125	6960
1,2,3-Trichloropropane	mg/l	0.0500	0.0513	103	75 - 130	6126
1,2,3-Trichloropropane	mg/l	0.0500	0.0513	103	75 - 130	6602
1,2,3-Trichloropropane	mg/l	0.0500	0.0518	104	75 - 130	6602
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0448	90	77 - 122	6126
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0448	90	77 - 122	6602
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0481	96	77 - 122	6602
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0443	89	75 - 125	6126
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0443	89	75 - 125	6602
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0483	97	75 - 125	6602
Vinyl chloride	mg/l	0.0500	0.0446	89	61 - 140	6602
Vinyl chloride	mg/l	0.0500	0.0526	105	61 - 140	6602
Vinyl chloride	mg/l	0.0500	0.0511	102	61 - 140	6609
Vinyl chloride	mg/l	0.0500	0.0521	104	61 - 140	6609
Xylenes (Total)	mg/l	0.150	0.141	94	77 - 126	6126
Xylenes (Total)	mg/l	0.150	0.141	94	77 - 126	6602
Xylenes (Total)	mg/l	0.150	0.159	106	77 - 126	6602
Bromodichloromethane	mg/l	0.0500	0.0490	98	79 - 126	6126
Bromodichloromethane	mg/l	0.0500	0.0490	98	79 - 126	6602
Bromodichloromethane	mg/l	0.0500	0.0587	117	79 - 126	6602
Trichlorofluoromethane	mg/l	0.0500	0.0466	93	60 - 140	6126
Trichlorofluoromethane	mg/l	0.0500	0.0466	93	60 - 140	6602
Trichlorofluoromethane	mg/l	0.0500	0.0569	114	60 - 140	6602

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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VOA Surr 1,2-DCA-d4	1 Rec	120	73 - 133	6609
VOA Surr 1,2-DCA-d4	1 Rec	124	73 - 133	6609
VOA Surr 1,2-DCA-d4	1 Rec	114	73 - 133	6613
VOA Surr 1,2-DCA-d4	1 Rec	114	73 - 133	6960
VOA Surr Toluene-d8	1 Rec	90	80 - 121	6609
VOA Surr Toluene-d8	1 Rec	98	80 - 121	6609
VOA Surr Toluene-d8	1 Rec	87	80 - 121	6613
VOA Surr Toluene-d8	1 Rec	87	80 - 121	6960
VOA Surr, 4-BFB	1 Rec	96	80 - 128	6609
VOA Surr, 4-BFB	1 Rec	95	80 - 128	6609
VOA Surr, 4-BFB	1 Rec	89	80 - 128	6613
VOA Surr, 4-BFB	1 Rec	89	80 - 128	6960
VOA Surr, DBFM	1 Rec	116	81 - 121	6609
VOA Surr, DBFM	1 Rec	122	81 - 121	6609
VOA Surr, DBFM	1 Rec	112	81 - 121	6613
VOA Surr, DBFM	1 Rec	112	81 - 121	6960

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00470	mg/l	6126	12/13/02	14:36
Acetone	< 0.00470	mg/l	6602	12/13/02	14:36
Acetone	< 0.00470	mg/l	6602	12/14/02	1:32
Benzene	< 0.0005	mg/l	6126	12/13/02	14:36
Benzene	< 0.0005	mg/l	6602	12/13/02	14:36
Benzene	< 0.0005	mg/l	6602	12/14/02	1:32
Bromobenzene	< 0.00030	mg/l	6126	12/13/02	14:36
Bromobenzene	< 0.00030	mg/l	6602	12/13/02	14:36
Bromobenzene	< 0.00030	mg/l	6602	12/14/02	1:32
Bromochloromethane	< 0.00030	mg/l	6126	12/13/02	14:36
Bromochloromethane	< 0.00030	mg/l	6602	12/13/02	14:36
Bromochloromethane	< 0.00030	mg/l	6602	12/14/02	1:32
Bromoform	< 0.00060	mg/l	6126	12/13/02	14:36

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromoform	< 0.00060	mg/l	6602	12/13/02	14:36
Bromoform	< 0.00060	mg/l	6602	12/14/02	1:32
Bromomethane	< 0.00060	mg/l	6126	12/13/02	14:36
Bromomethane	< 0.00060	mg/l	6602	12/13/02	14:36
Bromomethane	< 0.00060	mg/l	6602	12/14/02	1:32
2-Butanone	< 0.00310	mg/l	6126	12/13/02	14:36
2-Butanone	< 0.00310	mg/l	6602	12/13/02	14:36
2-Butanone	< 0.00310	mg/l	6602	12/14/02	1:32
n-Butylbenzene	< 0.00010	mg/l	6126	12/13/02	14:36
n-Butylbenzene	< 0.00010	mg/l	6602	12/13/02	14:36
n-Butylbenzene	< 0.00010	mg/l	6602	12/14/02	1:32
sec-Butylbenzene	< 0.00030	mg/l	6126	12/13/02	14:36
sec-Butylbenzene	< 0.00030	mg/l	6602	12/13/02	14:36
sec-Butylbenzene	< 0.00030	mg/l	6602	12/14/02	1:32
t-Butylbenzene	< 0.00030	mg/l	6126	12/13/02	14:36
t-Butylbenzene	< 0.00030	mg/l	6602	12/13/02	14:36
t-Butylbenzene	< 0.00030	mg/l	6602	12/14/02	1:32
Carbon disulfide	< 0.00020	mg/l	6126	12/13/02	14:36
Carbon disulfide	< 0.00020	mg/l	6602	12/13/02	14:36
Carbon disulfide	< 0.00020	mg/l	6602	12/14/02	1:32
Carbon tetrachloride	< 0.00040	mg/l	6126	12/13/02	14:36
Carbon tetrachloride	< 0.00040	mg/l	6602	12/13/02	14:36
Carbon tetrachloride	< 0.00040	mg/l	6602	12/14/02	1:32
Chlorobenzene	< 0.00020	mg/l	6126	12/13/02	14:36
Chlorobenzene	< 0.00020	mg/l	6602	12/13/02	14:36
Chlorobenzene	< 0.00020	mg/l	6602	12/14/02	1:32
Chloroethane	< 0.00100	mg/l	6126	12/13/02	14:36
Chloroethane	< 0.00100	mg/l	6602	12/13/02	14:36
Chloroethane	< 0.00100	mg/l	6602	12/14/02	1:32
Chloroform	< 0.00080	mg/l	6126	12/13/02	14:36
Chloroform	< 0.00080	mg/l	6602	12/13/02	14:36

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloroform	< 0.00080	mg/l	6602	12/14/02	1:32
Chloromethane	< 0.00070	mg/l	6126	12/13/02	14:36
Chloromethane	< 0.00070	mg/l	6602	12/13/02	14:36
Chloromethane	< 0.00070	mg/l	6602	12/14/02	1:32
2-Chlorotoluene	< 0.00040	mg/l	6126	12/13/02	14:36
2-Chlorotoluene	< 0.00040	mg/l	6602	12/13/02	14:36
2-Chlorotoluene	< 0.00040	mg/l	6602	12/14/02	1:32
4-Chlorotoluene	< 0.00050	mg/l	6126	12/13/02	14:36
4-Chlorotoluene	< 0.00050	mg/l	6602	12/13/02	14:36
4-Chlorotoluene	< 0.00050	mg/l	6602	12/14/02	1:32
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6126	12/13/02	14:36
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6602	12/13/02	14:36
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6602	12/14/02	1:32
Dibromochloromethane	< 0.00050	mg/l	6126	12/13/02	14:36
Dibromochloromethane	< 0.00050	mg/l	6602	12/13/02	14:36
Dibromochloromethane	< 0.00050	mg/l	6602	12/14/02	1:32
1,2-Dibromoethane	< 0.00040	mg/l	6126	12/13/02	14:36
1,2-Dibromoethane	< 0.00040	mg/l	6602	12/13/02	14:36
1,2-Dibromoethane	< 0.00040	mg/l	6602	12/14/02	1:32
Dibromomethane	< 0.00090	mg/l	6126	12/13/02	14:36
Dibromomethane	< 0.00090	mg/l	6602	12/13/02	14:36
Dibromomethane	< 0.00090	mg/l	6602	12/14/02	1:32
1,2-Dichlorobenzene	< 0.00020	mg/l	6126	12/13/02	14:36
1,2-Dichlorobenzene	< 0.00020	mg/l	6602	12/13/02	14:36
1,2-Dichlorobenzene	< 0.00020	mg/l	6602	12/14/02	1:32
1,3-Dichlorobenzene	< 0.00030	mg/l	6126	12/13/02	14:36
1,3-Dichlorobenzene	< 0.00030	mg/l	6602	12/13/02	14:36
1,3-Dichlorobenzene	< 0.00030	mg/l	6602	12/14/02	1:32
1,4-Dichlorobenzene	< 0.00040	mg/l	6126	12/13/02	14:36
1,4-Dichlorobenzene	< 0.00040	mg/l	6602	12/13/02	14:36
1,4-Dichlorobenzene	< 0.00040	mg/l	6602	12/14/02	1:32

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dichlorodifluoromethane	< 0.00050	mg/l	6126	12/13/02	14:36
Dichlorodifluoromethane	< 0.00050	mg/l	6602	12/13/02	14:36
Dichlorodifluoromethane	< 0.00050	mg/l	6602	12/14/02	1:32
1,1-Dichloroethane	< 0.00020	mg/l	6126	12/13/02	14:36
1,1-Dichloroethane	< 0.00020	mg/l	6602	12/13/02	14:36
1,1-Dichloroethane	< 0.00020	mg/l	6602	12/14/02	1:32
1,2-Dichloroethane	< 0.00060	mg/l	6126	12/13/02	14:36
1,2-Dichloroethane	< 0.00060	mg/l	6602	12/13/02	14:36
1,2-Dichloroethane	< 0.00060	mg/l	6602	12/14/02	1:32
1,1-Dichloroethene	< 0.00060	mg/l	6126	12/13/02	14:36
1,1-Dichloroethene	< 0.00060	mg/l	6602	12/13/02	14:36
1,1-Dichloroethene	< 0.00060	mg/l	6602	12/14/02	1:32
cis-1,2-Dichloroethene	< 0.00060	mg/l	6602	12/13/02	14:36
cis-1,2-Dichloroethene	< 0.00060	mg/l	6602	12/14/02	1:32
cis-1,2-Dichloroethene	< 0.00060	mg/l	6609	12/14/02	15:33
cis-1,2-Dichloroethene	< 0.00060	mg/l	6609	12/15/02	1:34
cis-1,2-Dichloroethene	< 0.00060	mg/l	6613	12/16/02	12:06
trans-1,2-Dichloroethene	< 0.00050	mg/l	6602	12/13/02	14:36
trans-1,2-Dichloroethene	< 0.00050	mg/l	6602	12/14/02	1:32
trans-1,2-Dichloroethene	< 0.00050	mg/l	6609	12/14/02	15:33
trans-1,2-Dichloroethene	< 0.00050	mg/l	6609	12/15/02	1:34
1,2-Dichloropropane	< 0.00040	mg/l	6126	12/13/02	14:36
1,2-Dichloropropane	< 0.00040	mg/l	6602	12/13/02	14:36
1,2-Dichloropropane	< 0.00040	mg/l	6602	12/14/02	1:32
1,3-Dichloropropane	< 0.00040	mg/l	6126	12/13/02	14:36
1,3-Dichloropropane	< 0.00040	mg/l	6602	12/13/02	14:36
1,3-Dichloropropane	< 0.00040	mg/l	6602	12/14/02	1:32
2,2-Dichloropropane	< 0.00040	mg/l	6126	12/13/02	14:36
2,2-Dichloropropane	< 0.00040	mg/l	6602	12/13/02	14:36
2,2-Dichloropropane	< 0.00040	mg/l	6602	12/14/02	1:32
1,1-Dichloropropene	< 0.00050	mg/l	6126	12/13/02	14:36

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1-Dichloropropene	< 0.00050	mg/l	6602	12/13/02	14:36
1,1-Dichloropropene	< 0.00050	mg/l	6602	12/14/02	1:32
cis-1,3-Dichloropropene	< 0.00030	mg/l	6126	12/13/02	14:36
cis-1,3-Dichloropropene	< 0.00030	mg/l	6602	12/13/02	14:36
cis-1,3-Dichloropropene	< 0.00030	mg/l	6602	12/14/02	1:32
trans-1,3-Dichloropropene	< 0.00050	mg/l	6126	12/13/02	14:36
trans-1,3-Dichloropropene	< 0.00050	mg/l	6602	12/13/02	14:36
trans-1,3-Dichloropropene	< 0.00050	mg/l	6602	12/14/02	1:32
Ethylbenzene	< 0.0003	mg/l	6126	12/13/02	14:36
Ethylbenzene	< 0.0003	mg/l	6602	12/13/02	14:36
Ethylbenzene	< 0.0003	mg/l	6602	12/14/02	1:32
Hexachlorobutadiene	< 0.00080	mg/l	6126	12/13/02	14:36
Hexachlorobutadiene	< 0.00080	mg/l	6602	12/13/02	14:36
Hexachlorobutadiene	< 0.00080	mg/l	6602	12/14/02	1:32
2-Hexanone	< 0.00420	mg/l	6126	12/13/02	14:36
2-Hexanone	< 0.00420	mg/l	6602	12/13/02	14:36
2-Hexanone	< 0.00420	mg/l	6602	12/14/02	1:32
Isopropylbenzene	< 0.00040	mg/l	6126	12/13/02	14:36
Isopropylbenzene	< 0.00040	mg/l	6602	12/13/02	14:36
Isopropylbenzene	< 0.00040	mg/l	6602	12/14/02	1:32
4-Isopropyltoluene	< 0.00060	mg/l	6126	12/13/02	14:36
4-Isopropyltoluene	< 0.00060	mg/l	6602	12/13/02	14:36
4-Isopropyltoluene	< 0.00060	mg/l	6602	12/14/02	1:32
4-Methyl-2-pentanone	< 0.00490	mg/l	6126	12/13/02	14:36
4-Methyl-2-pentanone	< 0.00490	mg/l	6602	12/13/02	14:36
4-Methyl-2-pentanone	< 0.00490	mg/l	6602	12/14/02	1:32
Methylene chloride	< 0.00240	mg/l	6126	12/13/02	14:36
Methylene chloride	< 0.00240	mg/l	6602	12/13/02	14:36
Methylene chloride	< 0.00240	mg/l	6602	12/14/02	1:32
Naphthalene	< 0.00120	mg/l	6126	12/13/02	14:36
Naphthalene	< 0.00120	mg/l	6602	12/13/02	14:36

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	6602	12/14/02	1:32
n-Propylbenzene	< 0.00030	mg/l	6126	12/13/02	14:36
n-Propylbenzene	< 0.00030	mg/l	6602	12/13/02	14:36
n-Propylbenzene	< 0.00030	mg/l	6602	12/14/02	1:32
Styrene	< 0.00040	mg/l	6126	12/13/02	14:36
Styrene	< 0.00040	mg/l	6602	12/13/02	14:36
Styrene	< 0.00040	mg/l	6602	12/14/02	1:32
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6126	12/13/02	14:36
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6602	12/13/02	14:36
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6602	12/14/02	1:32
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6126	12/13/02	14:36
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6602	12/13/02	14:36
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6602	12/14/02	1:32
Tetrachloroethene	< 0.00040	mg/l	6126	12/13/02	14:36
Tetrachloroethene	< 0.00040	mg/l	6602	12/13/02	14:36
Tetrachloroethene	< 0.00040	mg/l	6602	12/14/02	1:32
Toluene	< 0.0006	mg/l	6126	12/13/02	14:36
Toluene	< 0.0006	mg/l	6602	12/13/02	14:36
Toluene	< 0.0006	mg/l	6602	12/14/02	1:32
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6126	12/13/02	14:36
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6602	12/13/02	14:36
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6602	12/14/02	1:32
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6126	12/13/02	14:36
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6602	12/13/02	14:36
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6602	12/14/02	1:32
1,1,1-Trichloroethane	< 0.00070	mg/l	6126	12/13/02	14:36
1,1,1-Trichloroethane	< 0.00070	mg/l	6602	12/13/02	14:36
1,1,1-Trichloroethane	< 0.00070	mg/l	6602	12/14/02	1:32
1,1,2-Trichloroethane	< 0.00040	mg/l	6126	12/13/02	14:36
1,1,2-Trichloroethane	< 0.00040	mg/l	6602	12/13/02	14:36
1,1,2-Trichloroethane	< 0.00040	mg/l	6602	12/14/02	1:32

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

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Project Name: FORMER TAYLOR INSTRUMENT

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Laboratory Receipt Date: 12/11/02

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichloroethene	< 0.00040	mg/l	6609	12/14/02	15:33
Trichloroethene	< 0.00040	mg/l	6609	12/15/02	1:34
Trichloroethene	< 0.00040	mg/l	6613	12/16/02	12:06
Trichloroethene	< 0.00040	mg/l	6960	12/16/02	12:06
1,2,3-Trichloropropane	< 0.00060	mg/l	6126	12/13/02	14:36
1,2,3-Trichloropropane	< 0.00060	mg/l	6602	12/13/02	14:36
1,2,3-Trichloropropane	< 0.00060	mg/l	6602	12/14/02	1:32
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6126	12/13/02	14:36
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6602	12/13/02	14:36
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6602	12/14/02	1:32
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6126	12/13/02	14:36
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6602	12/13/02	14:36
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6602	12/14/02	1:32
Vinyl chloride	< 0.00050	mg/l	6602	12/13/02	14:36
Vinyl chloride	< 0.00050	mg/l	6602	12/14/02	1:32
Vinyl chloride	< 0.00050	mg/l	6609	12/14/02	15:33
Vinyl chloride	< 0.00050	mg/l	6609	12/15/02	1:34
Xylenes (Total)	< 0.0009	mg/l	6126	12/13/02	14:36
Xylenes (Total)	< 0.0009	mg/l	6602	12/13/02	14:36
Xylenes (Total)	< 0.0009	mg/l	6602	12/14/02	1:32
Bromodichloromethane	< 0.00030	mg/l	6126	12/13/02	14:36
Bromodichloromethane	< 0.00030	mg/l	6602	12/13/02	14:36
Bromodichloromethane	< 0.00030	mg/l	6602	12/14/02	1:32
Trichlorofluoromethane	< 0.00040	mg/l	6126	12/13/02	14:36
Trichlorofluoromethane	< 0.00040	mg/l	6602	12/13/02	14:36
Trichlorofluoromethane	< 0.00040	mg/l	6602	12/14/02	1:32

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.07

Project Name: FORMER TAYLOR INSTRUMENT

Page: 16

Laboratory Receipt Date: 12/11/02

VOA Surr 1,2-DCA-d4	117.	# Rec	6609	12/14/02	15:33
VOA Surr 1,2-DCA-d4	121.	# Rec	6609	12/15/02	1:34
VOA Surr 1,2-DCA-d4	121.	# Rec	6613	12/16/02	12:06
VOA Surr 1,2-DCA-d4	121.	# Rec	6960	12/16/02	12:06
VOA Surr Toluene-d8	89.	# Rec	6609	12/14/02	15:33
VOA Surr Toluene-d8	98.	# Rec	6609	12/15/02	1:34
VOA Surr Toluene-d8	91.	# Rec	6613	12/16/02	12:06
VOA Surr Toluene-d8	91.	# Rec	6960	12/16/02	12:06
VOA Surr, 4-BFB	87.	# Rec	6609	12/14/02	15:33
VOA Surr, 4-BFB	93.	# Rec	6609	12/15/02	1:34
VOA Surr, 4-BFB	91.	# Rec	6613	12/16/02	12:06
VOA Surr, 4-BFB	91.	# Rec	6960	12/16/02	12:06
VOA Surr, DBFM	108.	# Rec	6609	12/14/02	15:33
VOA Surr, DBFM	119.	# Rec	6609	12/15/02	1:34
VOA Surr, DBFM	119.	# Rec	6613	12/16/02	12:06
VOA Surr, DBFM	119.	# Rec	6960	12/16/02	12:06

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 312756

APPENDIX C

CHAIN-OF-CUSTODY FORMS

Test America

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

311 785

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1022 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Peavler

Sampler Signature: Janna Peavler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Peavler

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

TAT ☒ Standard ☐ Rush (surcharges may apply)	Date Needed: _____	Fax Results: Y ☒ (N)	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										QC Deliverables
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC (8260)	Chloride (325.1)	Alkalinity (310.1)	Carbon Dioxide (4008)	Nitrate (353.2)	Sulfate (375.4)	Sulfide (376.1)	Methane/Ethane/ Ethene (8015M)	TOC (415.1)	Fe (11) 6010E	☒ None ☐ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other: _____	
SAMPLE ID																									REMARKS	
QATB01	198865		12/3/02	10:00	G		GW		1						1										trip blank	
QAFB01	866		12/3/02	17:25	G		GW		3						3										field blank	
QARB01	867		12/3/02	17:35	G		GW		3						3										rinse blank	
W-2	198868		12/4/02	8:45	G		GW					4				1	1	2								
TW-04	869		12/4/02	10:00	G		GW		9	1		6			3	1	1	2	1	1	1	3	2	1		
TW-17	870		12/4/02	14:31	G		GW		9	1		6			3	1	1	2	1	1	1	3	2	1		
TW-20	871		12/4/02	14:05	G		GW		9	1		6			3	1	1	2	1	1	1	3	2	1		
TW-07	872		12/4/02	15:52	G		GW		9	1		6			3	1	1	2	1	1	1	3	2	1		

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Relinquished By: <u>Janna Peavler</u>	Date: <u>12/4/02</u>	Time: <u>17:00</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>CR</u>	Date: <u>12/5</u>	Time: <u>9:00</u>

Custody Seals: Y N N/A

Bottles Supplied by Test America: X N

Fax COC to
Method of Shipment: Knoxville Office

Fax # (865) 693-4

312028

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Pick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Pevler

Sampler Signature: Janna Pevler

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Pick Ryan Janna Pevler

Invoice To: Pick Ryan

Quote #: 102501.2162.39 PO#: 6599

TAT ☒ Standard ☐ Rush (surcharges may apply)	Date Needed:	Fax Results: Y <u>(N)</u>	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other:	REMARKS
									HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC (8260)	Chloride (325.1)	Alkalinity (310.1)	Carbon dioxide (4520B)	Nitrate (353.2)	Sulfate (375.4)	Sulfide (376.1)	Methane/ethane/ethene (8015H)	TDC (415.1)	Fe(II) (6010F)			
			TW-09	2/5/02	838	G		GN	3	1		6					3	1	1	2	1	1	1	3	2	1	199716	
			OB-09	12/5/02	1006	G		GN	3	1		6					3	1	1	2	1	1	1	3	2	1	1717	
			OB-07	2/5/02	1128	G		GN	3	1		6					3	1	1	2	1	1	1	3	2	1	199715	
			OB-07 (MS)	2/5/02	1150	G		GN	3								3										matrix spike	
			OB-07 (MSD)	2/5/02	1150	G		GN	3								3										m.s. spike dup.	
			W-5	2/5/02	1428	G		GN	3	1		6					3	1	1	2	1	1	1	3	2	1	199718	
			W-5 (dup)	2/5/02	1439	G		GN	3								3										199714	
Special Instructions:																												
LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N N/A Bottles Supplied by Test America: Y N Fax COC to Method of Shipment: Knoxville Office																												
Relinquished By: <u>Janna Pevler</u>				Date: <u>12/5/02</u>		Time: <u>17:00</u>		Received By:				Date:		Time:														
Relinquished By:				Date:		Time:		Received By:				Date:		Time:														
Relinquished By:				Date:		Time:		Received By: <u>[Signature]</u>				Date: <u>12/6</u>		Time: <u>9:20</u>														

Fax # (865) 693-4723

ment: Fax COC to
Knoxville 6-66
Fax # (865) 695-472



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

312524

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: Mactec Client #: 4997

Address: 1431 Center Point Blvd Suite 150

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: 865.531.1922 Fax: 865.531.8226

Sampler Name: (Print Name) Janna Peever

Sampler Signature: Janna Peever

Project Name: Former Taylor Instruments

Project #: 51870.7

Site/Location ID: Rochester State: NY

Report To: Rick Ryan Janna Peever

Invoice To: Rick Ryan

Quote #: 102501.216.2.99 PO#: 6599

TAT ____ Standard ____ Rush (surcharges may apply)		Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For:										QC Deliverables ____ None ____ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Date Needed: _____							HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Fax Results: Y N		SAMPLE ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Relinquished By: Janna Peever

Date: 12/9/02

Time: 1700

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By: C. W. H.

Date: 12.10.02

Time: 0900

Method of Shipment:

Custody Seals: Y N N/A

Bottles Supplied by Test America: Y N

Fax COC to

Knoxville Office

Fax # (865) 693-4723

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

312756

Client Name: Martec Client #: 4997
Address: 1431 Center Point Blvd Suite 150
City/Zip Code: Knoxville TN 37932
Project Manager: Rick Ryan
Phone Number: 865.531.1922 Fax: 865.531.8226
(Print Name) Janna Beever
Operator Signature: [Signature]

Project Name: Former Taylor Instruments
Project #: 51870.7
Site/Location ID: Rochester State: NY
Report To: Pick Ryan Janna Peevler
Invoice To: Pick Ryan
Quote #: 102501.216.2.99 PO#: 60599

[illegible]

Fax # (865) 438-4723

APPENDIX D

FIELD DATA RECORDS

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/3/02

SITE TYPE	Monitor Well
-----------	--------------

SITE ACTIVITY	START 810	END 815	JOB NUMBER	51870.7
---------------	-----------	---------	------------	---------

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	_____ FT
---	----------

PROTECTIVE CASING / WELL DIFFERENCE	FT
---	----

WELL DEPTH FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER		IN
------------------	--	----

SCREEN LENGTH FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	___	___	___
CASING	___	___	___
LOCKED	___	___	___
COLLAR	___	___	___

DRAWDOWN
VOLUME _____ GAL

PRODUCT THICKNESS _____ FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE

☐ STAINLESS STEEL

☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER _____

PURGE OBSERVATIONS

NOTES

Trip blank
time listed as 0:00

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
------------	---------

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

SIGNATURE _____

field blank collected
at 17:25

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/3/02

SITE TYPE	Monitor Well
-----------	--------------

JOB NUMBER	51870.7
------------	---------

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FT
---	----

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

PID	PPM
AMBIENT AIR	

WELL DIAMETER	
------------------	--

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

RAWDOWN VOLUME	GAL
-------------------	-----

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L.)

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

PURGE OBSERVATIONS

NOTES

Rinse blank -
Collected off rebar
at 17:35

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER 51870.7

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

SIGNATURE:

RE: Janna Leach

Trip blank
time 0:00

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER 51870.7

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

NOTES

rinse blank
collected off tubing
@ 11:10

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER 51870.7

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

☐ TEFLON

☐ OTHER _____

GW_Sample_Form.xls

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/9/02

SITE ID OB-04

SITE TYPE Monitor Well

SITE ACTIVITY START 910 END 1010

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 4.85 FT

WELL DEPTH 16.45 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 5.03 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN 0.18 FT

DRAWDOWN VOLUME 0.03 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 917

END PURGING 1004

TOTAL VOL. PURGED 0.94 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
9:39	1.69	8.30	0.61	45	16.25	4.03	-5.00	17 ≈77 mL/min
945	2.23	8.29	0.62	47	16.57	4.43	-5.00	18 ≈77 mL/min
953	2.84	8.30	0.63	43	17.17	4.19	-5.00	20 ≈77 mL/min
959	3.38	8.30	0.64	42	17.46	4.23	-5.00	14 ≈77 mL/min
1002	Horiba down well collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

939 DTW 5.00
945 DTW = 5.00
953 DTW = 5.05
959 DTW = 5.05

SIGNATURE:

John Peeder

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/9/02

SITE ID OB-05

SITE TYPE Monitor Well

SITE ACTIVITY START 4:05 END 1505

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 13.64 FT

WELL DEPTH 17.50 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 13.91 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: YES NO N/A
CAP X
CASING X
LOCKED X
COLLAR X

DRAWDOWN 0.27 FT

DRAWDOWN VOLUME 0.04 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

JP

PURGE RATE 0.07 L/MIN

BEGIN PURGING 14:05

END PURGING 1500

TOTAL VOL. PURGED 0.87 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1428	1.00	7.22	3.42	14	15.43 2.08	-4.32	-41	≈ 77 ml/min
1436	1.59	7.22	3.39	11	15.56 1.92	-4.20	-41	≈ 74 ml/min
1443	2.11	7.23	3.47	9	16.03 2.38	-4.62	-38	≈ 74 ml/min
1451	2.70	7.23	3.50	9	16.37 2.75	-4.67	-27	≈ 74 ml/min
1454	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1428 DTW = 13.86
1436 DTW = 13.92
1443 DTW = 13.94
1451 DTW = 13.96

SIGNATURE

Janina Leuter

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/4/02

SITE TYPE	Monitor Well
-----------	--------------

JOB NUMBER	51870.7
------------	---------

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐	TOP OF WELL RISER
☐	TOP OF PROTECTIVE CASING
☐	OTHER

PROTECTIVE
CASING STICKUP
(FROM GROUND)

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

INITIAL DEPTH TO WATER	5.61	FT
---------------------------	------	----

WELL DEPTH 16.45 FT

PID	
AMBIENT AIR	PPM

WELL DIAMETER	
------------------	--

FINAL DEPTH TO WATER	6.38	FT
-------------------------	------	----

SCREEN LENGTH FT

PID WELL	
MOUTH	PPM

WELL :	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN	0.77	FT
----------	------	----

DRAWDOWN VOLUME 0.12 GAL

PRODUCT THICKNESS		FT
-------------------	--	----

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

PURGE RATE 0.09 L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 0.99 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

10:17 DTW = 6.26

10:22 DTW = 6.41

10:27 DTW - 6.54

10:34 DTW = 6.62

10:40 DTW = 6.65

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12-5-02

SITE TYPE	Monitor Well
-----------	--------------

JOB NUMBER	51870.7
------------	---------

MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	
---	--

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

WELL DIAMETER	2
------------------	---

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

PRODUCT THICKNESS		FT
-------------------	--	----

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch}))

TOTAL VOL. PURGED 1.40 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Horizon/Down Well

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER _____

PURGE OBSERVATIONS

NOTES

1103	DTW	7.50
1110	DTW	7.53
1117	DTW	7.57
1124	DTW	7.60

SIGNATURE _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/10/02

SITE TYPE	Monitor Well
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JOB NUMBER	51870.7
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MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	FEET
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PROTECTIVE CASING / WELL DIFFERENCE	
---	--

WELL DIAMETER 2 IN

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	___	___
CASING	<u>X</u>	___	___
LOCKED	<u>X</u>	___	___
COLLAR	<u>X</u>	___	___

PRODUCT THICKNESS	FT
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$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

TOTAL VOL. PURGED 0.79 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

NOTES

SIGNATURE:

NAME: Jenna Peeler

947 DTW 12.21

954 DTW 12.43

1003 DTW 12.72

1011 DTW 12.82

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER 51870.7

TOTAL VOL. PURGED 0.78 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

☐ TEFLON

☐ OTHER _____

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
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TOTAL VOL. PURGED 0.26 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

☐ TEFLON
☐ OTHER

13:51 DTW = 24.25

SIGNATURE:

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/7/02

SITE ID BR-03

SITE TYPE Monitor Well

SITE ACTIVITY START 8:55 END 9:50

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 10.90 FT

WELL DEPTH 42.2 FT

PID AMBIENT AIR PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 11.73 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: YES NO N/A
CAP _____
CASING _____
LOCKED _____
COLLAR _____

DRAWDOWN 0.83 FT

DRAWDOWN VOLUME 0.54 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 9:05

END PURGING 9:48

TOTAL VOL. PURGED 0.90 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
9:18	1.08	7.42	1.84	45	1.80	0.02	-1.00	-147 ≈83 mL/min
9:26	1.72	7.44	1.90	30	1.56	0.02	-2.01	-147 ≈80 mL/min
9:32	2.20	7.53	2.04	25	1.45	0.01	-3.56	-149 ≈80 mL/min
9:38	2.60	7.58	2.04	23	1.55	0.01	-3.30	-154 ≈80 mL/min
9:42	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

9:18 DTW 11.25
9:25 DTW 11.44
9:32 DTW 11.55
9:38 DTW 11.70

SIGNATURE:

Janina Leeder

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/9/02

SITE ID BR-04

SITE TYPE Monitor Well

SITE ACTIVITY START 1010 END 1110

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 21.70 FT

WELL DEPTH 40.80 FT

PID AMBIENT AIR PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 21.70 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES X NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN 0.00 FT

DRAWDOWN VOLUME GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.06 L/MIN

BEGIN PURGING 10:12

END PURGING 11:02

TOTAL VOL. PURGED 0.79 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1026	0.88	7.15	1.96	18	3.96 0.03	-1.55	-116	63 mL/min
1037	1.57	7.15	2.50	6	2.21 0.05	-5.00	-119	63 mL/min
1047	2.16	7.15	2.53	6	1.89 0.03	-5.00	-120	59 mL/min
1055	2.64	7.16	2.48	5	1.84 0.05	-5.00	-122	60 mL/min
1058	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

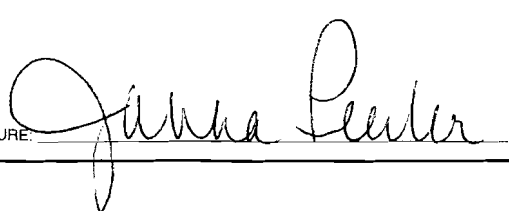
TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1026 DTW = 21.65
1037 DTW = 21.65
1047 DTW = 21.67
1058 DTW = 21.68

SIGNATURE: 

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12 9 02

SITE TYPE	Monitor Well
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JOB NUMBER 51870.7

MEASUREMENT POINT

PROTECTIVE
CASING STICKUP
(FROM GROUND)

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

WELL
DIAMETER

WELL	YES	NO	N/A
INTEGRITY: CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

PRODUCT THICKNESS FT

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

TOTAL VOL. PURGED 0.01 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER _____

PURGE OBSERVATIONS

NOTES

1329 DTW	21.36
1357 DTW	21.36
1344 DTW	21.36
1352 DTW	21.36

SIGNATURE:

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/8/02

SITE ID BR-06

SITE TYPE Monitor Well

SITE ACTIVITY START 8:00 END 9:00

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 14.06 FT

WELL DEPTH 43.55 FT

PID AMBIENT AIR PPM

WELL DIAMETER 4 IN

FINAL DEPTH TO WATER 14.71 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP ☒ YES ☐ NO ☐ N/A
CASING LOCKED ☒
COLLAR ☒

DRAWDOWN 0.65 FT

DRAWDOWN VOLUME 0.42 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 8:07

END PURGING 8:52

TOTAL VOL. PURGED 0.99 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
8:19	1.04	7.48	0.86	20	2.25	0.09	-0.94	≈87 mL/min
8:26	1.64	7.55	0.88	21	1.83	0.05	-1.78	≈87 mL/min
8:32	2.14	7.55	0.89	22	1.72	0.03	-2.00	≈83 mL/min
8:39	2.70	7.52	0.93	18	1.51	0.01	-2.27	≈80 mL/min
8:41	collect samples for 8260							
8:44	collect BR-06 (MS) & BR-06 (MSD)							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

819 DTW = 14.33
826 DTW = 14.45
832 DTW = 14.55
839 DTW = 14.63

SIGNATURE:

[Signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/8/02

SITE TYPE	Monitor Well
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JOB NUMBER	51870.7
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MEASUREMENT POINT

PROTECTIVE CASING STICKUP (FROM GROUND)	_____ FT
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PROTECTIVE CASING / WELL DIFFERENCE	FT
---	----

WELL DEPTH 53.90 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	IN
------------------	----

SCREEN LENGTH		FT
---------------	--	----

[illegible]

WELL	YES	NO	N/A
INTEGRITY: CAP	_____	_____	_____
CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

DRAWDOWN VOLUME	—	GAL
--------------------	---	-----

PRODUCT THICKNESS		FT
-------------------	--	----

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 0.87 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Horiba downwell

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER _____**PURGE OBSERVATIONS**

NOTES

9:21 DTW = 26.06
9:31 DTW = 26.06
9:40 DTW = 26.07
9:49 DTW = 26.07

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
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TOTAL VOL. PURGED 0.92 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER

NOTES

12:46 DTW = 23.94
12:55 DTW = 24.11
13:04 DTW = 24.32
13:13 DTW = 24.51

SIGNATURE: _____

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/10/02

SITE ID BR-09

SITE TYPE Monitor Well

SITE ACTIVITY START 815 END 920

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 21.22 FT

WELL DEPTH 49.40 FT

PID AMBIENT AIR PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 21.51 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES X NO N/A

DRAWDOWN 0.29 FT

DRAWDOWN VOLUME 0.44 GAL

PRODUCT THICKNESS FT

CASING LOCKED X COLLAR X

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 830

END PURGING 915

TOTAL VOL. PURGED 0.80 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
845	1.11	7.26	2.38	25	2.87	0.94	-3.63	-4 ≈ 74 mL/min
853	1.64	7.32	2.59	21	2.44	0.79	-4.49	-2 ≈ 67 mL/min
901	2.21	7.32	2.68	16	2.30	0.53	-4.71	-7 ≈ 71 mL/min
909	2.71	7.31	2.72	9	2.18	0.61	-4.94	-6 ≈ 63 mL/min
911	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

845 DTW = 21.23
853 DTW = 21.24
901 DTW = 21.25
909 DTW = 21.67

SIGNATURE:

John P. Leuter

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/8/02

SITE ID BE-10

SITE TYPE Monitor Well

SITE ACTIVITY START 800 END 905

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 21.38 FT

WELL DEPTH 50.25 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER 21.45 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING LOCKED
COLLAR

DRAWDOWN 0.07 FT

DRAWDOWN VOLUME 0.11 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.06 L/MIN

BEGIN PURGING 808

END PURGING 858

TOTAL VOL. PURGED 0.73 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
823	0.88	7.42	0.82	37	3.14	1.28	-39	≈ 59 mL/min
832	1.38	7.47	1.26	31	2.26	0.25	-56	≈ 55 mL/min
842	1.94	7.48	1.36	28	2.17	0.35	-63	≈ 55 mL/min
851	2.44	7.49	1.38	25	2.08	0.25	-67	≈ 55 mL/min
854	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

823 DTW = 21.51
832 DTW = 21.51
842 DTW = 21.50
851 DTW = 21.45

SIGNATURE:

Janina Leuter

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

SITE ID BR-11

SITE ACTIVITY START 10:25 END 11:20

DATE 12/10/02

SITE TYPE Monitor Well

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 21.50 FT

WELL DEPTH 57.50 FT

PID AMBIENT AIR _____ PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 21.28 FT

SCREEN LENGTH _____ FT

PID WELL MOUTH _____ PPM

WELL INTEGRITY: CAP ☒ YES ☐ NO ☐ N/A
 CASING ☒ ☐ ☐
 LOCKED ☒ ☐ ☐
 COLLAR ☒ ☐ ☐

DRAWDOWN 0.22 FT

DRAWDOWN VOLUME 0.33 GAL

PRODUCT THICKNESS _____ FT

PURGE RATE 0.07 L/MIN

BEGIN PURGING 10:28

END PURGING 11:14

TOTAL VOL. PURGED 0.77 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA								
Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1043	1.50	7.33	2.70	290	3.66	0.15	-4.06	-107 ≈ 67 mL/min
1051	1.53	7.33	3.04	190	2.45	1.08	-5.00	-104 ≈ 67 mL/min
1059	2.10	7.33	3.09	82	2.16	0.07	-5.00	-105 ≈ 71 mL/min
1106	2.60	7.33	3.14	68	2.05	0.06	-5.00	-106 ≈ 71 mL/min
1109	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

TYPE OF TUBING
☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL
☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

TYPE OF BLADDER MATERIAL (if applicable)
☐ TEFLON
☐ OTHER _____

PURGE OBSERVATIONS

NOTES

1043 DTW 21.40

1051 DTW 21.37

1059 DTW 21.33

1106 DTW 21.31

SIGNATURE: James Leiber

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/8/02

SITE ID BR-12

SITE TYPE Monitor Well

SITE ACTIVITY START 12:55 END 13:55

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 18.59 FT

WELL DEPTH 44.45 FT

PID AMBIENT AIR PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 19.10 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING LOCKED X
COLLAR X

DRAWDOWN 0.51 FT

DRAWDOWN VOLUME 0.77 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 12:57

END PURGING 13:50

TOTAL VOL. PURGED 1.04 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1309	0.96	7.21	2.83	840	1.70 0.03	-0.58	-211	≈ 80 mL/min
1317	1.48	7.20	3.09	990	1.96 0.02	-2.98	-209	≈ 65 mL/min
1325	2.09	7.21	3.15	670	3.66 0.02	-3.11	-190	≈ 77 mL/min
1332	2.63	7.22	3.19	210	2.19 0.01	-3.80	-193	≈ 77 mL/min
1339	3.17	7.22	3.22	120	1.75 0.02	-4.07	-199	≈ 77 mL/min
1342	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1309 DTW = 18.67
1318 DTW = 18.72
1325 DTW = 18.82
1332 DTW = 18.90
1339 DTW = 19.00

SIGNATURE:

John P. Clark

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/8/02

SITE ID BR-13

SITE TYPE Monitor Well

SITE ACTIVITY START 1355 END 1445

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 23.71 FT

WELL DEPTH 78.2 FT

PID AMBIENT AIR PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 23.71 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN FT

DRAWDOWN VOLUME GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 13:58

END PURGING 14:40

TOTAL VOL. PURGED 0.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1408	0.71	7.13	1.63	49	3.72 9.00	0.16	-131	≈ 71 mL/min
1416	1.33	7.12	1.90	17	2.03 8.90	-3.12	-133	≈ 77 mL/min
1423	1.86	7.13	1.93	12	1.74 9.74	-3.40	-135	≈ 77 mL/min
1430	2.40	7.12	2.01	12	1.69 9.53	-4.11	-137	≈ 77 mL/min
1432	collect samples for 8960							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

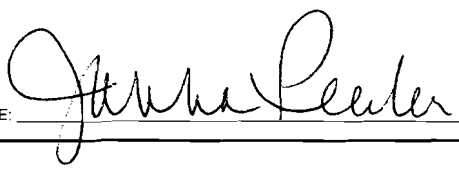
TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

14:08 DTW = 23.72
14:15 DTW = 23.72
14:23 DTW = 23.72
14:30 DTW = 23.72

SIGNATURE: 

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
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TOTAL VOL. PURGED 0.81 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

10:12 DTW = 23.23
10:21 DTW = 22.42
10:28 DTW = 22.64
10:37 DTW = 22.85

SIGNATURE: _____

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/18/02

SITE ID BR-15

SITE TYPE Monitor Well

SITE ACTIVITY START 1450 END 1545

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 23.15 FT

WELL DEPTH 77.75 FT

PID AMBIENT AIR PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 23.42 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP X YES NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN 0.27 FT

DRAWDOWN VOLUME 0.41 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.07 L/MIN

BEGIN PURGING 14:54

END PURGING 1540

TOTAL VOL. PURGED 0.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1507	0.81	7.54	1.80	200	2.89 1.18	-4.10	-150	≈ 74 mL/min
1517	1.39	7.51	1.85	97	2.43 2.02	-4.69	-150	≈ 65 mL/min
1523	1.92	7.51	1.85	57	2.21 1.37	-4.69	-150	≈ 67 mL/min
1531	2.45	7.50	1.86	49	2.10 1.42	-4.70	-152	≈ 67 mL/min
1534	collect samples for 82100							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL, (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1507 DTW = 23.23
1517 DTW = 23.31
1523 DTW = 23.35
1531 DTW = 23.43

SIGNATURE: Jillha Sealer

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
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TOTAL VOL.
PURGED 0.64 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

10:40	DTW	23.10
10:44	DTW	23.12
10:55	DTW	23.20
11:03	DTW	23.25

SIGNATURE: _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	51870.7
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TOTAL VOL. PURGED 1.5 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

☐ TEFLON
☐ OTHER _____

E: Janna Perler

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/6/02

SITE ID W-4

SITE TYPE Monitor Well

SITE ACTIVITY START 7:45 END 8:40

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- ☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)

PROTECTIVE CASING / WELL DIFFERENCE

INITIAL DEPTH TO WATER 9.01 FT

WELL DEPTH 28.84 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER 12.31 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: YES NO N/A
CAP
CASING
LOCKED
COLLAR

DRAWDOWN 3.30 FT

DRAWDOWN VOLUME 0.53 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 7:55

END PURGING 8:35

TOTAL VOL. PURGED 0.84 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
8:08	0.81	7.02	1.47	120	1.97	10.25	5.85	-54 ≈ 62.5 mL/min
8:17	1.62	7.04	1.41	82	2.18	10.56	7.50	-54 ≈ 91 mL/min
8:23	2.14	7.06	1.40	59	2.46	10.63	7.07	-50 ≈ 87 mL/min
8:29	2.64	7.07	1.36	47	2.72	10.62	8.55	-50 ≈ 83 mL/min
8:31	collect samples for 8:260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- ☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

- ☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

- ☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- ☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

8:08 PTW = 10.13
8:17 DTW = 10.90
8:23 DTW = 11.61
8:30 DTW = 12.25

SIGNATURE

[Signature]

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/5/02

SITE ID W-5

SITE TYPE Monitor Well

SITE ACTIVITY START 13:45 END 14:55

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 6.94 FT

WELL DEPTH 21.8 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 8.50 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP X YES NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN 1.56 FT

DRAWDOWN VOLUME 0.25 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.085 L/MIN

BEGIN PURGING 1352

END PURGING 1442

TOTAL VOL. PURGED 1.11 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1404	1.09	7.06	1.01	-5	1.73 / 9.26	14.25	-151	≈ 90 mL/min
1410	1.61	7.08	1.08	-7	1.23 / 9.54	12.24	-152	≈ 87 mL/min
1417	2.19	7.12	1.02	-6	1.96 / 10.02	12.71	-147	≈ 83 mL/min
1424	2.75	7.12	1.03	-5	2.34 / 10.20	12.51	-136	≈ 80 mL/min
1428	collect samples for 8260 & bioparameters							
1439	collect samples for W-5 (dup)							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1404 DTW = 7.93
1410 DTW = 8.20
1417 DTW = 8.41
1424 DTW = 8.55

SIGNATURE Juanita Leeder

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/5/02

SITE ID W-6

SITE TYPE Monitor Well

SITE ACTIVITY START 15:00 END

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

- ☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 5.21 FT

WELL DEPTH 11.30 FT

PID AMBIENT AIR PPM

WELL DIAMETER IN

FINAL DEPTH TO WATER FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING LOCKED
COLLAR

DRAWDOWN FT

DRAWDOWN VOLUME GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE L/MIN

BEGIN PURGING 15:10

END PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
15:22	0.75	12.38	5.17	1	6.58/3.17	12.11	-151	≈ 62.5 ml/min
15:29	1.29	12.44	5.54	-1	6.77/9.92	11.06	-156	≈ 77 ml/min
15:30	cannot minimize drawdown; will purge & sample later							
12/7 14:10	collect samples for 8260							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

- ☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

- ☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

- ☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

- ☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

15:22 DTW = 6.22

15:29 DTW = 7.43

12/7 14:10 DTW = 9.30

SIGNATURE:

John A. Plister

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/4/02

SITE ID TW-04

SITE TYPE Monitor Well

SITE ACTIVITY START 9:20 END

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 10.00 FT

WELL DEPTH 20.72 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 12.10 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING LOCKED X
COLLAR X

DRAWDOWN 2.10 FT

DRAWDOWN VOLUME 0.34 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 9:26

END PURGING 10:20

TOTAL VOL. PURGED 1.14 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
9:37	0.92	7.35	0.88	18	3.58 2.05	12.92	-90	≈ 83 mL/min
9:45	1.59	7.37	0.88	17	3.61 2.19	12.56	-76	≈ 83 mL/min
9:52	2.15	7.36	0.86	15	3.52 1.95	12.45	-75	≈ 80 mL/min
9:58	2.63	7.35	0.87	16	3.47 1.81	12.78	-77	≈ 80 mL/min
10:00	collect samples for 8260 & bioparameters							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

9:37 DTW 10.94
9:45 DTW 11.23
9:52 DTW 11.38
9:58 DTW 11.51

SIGNATURE

[Signature]

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/4/02

SITE ID TW-07

SITE TYPE Monitor Well

SITE ACTIVITY START 15:10 END

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 9.40 FT

WELL DEPTH 20.72 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 10.20 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP ☒ YES ☐ NO ☐ N/A
CASING LOCKED ☒ YES ☐ NO ☐ N/A
COLLAR ☒ YES ☐ NO ☐ N/A

DRAWDOWN 0.8 FT

DRAWDOWN VOLUME 0.13 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 15:15

END PURGING 16:10

TOTAL VOL. PURGED 1.11 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
1526	0.88	6.94	1.87	120	3.12	1.71	11.46	26 ≈ 80 mL/min
1533	1.34	6.93	1.93	80	2.20	1.72	11.11	2 ≈ 77 mL/min
1541	1.96	6.94	1.91	51	2.06	1.33	11.14	-6 ≈ 77 mL/min
1549	2.58	7.01	1.93	34	2.30	1.07	10.16	-10 ≈ 77 mL/min
1552	collect samples for 8260 & bioparameters							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

1526 DTW = 9.68
1533 DTW = 9.77
1541 DTW = 9.87
1548 DTW = 9.83

SIGNATURE: John Pecker

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/5/02

SITE TYPE	Monitor Well
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JOB NUMBER	51870.7
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PROTECTIVE CASING / WELL DIFFERENCE	
---	--

WELL DIAMETER	
------------------	--

WELL	YES	NO	N/A
INTEGRITY: CAP			

CASING	_____	_____	_____
LOCKED	_____	_____	_____
COLLAR	_____	_____	_____

TOTAL VOL. PURGED 1.43 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER

NOTES

0820 DTW 7.23'
0825 DTW 7.25'
0830 DTW 7.25'
0835 DTW 7.25'

SIGNATURE: _____

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/6/02

SITE ID TW-13

SITE TYPE Monitor Well

SITE ACTIVITY START 8:45 END 9:35

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 5.16 FT

WELL DEPTH 15.10 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 5.06 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A

DRAWDOWN 0.70 FT

DRAWDOWN VOLUME 0.11 GAL

PRODUCT THICKNESS FT

CASING LOCKED YES NO N/A

COLLAR YES NO N/A

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 8:50

END PURGING 9:28

TOTAL VOL. PURGED 0.77 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
9:01	0.92	7.08	0.92	27	2.70	0.61	8.86	0	83 mL/min
9:08	1.48	7.06	0.93	31	2.13	0.46	7.59	-8	80 mL/min
9:15	2.05	7.06	0.96	31	1.97	0.36	8.33	-8	72 mL/min
9:22	2.59	7.05	0.94	20	2.15	0.35	9.13	-6	77 mL/min
9:24	collect samples for 8260								
			</						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

9:01 DTW = 5.72
9:08 DTW = 5.87
9:15 DTW = 5.92
9:22 DTW = 5.99

SIGNATURE:

John A. Peeler

Mactec Engineering and Consulting

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments
2002 4th Qtr Sampling Event

DATE 12/4/02

SITE ID TW-17

SITE TYPE Monitor Well

SITE ACTIVITY START 10:45 END 11:55

JOB NUMBER 51870.7

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐ TOP OF WELL RISER
☐ TOP OF PROTECTIVE CASING
☐ OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 7.85 FT

WELL DEPTH 17.45 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 8.10 FT

SCREEN LENGTH FT

PID WELL MOUTH PPM

WELL INTEGRITY: CAP YES NO N/A
CASING X
LOCKED X
COLLAR X

DRAWDOWN 0.25 FT

DRAWDOWN VOLUME 0.04 GAL

PRODUCT THICKNESS FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE 0.08 L/MIN

BEGIN PURGING 10:54

END PURGING 11:44

TOTAL VOL. PURGED 0.98 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments
11:07	0.85	7.13	0.68	19	6.53 4.54	14.56	25	~77 mL/min
11:14	1.37	7.11	0.79	22	6.75 4.31	10.15	14	~75 mL/min
11:21	1.87	7.11	0.77	23	6.46 4.21	10.86	22	~71 mL/min
11:28	2.43	7.14	0.77	19	6.44 4.08	11.17	18	~80 mL/min
11:31	collect samples for 8260 & bioparameters							

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

11:06 DTW 8.02
11:13 DTW 8.00
11:21 DTW 8.01
11:29 DTW 8.03

SIGNATURE

[Signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE: 12/4/02

SITE ID TW-20

SITE TYPE	Monitor Well
-----------	--------------

SITE ACTIVITY START 13:15 END 14:30

JOB NUMBER	51870.7
------------	---------

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT

☐	TOP OF WELL RISER
☐	TOP OF PROTECTIVE CASING
☐	OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	FE
---	----

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

INITIAL DEPTH TO WATER	12.15	FT
---------------------------	-------	----

WELL DEPTH 17.22 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER	12:45	FT
-------------------------	-------	----

SCREEN LENGTH FT

PID WELL	
MOUTH	PPM

WELL INTEGRITY: CAP YES NO N/A
X

DRAWDOWN	
	FT

DRAWDOWN VOLUME GAL

PRODUCT THICKNESS FT

LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

$$((\text{initial} - \text{final}) \times 0.16 \text{ (2-inch)} \text{ or } \times 0.65 \text{ (4-inch)} \text{ or } \times 1.5 \text{ (6-inch)})$$

PURGE RATE L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Horiba. D. Well

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER

TYPE OF TUBING

☐ TEFLON OR TEFLON LINED
☒ HIGH DENSITY POLYETHYLENE
☐ OTHER _____

TYPE OF PUMP MATERIAL

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER

TYPE OF BLADDER MATERIAL (if applicable)

☐ TEFLON

☐ OTHER

PURGE OBSERVATIONS

NOTES

1343 DTW = 12.32
1349 DTW = 12.35
1355 DTW = 12.40
1401 DTW = 12.41

SIGNATURE

APPENDIX E

WELL CONSTRUCTION INFORMATION

Appendix E Well Construction Information

Quarterly Progress Report
Fourth Quarter 2002 and 2-Year Evaluation Progress
Former Taylor Instruments Site
Rochester, New York

Well ID	Date Installed	Well Purpose/Type	Well Location	Boring Depth	Well Depth	Screen Interval		Survey Coordinates			Well Material	Completion		
						Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
BR-01	09/02/97	Monitor	Perimeter	42.2	42.2	NA	NA	750364.06	1150086.89	531.92	Stainless / Open	X		
BR-02	09/02/97	Monitor	Perimeter	44.0	44.0	NA	NA	750541.81	1149964.51	532.39	Stainless / Open	X		
BR-03	09/02/97	Monitor	Perimeter	40.1	40.1	NA	NA	750552.93	1149641.68	536.32	Stainless / Open			X
BR-04	09/03/97	Monitor	South Source	44.2	44.2	NA	NA	750322.96	1149422.13	532.68	Stainless / Open	X		
BR-05	09/03/97	Monitor	North Source	49.9	49.9	NA	NA	750216.62	1149958.67	531.76	Stainless / Open	X		
BR-06	09/03/97	Monitor	Background	42.6	42.6	NA	NA	749939.91	1149145.54	539.10	Stainless / Open	X		
BR-07	09/03/97	Monitor	Upgradient	53.3	53.3	NA	NA	749983.50	1149989.76	534.46	Stainless / Open			X
BR-08	07/28/00	Monitor	South Plume (Deep)	73.0	73.0	NA	NA	750340.94	1149482.41	533.13	Iron / Open	X		
BR-09	07/28/00	Monitor	South Source	47.0	47.0	NA	NA	750400.72	1149438.67	532.72	Iron / Open	X		
BR-10	07/28/00	Monitor	South Source	47.0	47.0	NA	NA	750426.90	1149411.76	532.29	Iron / Open	X		
BR-11	07/28/00	Monitor	South Source	52.0	52.0	NA	NA	750387.82	1149546.25	532.53	Iron / Open	X		
BR-12	07/28/00	Monitor	North Source	42.0	42.0	NA	NA	750195.19	1150010.12	531.90	Iron / Open	X		
BR-13	07/28/00	Monitor	Perimeter	67.5	67.5	NA	NA	750197.49	1150044.27	532.01	Iron / Open	X		
BR-14	07/28/00	Monitor	North Plume (Deep)	75.3	75.3	NA	NA	750260.61	1150052.20	531.67	Iron / Open	X		
BR-15	07/26/00	Monitor	North Source	72.0	72.0	NA	NA	750293.39	1149980.43	531.69	Iron / Open	X		
BR-16	07/26/00	Monitor	North Source	55.0	55.0	NA	NA	750223.79	1150013.71	531.32	Iron / Open	X		
BR-17	07/28/00	Monitor	South Source	52.0	52.0	NA	NA	750333.76	1149478.26	533.16	Iron / Open	X		
EW-N-1	08/15/00	Extraction	North Area	27.0	27.0	5.2	26.0	750198.77	1149956.96	529.28	Stainless / PVC		X	
EW-N-2	08/23/00	Extraction	North Area	27.0	27.0	5.5	26.0	750225.81	1149942.16	528.76	Stainless / PVC		X	
EW-N-3	08/22/00	Extraction	North Area	26.8	26.8	5.2	25.8	750217.16	1149980.06	528.69	Stainless / PVC		X	
EW-N-4	08/23/00	Extraction	North Area	26.0	26.0	7.2	25.0	750259.43	1149928.84	529.32	Stainless / PVC		X	
EW-N-5	08/16/00	Extraction	North Area	27.0	27.0	5.5	26.0	750257.98	1149972.33	528.26	Stainless / PVC		X	
EW-N-6	08/18/00	Extraction	North Area	25.5	25.0	6.1	24.0	750293.49	1149957.98	529.18	Stainless / PVC		X	
EW-S-1S	10/01/98	Extraction	South Area	14.0	13.7	4.3	13.7	750332.80	1149428.08	529.41	Stainless		X	
EW-S-1D	10/01/98	Extraction	South Area	18.3	18.3	4.3	17.9	750327.22	1149428.49	529.41	Stainless		X	
EW-S-2	07/26/00	Extraction	South Area	23.1	22.0	5.5	21.0	750256.26	1149404.38	528.68	Stainless / PVC		X	
EW-S-3	07/28/00	Extraction	South Area	23.5	22.0	5.5	21.0	750301.18	1149370.46	529.55	Stainless / PVC		X	
EW-S-4	07/26/00	Extraction	South Area	23.5	22.0	5.5	21.0	750293.94	1149418.71	532.41	Stainless / PVC		X	
EW-S-5	08/01/00	Extraction	South Area	23.5	22.5	5.8	21.5	750325.14	1149386.52	529.53	Stainless / PVC		X	
EW-S-6	07/31/00	Extraction	South Area	22.9	22.4	5.9	20.9	750341.87	1149362.58	529.27	Stainless / PVC		X	
EW-S-7	08/07/00	Extraction	South Area	23.1	22.5	5.9	21.6	750339.03	1149413.8	529.59	Stainless / PVC		X	
EW-S-8	08/02/00	Extraction	South Area	23.0	22.5	5.8	21.5	750359.86	1149402.69	529.65	Stainless / PVC		X	
EW-S-9	08/03/00	Extraction	South Area	23.0	22.5	6.0	21.5	750355.07	1149440.13	532.99	Stainless / PVC		X	

Appendix E Well Construction Information

Quarterly Progress Report
Fourth Quarter 2002 and 2-Year Evaluation Progress
Former Taylor Instruments Site
Rochester, New York

Well ID	Date Installed	Well Purpose/Type	Well Location	Boring Depth	Well Depth	Screen Interval		Survey Coordinates			Well Material	Completion		
						Top	Bottom	Easting	Northing	Elevation		Flush-mount	Vault	Stick-up
EW-S-10	08/09/00	Extraction	South Area	22.6	22.5	6.0	21.5	750381.30	1149367.65	529.43	Stainless / PVC		X	
EW-S-11	08/08/00	Extraction	South Area	22.6	22.5	5.9	22.0	750377.04	1149418.02	529.50	Stainless / PVC		X	
EW-S-12	08/04/00	Extraction	South Area	22.3	22.3	5.8	21.3	750375.38	1149466.45	529.96	Stainless / PVC		X	
EW-S-13	08/10/00	Extraction	South Area	22.0	22.0	6.0	21.0	750399.16	1149448.68	529.53	Stainless / PVC		X	
EW-S-14	08/11/00	Extraction	South Area	22.0	22.0	5.6	21.0	750406.59	1149410.24	529.37	Stainless / PVC		X	
EW-S-15	08/14/00	Extraction	South Area	22.0	21.8	5.2	20.8	750414.78	1149480.34	529.96	Stainless / PVC		X	
EW-S-16	08/10/00	Extraction	South Area	21.3	21.3	5.2	20.3	750433.72	1149448.95	529.57	Stainless / PVC		X	
BREW-S-1	08/03/00	Extraction	South Area	61.8	61.8	26.6	56.4	750368.27	1149458.11	533.67	Stainless / PVC		X	
BREW-N-1	08/17/00	Extraction	North Area	75.8	75.8	25.8	70.3	750253.53	1150013.88	531.68	Stainless / PVC		X	
OB-04	09/05/97	Monitor	South Source	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.80	PVC	X		
OB-05	09/05/97	Monitor	North Source	18.0	18.0	4.0	18.0	750223.51	1149958.83	531.50	PVC	X		
OB-06	07/19/00	Monitor	South Source	17.0	17.0	6.8	16.8	750421.89	1149461.50	532.60	PVC	X		
OB-07	07/19/00	Monitor	South Plume	20.5	20.5	10.2	20.2	750461.13	1149512.60	533.03	PVC	X		
OB-08	07/28/00	Monitor	North Source	25.5	25.3	15.3	25.1	750279.00	1149957.45	531.64	PVC	X		
OB-09	07/28/00	Monitor	North Plume	23.5	23.3	13.3	23.1	750312.26	1149992.94	531.85	PVC	X		
TW-01	03/12/96	Monitor	Perimeter	22.0	22.0	17.0	22.0	750548.13	1149471.23	533.30	PVC	X		
TW-04	03/15/96	Monitor	Perimeter	17.5	17.3	12.3	17.3	750552.18	1149648.54	536.34	PVC			X
TW-07	03/15/96	Monitor	Perimeter	17.5	17.5	12.5	17.5	750546.69	1149830.01	532.55	PVC	X		
TW-09	03/30/96	Monitor	Perimeter	16.0	16.0	11.0	16.0	750542.22	1149971.84	532.30	PVC	X		
TW-13	03/12/96	Monitor	Upgradient	15.0	15.0	10.0	15.0	750086.24	1150016.03	531.69	PVC	X		
TW-17	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750373.39	1150088.34	531.86	PVC			X
TW-20	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750547.88	1150118.75	532.42	PVC			X
TW-74	04/09/96	Monitor	Mid-Plume	15.0	15.0	7.5	15.0	750407.92	1149841.78	531.96	PVC	X		
W-1	09/16/82	Monitor	Perimeter	14.0	14.0	7.0	13.9	750490.21	1149147.95	534.10	PVC			X
W-2	09/15/82	Monitor	Background	21.0	18.0	13.0	18.0	749940.43	1149136.77	539.10	PVC			X
W-3	09/16/82	Monitor	Upgradient	24.0	17.0	16.0	21.0	750168.37	1149794.82	533.00	PVC	X		
W-4	09/22/82	Monitor	Upgradient	29.0	26.0	21.0	26.0	749977.63	1149996.42	533.12	PVC			X
W-5	09/15/82	Monitor	Perimeter	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.52	PVC	X		
W-6	09/15/82	Monitor	Upgradient	16.5	15.0	13.0	15.0	750288.78	1149332.79	532.66	PVC	X		

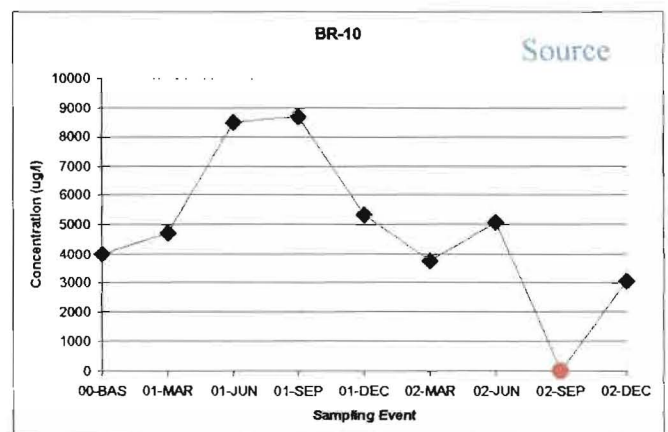
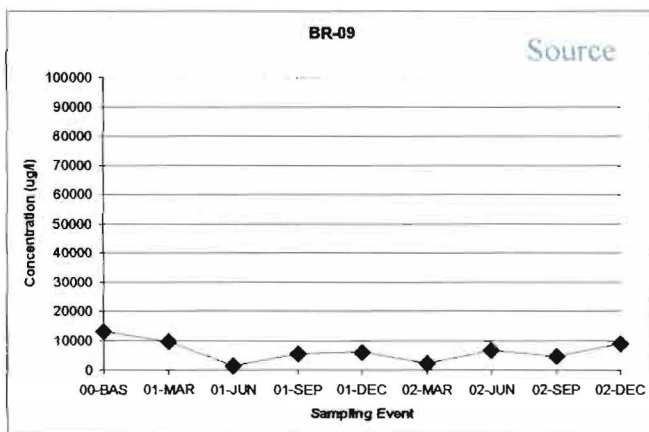
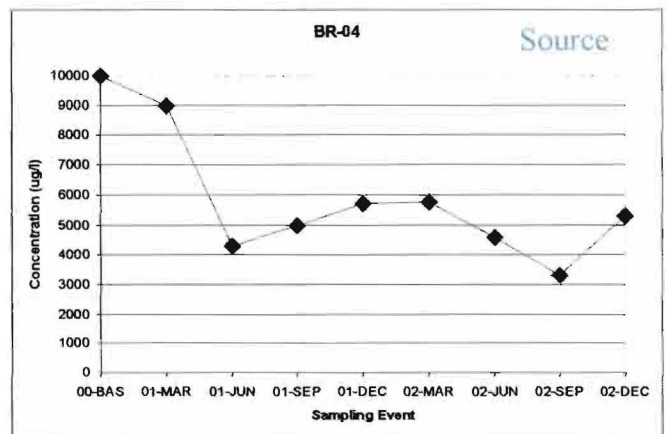
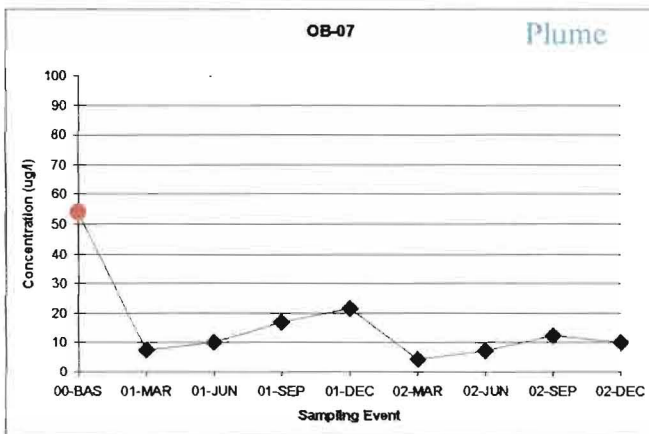
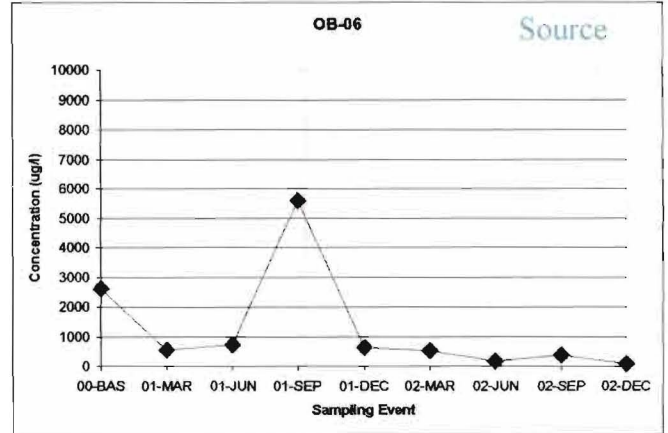
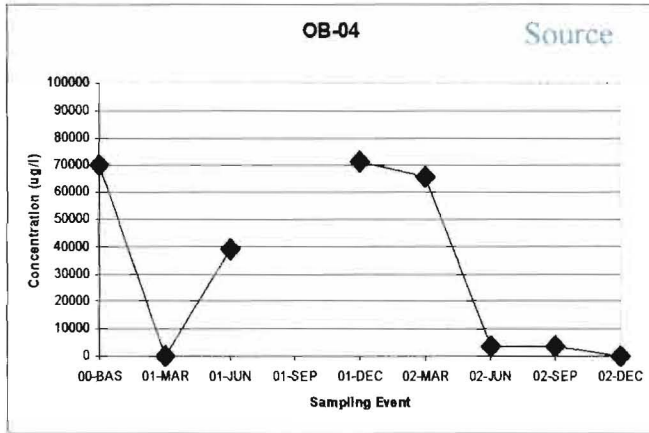
APPENDIX F

MONITOR WELL CONCENTRATION TREND GRAPHS

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

South TCE Area



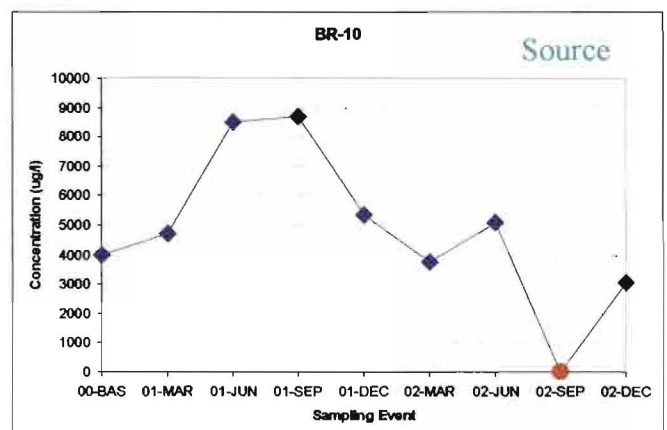
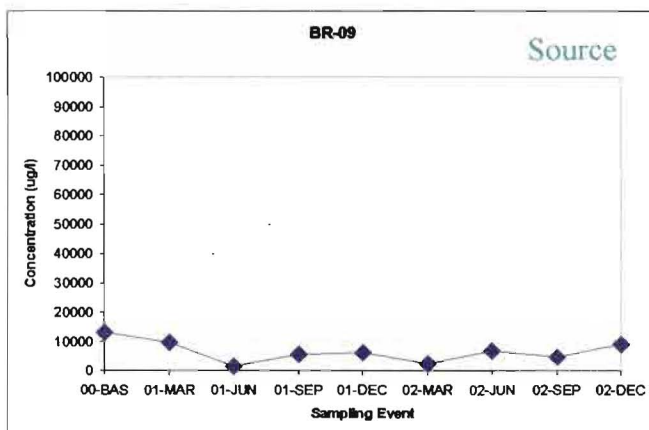
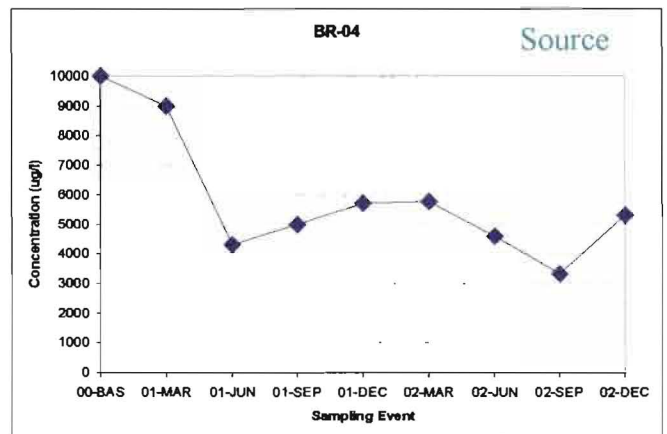
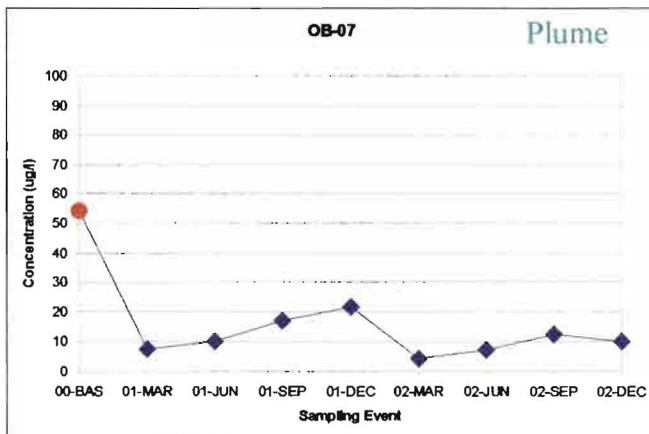
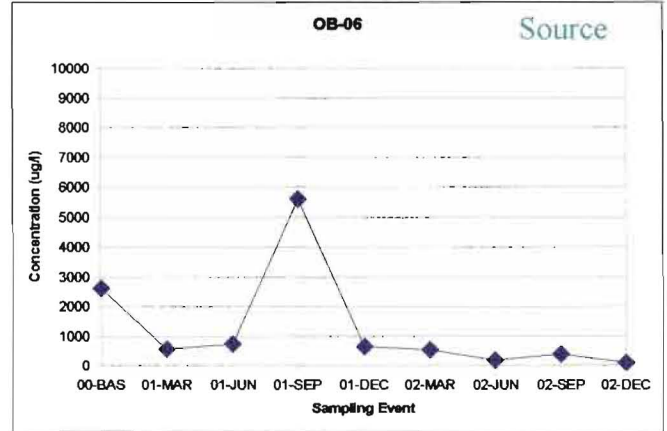
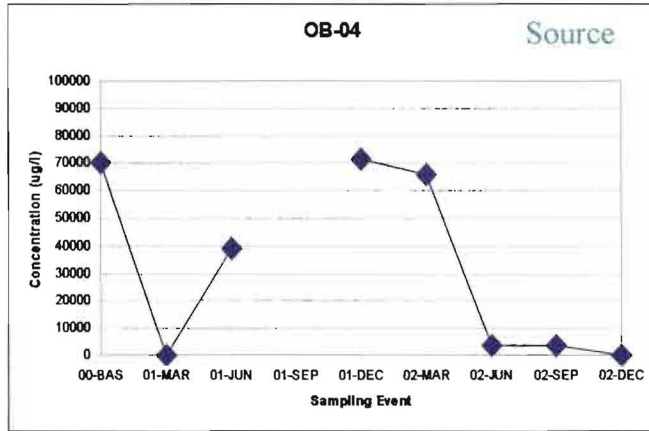
◆ = actual value
● = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

South TCE Area

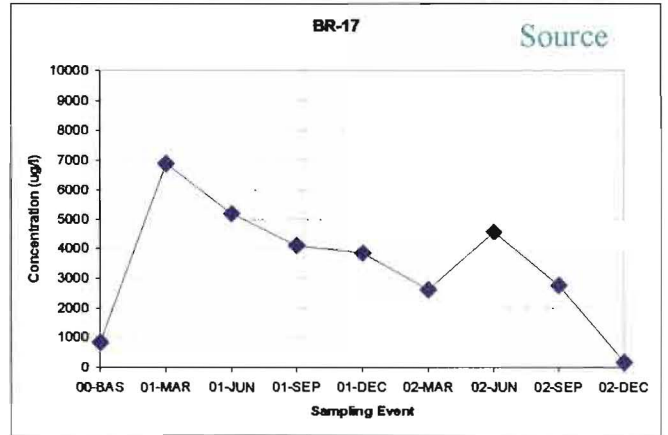
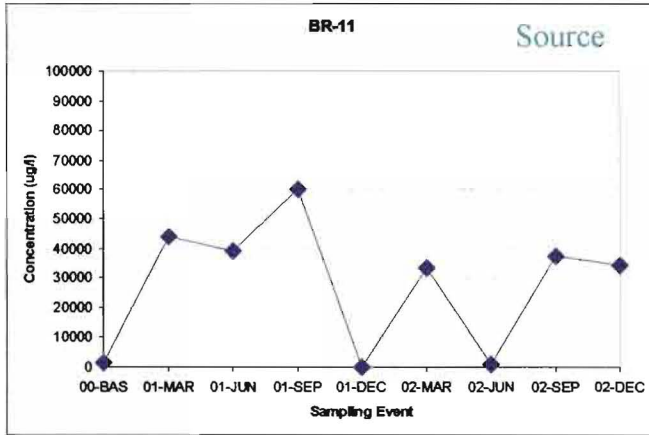


- ◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

South TCE Area



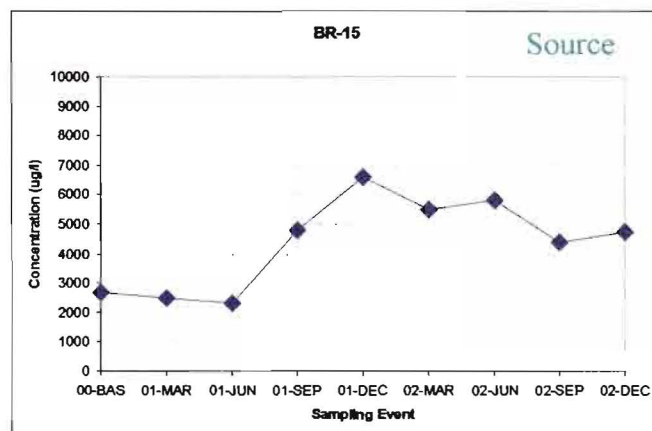
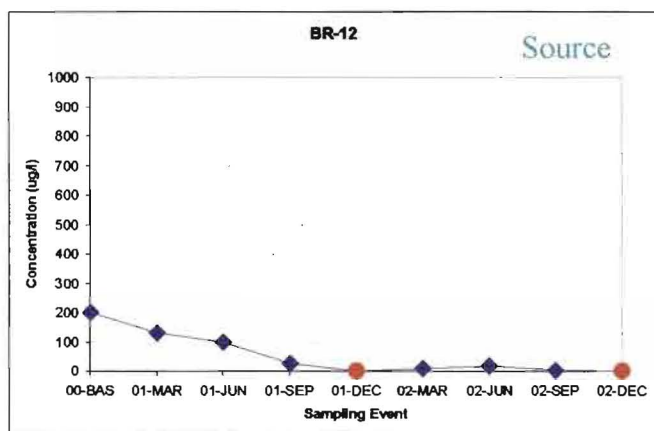
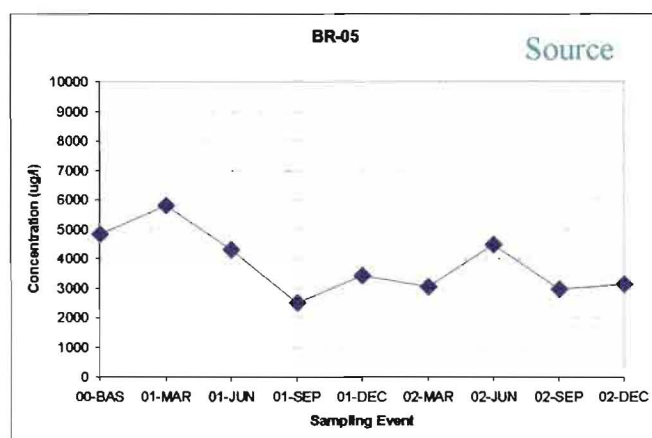
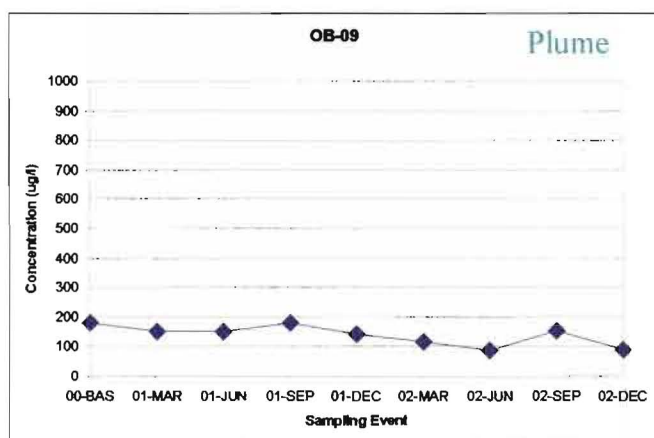
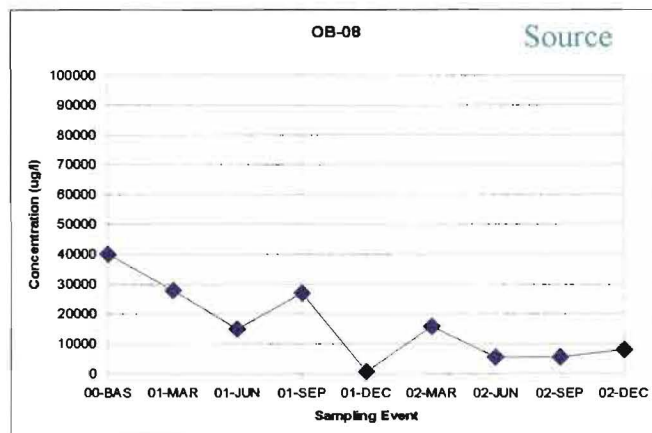
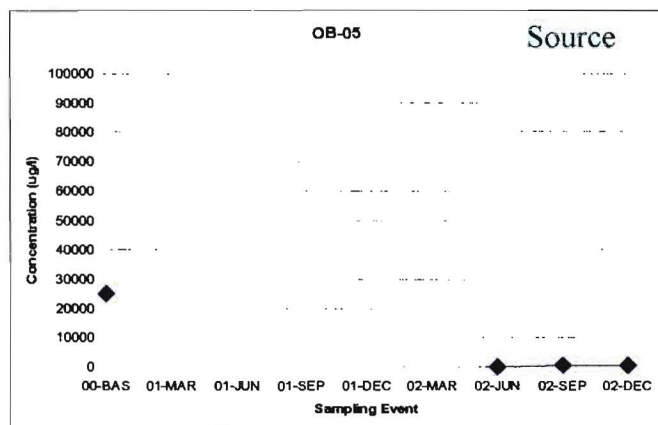
- ◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

North TCE Area



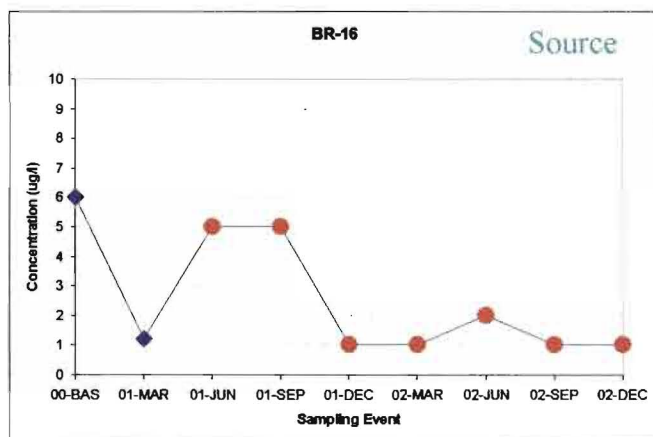
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Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

North TCE Area



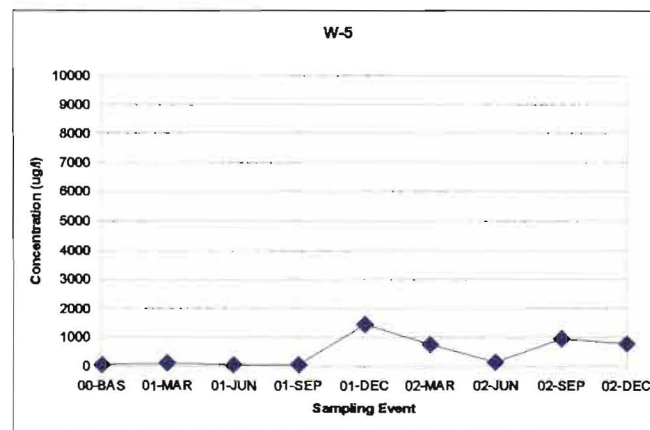
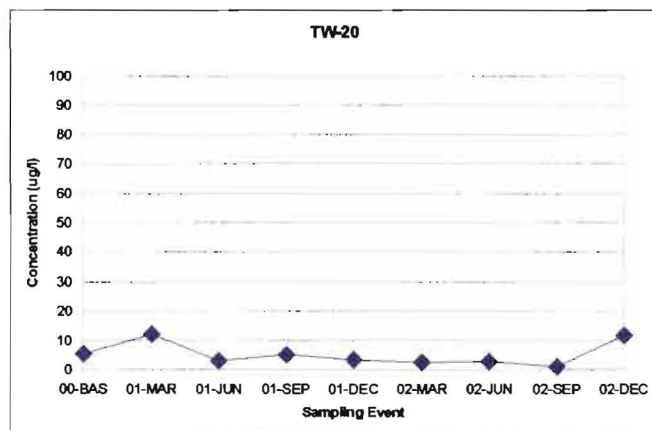
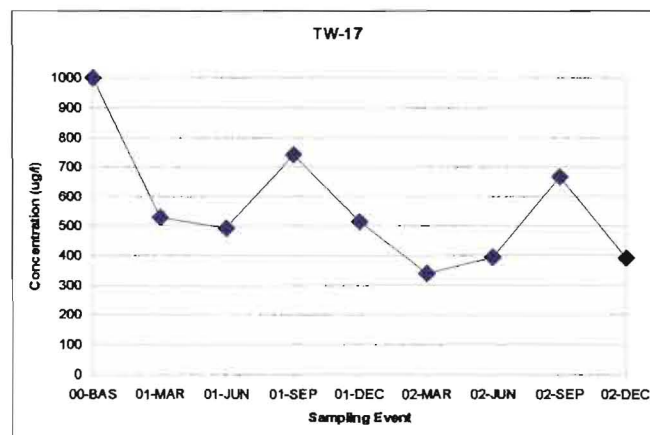
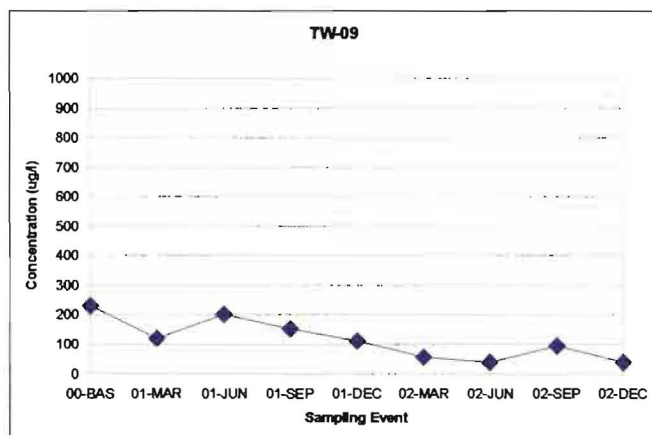
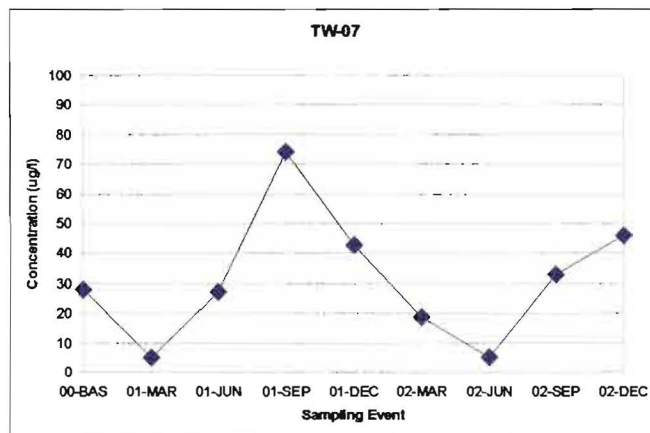
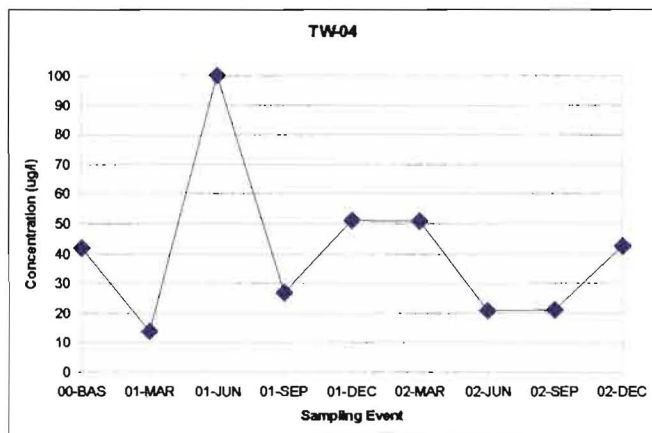
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Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

Perimeter Downgradient Area



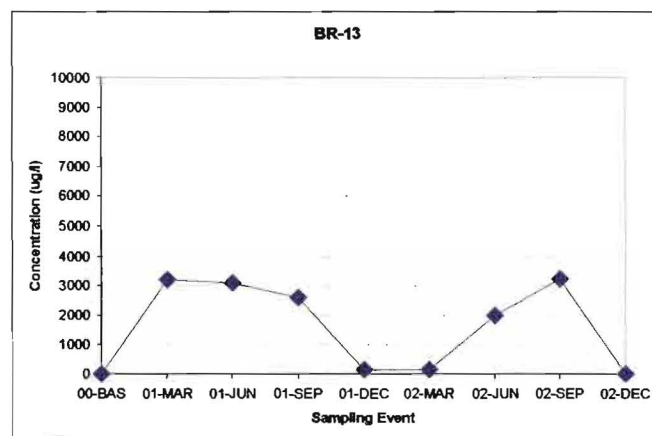
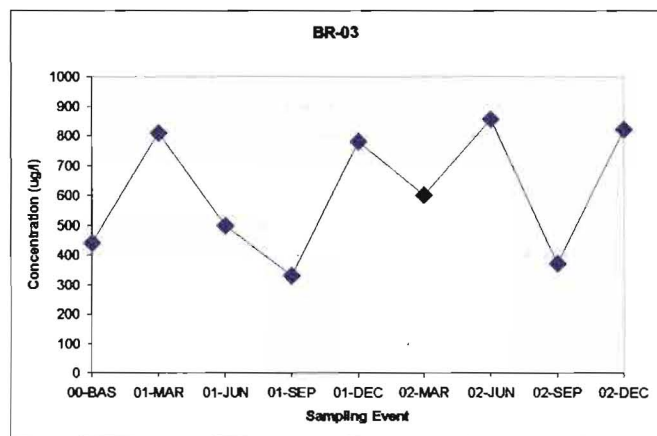
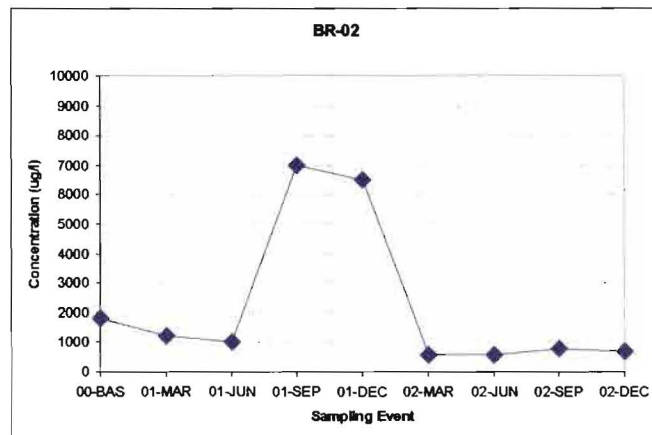
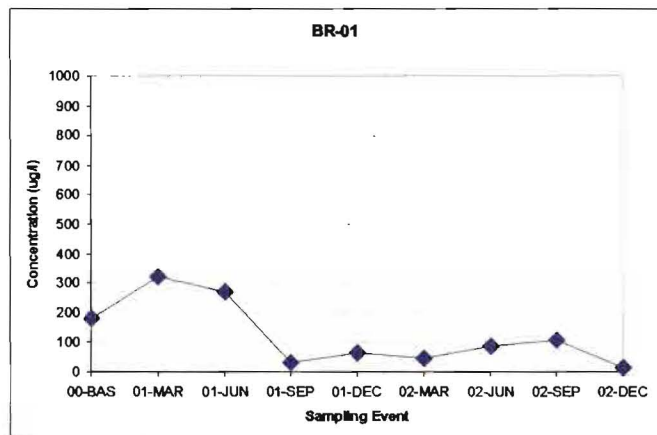
◆ = actual value
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Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

Perimeter Downgradient Area



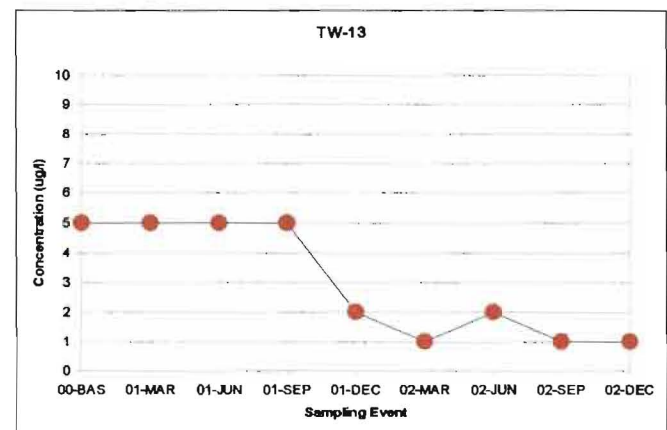
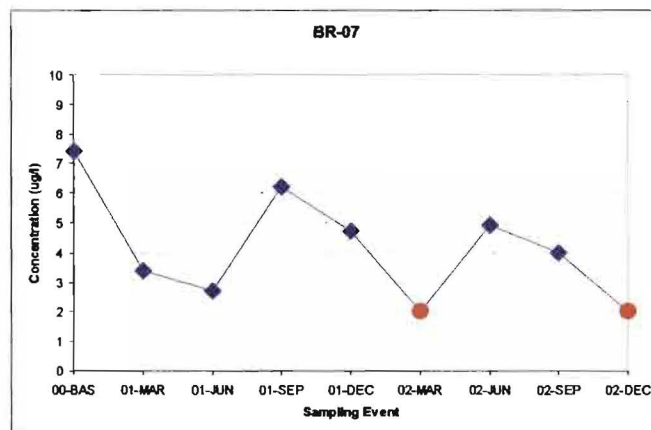
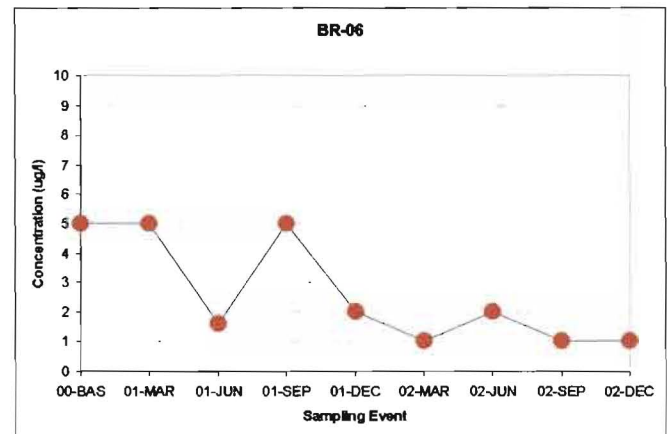
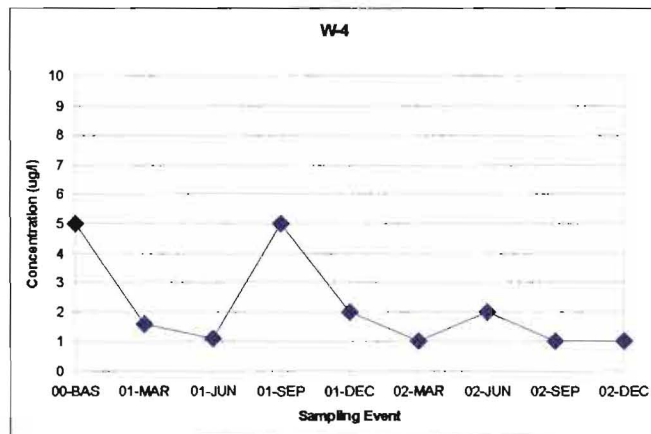
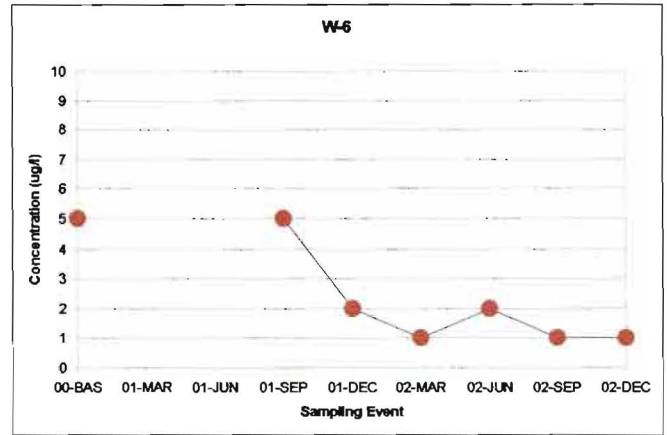
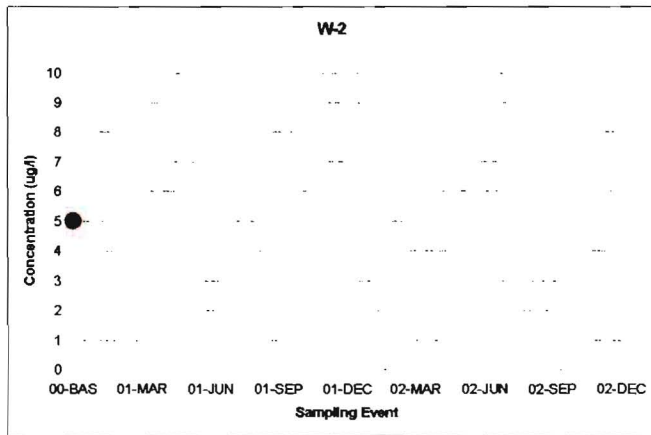
◆ = actual value
 ● = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs

(TCE Concentration Trends)

Upgradient Area

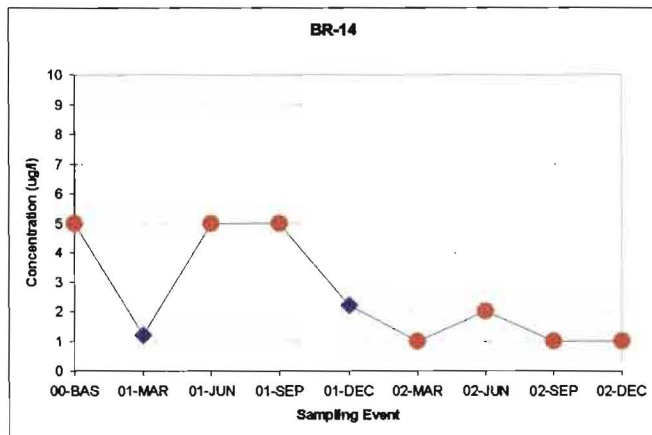
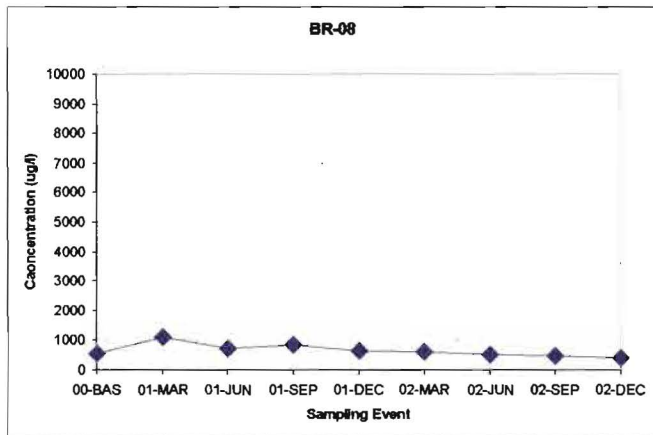


- ◆ = actual value
- = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Deep Bedrock Area



- ◆ = actual value
- = value below graphed detection limit