

QUARTERLY PROGRESS REPORT FOURTH QUARTER 2001

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

PREPARED FOR:

**COMBUSTION ENGINEERING
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Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

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LIST OF ACRONYMS

CO ₂	carbon dioxide
cis-1,2-DCE	cis-1,2-dichloroethylene
1,1-DCE	1,1-dichloroethylene
DCE	dichloroethylene
DO	dissolved oxygen
DPVE	dual-phase vacuum extraction
EPA	Environmental Protection Agency (United States)
Freon 113	112-Trichl-122-tri-F-eth
J	estimated value
µg/L	micrograms per liter
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
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	recovery
RPD	relative percent difference
SQL	sample quantitation limit
System	the dual-phase vacuum extraction and groundwater remedial treatment system
112-Trichl-122-tri-F-eth	Freon 113
TCE	trichloroethylene
trans-1,2-DCE	trans-1,2-dichloroethylene
U	non-detect
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the activities and results for the fourth quarterly sampling event, which was conducted in December 2001, following implementation of the dual-phase vacuum extraction and groundwater remedial treatment system (System). A summary of the 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. An operational summary of the System for the fourth quarter of operation is also presented. This monitoring program has been implemented to document remedial progress in reducing contaminants of concern.

2.0 SCOPE OF WORK

2.1 DECEMBER 2001 QUARTERLY SAMPLING EVENT

Harding ESE personnel performed the December sampling event to provide an inclusive set of groundwater analytical data for the fourth quarterly period following start-up of the groundwater conveyance and treatment system. Forty-four samples were collected and submitted to Test America, Incorporated (Table 2-1). Forty-three samples were submitted for volatile organic analyses by U.S. Environmental Protection Agency (EPA) Method 8260B. Of the 44 samples collected, 8 were also submitted for natural biodegradation parameters which include nitrate by Method 353.2; sulfate by Method 375.4; chloride by Method 9251; total organic carbon by Method 415.1; sulfide by Method 9030B/9034; ferrous iron by Method 3500B; 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-eight of the samples were environmental samples collected from monitor wells located on the Site. Twelve of the forty-four 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 sample chain-of-custody forms for all samples are located in Appendix 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)

Harding ESE 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 Harding ESE to determine the status of the System and quickly contact local O&M personnel, if necessary, 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 2001 Sampling Event

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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
QATB01	12/11/01	X		Trip Blank
QAFB01	12/11/01	X		Field Blank
QARB01	12/11/01	X		Rinsate Blank
W-2	12/11/01		X ³	Environmental Sample
BR-06	12/12/01	X		Environmental Sample
BR-06 (MS)	12/12/01	X		Matrix Spike
BR-06 (MSD)	12/12/01	X		Matrix Spike Duplicate
BR-07	12/12/01	X		Environmental Sample
BR-07 (DUP)	12/12/01	X		Duplicate
W-6	12/12/01	X		Environmental Sample
TW-13	12/12/01	X		Environmental Sample
W-4	12/12/01	X		Environmental Sample
OB-06	12/13/01	X		Environmental Sample
BR-08	12/13/01	X		Environmental Sample
BR-17	12/13/01	X		Environmental Sample
TW-04	12/13/01	X	X	Environmental Sample
BR-03	12/13/01	X		Environmental Sample
BR-14	12/14/01	X		Environmental Sample
BR-01	12/14/01	X		Environmental Sample
TW-17	12/14/01	X	X	Environmental Sample
TW-20	12/14/01	X	X	Environmental Sample
TW-07	12/15/01	X	X	Environmental Sample
TW-09	12/15/01	X	X	Environmental Sample
BR-02	12/15/01	X		Environmental Sample
OB-09	12/15/01	X	X	Environmental Sample
QATB02	12/15/01	X		Trip Blank
QAFB02	12/15/01	X		Field Blank

See notes at end of table.

**Table 2-1 (Continued)
Samples and Analysis,
December 2001 Sampling Event**

Quarterly Progress Report
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Sample ID	Sample Date	VOCs ¹ Analysis	Natural Biodegradation Parameter Analysis ²	Description
QARB02	12/15/01	X		Rinsate Blank
BR-16	12/16/01	X		Environmental Sample
BR-12	12/16/01	X		Environmental Sample
BR-13	12/16/01	X		Environmental Sample
BR-15	12/16/01	X		Environmental Sample
BR-10	12/16/01	X		Environmental Sample
OB-07	12/17/01	X	X	Environmental Sample
OB-07 (MS)	12/17/01	X		Matrix Spike
OB-07 (MSD)	12/17/01	X		Matrix Spike Duplicate
W-5	12/17/01	X	X	Environmental Sample
W-5 (DUP)	12/17/01	X		Duplicate
BR-04	12/17/01	X		Environmental Sample
OB-04	12/17/01	X		Environmental Sample
BR-05	12/18/01	X		Environmental Sample
BR-09	12/18/01	X		Environmental Sample
OB-08	12/18/01	X		Environmental Sample
BR-11	12/18/01	X		Environmental Sample

¹ VOCs analyzed by Method 8260B.

² Natural biodegradation parameters include nitrate by Method 353.2, sulfate by Method 375.4, chloride by Method 9251, total organic carbon by Method 415.1, sulfide by Method 9030B/9034, ferrous iron by Method 3500B, 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 9251, and carbon dioxide by Method SM4500CO2C.

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

- 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

The wells sampled during the fourth quarterly (December 2001) event are divided into four categories. These categories are (1) the North and South Trichloroethylene (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 sample results for the December 2001 sampling event are summarized in Tables 3-1, 3-2, and 3-3. These tables present only positive (i.e., 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. 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, and December 2001 sampling events. Natural biodegradation results for the December 2001 event are summarized in Table 3-4 (see Section 3.6). Comprehensive results can be found in the laboratory reports located in Appendix B.

3.1 NORTH AND SOUTH TCE SOURCE AREAS

Overburden Monitor Wells

Monitor wells OB-04 and OB-06 are both located within the South TCE Source Area while OB-07 is within the plume. Results in OB-04 were higher than June 2001 results, with TCE increasing from 39,000 micrograms per liter ($\mu\text{g/L}$) to 71,500 $\mu\text{g/L}$, cis-1,2-dichloroethylene (cis-1,2-DCE) rising to 56,000 $\mu\text{g/L}$ from 21,000 $\mu\text{g/L}$. Daughter products trans-1,2-dichloroethylene (trans-1,2-DCE), 1,1-dichloroethylene (1,1-DCE), and vinyl chloride were detected at 170 $\mu\text{g/L}$, 108 $\mu\text{g/L}$, and 10.2 $\mu\text{g/L}$, respectively, where they were not detected in June 2001. OB-04 was dry, and could not be sampled in the immediately prior event, September 2001. OB-06 displayed a decrease in TCE concentration from past events, with TCE being detected at 637 $\mu\text{g/L}$, down from 5,600 $\mu\text{g/L}$. Also, cis-1,2-DCE was detected at 13.7 $\mu\text{g/L}$. OB-07 exhibited only 21.8 $\mu\text{g/L}$ of TCE, which is consistent with past detections (17 $\mu\text{g/L}$ in September and 10 J in June), as well as 7 $\mu\text{g/L}$ of cis-1,2-DCE. Concentrations at OB-07 remained consistent with prior sampling events. TCE was detected at 21.8 $\mu\text{g/L}$, compared to a detection of 17 $\mu\text{g/L}$ in September. Also, cis-1,2-DCE was detected at 7 $\mu\text{g/L}$.

**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 * = unique sampling event 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						

Table 3-2
Summary of Overburden VOC Results for the Baseline,
March 2001, June 2001, September 2001, and December 2001 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	9/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-04	12/17/01	71,500	56,000	170	108	10.2
OB-05	11/19/00	25,000	4,600	--	--	350
OB-05	03/25/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	06/14/01	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-05	9/01	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-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	9/13/01	5,600	240	9.0 J	--	--
OB-06	12/13/01	637	13.7	--	--	--
OB-07	11/16/00	--	--	--	--	--
OB-07	03/28/01	7.5	--	--	--	--
OB-07	06/17/01	10 J	--	--	--	--
OB-07	9/17/01	17	1.8 J	--	--	--
OB-07	12/17/01	21.8	7	--	--	--
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	9/18/01	27,000	560 J	--	--	--
OB-08	12/18/01	500	9.3	--	--	--
OB-09	11/16/00	180	14	--	--	--
OB-09	03/26/01	150	16	--	--	--
OB-09	06/17/01	150	17	--	--	--
OB-09	9/15/01	180	23	3.5 J	--	--
OB-09	12/15/01	141	20.5	2.3	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the Baseline,
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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-01	10/24/00	--	--	--	--	--
TW-01*	03/01	NS	NS	NS	NS	NS
TW-01*	06/01	NS	NS	NS	NS	NS
TW-01*	9/01	NS	NS	NS	NS	NS
TW-01*	12/01	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	9/14/01	27	38	--	--	--
TW-04	12/13/01	51.1	19.4	--	--	--
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	9/15/01	74	11	18	--	--
TW-07	12/15/01	42.6	7.7	21.4	--	--
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	9/16/01	150	9.6	--	--	--
TW-09	12/15/01	110	4	--	--	--
TW-13	11/16/00	--	--	--	--	--
TW-13	03/20/01	--	--	--	--	--
TW-13	06/14/01	--	--	--	--	--
TW-13	9/12/01	--	--	--	--	--
TW-13	12/12/01	--	--	--	--	--
TW-17	11/17/00	1,000	7.9 J	--	--	--
TW-17	03/23/01	530	--	--	--	--
TW-17	06/16/01	490	--	--	--	--
TW-17	9/14/01	740	--	--	--	--
TW-17	12/14/01	515	--	--	--	--

See notes at end of table.

Table 3-2 (Continued)
Summary of Overburden VOC Results for the Baseline,
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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	9/14/01	--	--	--	--	--
TW-20	12/14/01	3.1	--	--	--	--
W-2	10/21/00	--	--	--	--	--
W-2*	03/29/01	NS	NS	NS	NS	NS
W-2*	06/15/01	NS	NS	NS	NS	NS
W-2*	9/11/01	NS	NS	NS	NS	NS
W-2*	12/01	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	9/13/01	--	--	--	--	--
W-4	12/12/01	--	--	--	--	--
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	9/17/01	64	9.1	6.5	--	--
W-5 (DUP)	9/17/01	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-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	--	--	--	--	--

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,
March 2001, June 2001, September 2001, and December 2001 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	9/14/01	31	170	16	--	--
BR-01	12/14/01	63.8	77.5	2	--	--
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	9/15/01	7,000	1,500	63	31 J	--
BR-02	12/15/01	6,500	1,830	59.8	30.3	19.6
BR-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	9/14/01	330	7.8 J	--	--	--
BR-03	12/13/01	780	7.6	--	2.2	--
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	9/17/01	5,000	420	100 J	--	--
BR-04	12/17/01	5,700	430	79.9	9	27.4
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	9/18/01	2,500	1,800	150	38 J	420
BR-05	12/18/01	3,420	2,480	153.5	41.5	290.5
BR-06	11/17/00	--	--	--	--	--
BR-06	03/22/01	--	--	--	--	--
BR-06	06/15/01	1.6 J	--	--	--	--
BR-06	9/12/01	--	--	--	--	--
BR-06	12/12/01	--	--	--	--	--

See notes at end of table.

Table 3-3 (Continued)
Summary of Bedrock VOC Results for the Baseline,
March 2001, June 2001, September 2001, and December 2001 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-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	9/12/01	6.2	32	16	--	180
BR-07 (DUP)	9/12/01	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-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)	9/13/01	830	250	--	--	--
BR-08 (Deep)	12/13/01	649	246	3	--	3.1
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	9/18/01	5,500	68 J	--	--	--
BR-09	12/18/01	6,000	60	2.9	--	--
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	9/17/01	8,700	1,700	160 J	--	--
BR-10	12/16/01	5,350	1,200	82.8	3.4	5.6
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	9/18/01	60,000	--	--	--	--
BR-11	12/18/01	140	339	108	2	35.4

See notes at end of table.

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

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Rochester, New York

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	9/15/01	27	37	2.1 J	--	--
BR-12	12/16/01	--	3	--	--	--
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	9/16/01	2,600	160	--	--	--
BR-13	12/16/01	156	14.6	--	--	--
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)	9/13/01	--	--	--	--	--
BR-14 (Deep)	12/14/01	2.2	--	--	--	--
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	9/16/01	4,800	110 J	--	--	--
BR-15	12/16/01	6,590	189	28.2	2	1.1
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	9/15/01	--	--	--	--	--
BR-16	12/16/01	--	--	--	--	--
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	9/13/01	4,100	220	60 J	--	57 J
BR-17	12/13/01	3,840	248	44	4.7	33.4

See notes at end of table.

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

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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

Monitor wells OB-05 and OB-08 are both located within the North TCE Source Area while OB-09 is within the plume. OB-05 was dry during the December sampling event and, therefore, was not sampled. TCE concentrations in OB-08 dropped significantly from previous events with detections of 500 µg/L in December, 27,000 µg/L in September, and 15,000 µg/L in June. Also, cis-1,2-DCE was detected at a concentration of 9.3 µg/L, down from 560 µg/L in September 2001. OB-09 remained consistent with past concentrations of TCE, with levels at 141 µg/L (concentrations of 180 µg/L in September and 150 µg/L in both March and June). OB-09 also displayed concentrations of cis-1,2-DCE at 20.5 µg/L and trans-1,2-DCE at 2.3 µg/L.

In addition to these detections, there were several other compounds detected. OB-04 displayed detections of benzene (5.4 µg/L), 1,1-dichloroethane (15.5 µg/L), tetrachloroethene (19.9 µg/L), and toluene (2.1 µg/L). OB-07 had a detection of 112-Trichl-122-tri-F-eth (Freon 113) at 11 µg/L. OB-09 detections were dichlorodifluoromethane (2.6 µg/L) and Freon 113 (8 µg/L). Since none of these compounds were determined to be a contaminant of concern for this site and have not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

Bedrock

Bedrock monitor wells BR-04, BR-09, BR-10, BR-11, and BR-17 are located within the South TCE Source Area. The TCE concentration in BR-04 was 5,700 µg/L, and the breakdown products cis-1,2-DCE and trans-1,2-DCE were 430 and 79.9 µg/L, respectively. BR-09 exhibited TCE and daughter product concentrations at similar levels to BR-04. TCE was detected at 6,000 µg/L, cis-1,2-DCE was detected at 60 µg/L, and trans-1,2-DCE was detected at 2.9 µg/L. TCE concentrations dropped (8,700 µg/L in September 2001 and 5,350 µg/L in December 2001) in well BR-10. Daughter products were also detected in BR-10 consisting of cis-1,2-DCE at 1,200 µg/L, trans-1,2-DCE at 82.8 µg/L, 1,1-DCE at 3.4 µg/L, and vinyl chloride at 5.6 µg/L. BR-11 TCE concentrations were detected at 140 µg/L, while daughter products cis-1,2-DCE (339 µg/L), trans-1,2-DCE (108 µg/L), 1,1-DCE (2 µg/L), and vinyl chloride (35.4 µg/L) were also detected. In well BR-17, TCE concentrations continued to drop (from 5,200 in June to 4,100 µg/L in September, and to 3,840 µg/L in December). Daughter products (cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) were also detected here at 248, 44, 4.7, and 33.4 µg/L, respectively.

BR-05, BR-12, BR-15, and BR-16 are located in the North TCE Source Area. BR-05 recorded TCE levels at 3,420 µg/L, cis-1,2-DCE levels at 2,480 µg/L, trans-1,2-DCE levels at 153.5 µg/L, 1,1-DCE levels at 41.5 µg/L, and Vinyl Chloride at 290.5 µg/L. BR-12 showed a decrease in TCE concentration,

going from 27 µg/L to non-detect levels. Also, cis-1,2-DCE levels dropped from 37 µg/L to 3 µg/L, and trans-1,2-DCE dropped from 2.1 J µg/L to non-detect levels. BR-15 showed an increase in TCE concentrations from the September 2001 (4,800 µg/L) event to the December 2001 (6,590 µg/L) event. Also, daughter products, which had been previously below detection limits with the exception of cis-1,2-DCE, were recorded as cis-1,2-DCE at 189 µg/L, trans-1,2-DCE at 28.2 µg/L, 1,1-DCE at 2 µg/L, and vinyl chloride at 1.1 µg/L. BR-16 remained at non-detect levels.

In addition to these detections, there were several other compounds detected. BR-04 displayed a detection of tetrachloroethene (1.2 µg/L). BR-05 had a detection of benzene at 12.5 µg/L. BR-12 had a detection of acetone at 483 µg/L. BR-15 displayed a detection of Freon 113 at 8 µg/L. Since none of these compounds were determined to be a contaminant of concern for this site and have not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

3.2 UPGRADIENT MONITOR WELLS

Overburden Monitor Wells

W-2 and W-6 are southwest of the source areas and are considered to be upgradient. W-2 is not sampled as part of the quarterly sampling program, but displayed no VOC detections during the Baseline event. W-6 VOC results were all non-detections in December 2001.

In addition to this detection, there was one other compound detected. W-6 displayed a detection of acetone (70.2 µg/L). Since acetone was not determined to be a contaminant of concern for this site and has not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

Bedrock Monitor Wells

BR-06 and BR-07 are also upgradient wells, located southwest and west of the source areas. BR-06 displayed no detectable TCE or daughter product concentrations for the December 2001 sampling event. The BR-07 TCE concentration was 4.7 µg/L. Daughter product concentrations in BR-07 remained constant at 28.5 µg/L (cis-1,2-DCE) and 10.2 µg/L (trans-1,2-DCE). The samples from BR-06 and BR-07 also displayed an acetone detections of 1.8 J and 3.9 J µg/L, respectively. Acetone has no listed maximum contaminant level (MCL) and is a known laboratory artifact. Benzene and toluene were also

detected at low levels in BR-07. Since none of these detections were determined as contaminants of concern for this site and have not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

In addition to this detection, there was one other compound detected. BR-07 displayed a detection of benzene (6.2 µg/L). Since benzene was not determined to be a contaminant of concern for this site and has not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

3.3 PERIMETER DOWNGRAIDENT MONITOR WELLS

Overburden Monitor Wells

Downgradient well TW-13 showed no VOC detections. TW-04 displayed detections of TCE and breakdown product cis-1,2-DCE at 51.1 µg/L and 19.4 µg/L, respectively. TCE in TW-20 was detected at 3.1 µg/L, while daughter product concentrations remained at non-detect levels. Concentrations of TCE in TW-17 dropped to 515 µg/L from 740 µg/L, while daughter products remained at non-detect levels. Measured concentrations in TW-07 were 42.6 µg/L of TCE, 7.7 µg/L of cis-1,2-DCE, and 21.4 µg/L of trans-1,2-DCE. In TW-09, TCE concentrations fell from 150 to 110 µg/L, as well as cis-1,2-DCE dropping from 9.6 µg/L to 4 µg/L. TCE concentrations W-5 were 1,435 µg/L, while cis-1,2-DCE and trans-1,2-DCE concentrations were 39.5 and 9 µg/L, respectively.

In addition to this detection, there was one other compound detected. TW-07 displayed a detection of Freon 113 (5 µg/L). Since Trichl-122-tri-F-eth was not determined to be a contaminant of concern for this site and has not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

Bedrock Monitor Wells

The perimeter downgradient bedrock monitor wells are BR-01, BR-02, BR-03, and BR-13. Concentrations of TCE in BR-01 were 63.8 µg/L, while daughter products cis-1,2-DCE and trans-1,2-DCE were 77.5 µg/L and 2 µg/L, respectively. Concentrations in BR-02 remained fairly consistent, with TCE levels going from 7,000 µg/L during September sampling activities to 6,500 µg/L in the December sampling event, while daughter products displayed a similar trend (cis-1,2-DCE at 1,500 µg/L in September to 1,830 µg/L in December; trans-1,2-DCE at 63 µg/L in September to 59.8 µg/L in

December; 1,1-DCE at 31 J $\mu\text{g/L}$ in September to 30.3 $\mu\text{g/L}$ in December; and vinyl chloride going from non-detect to 19.6 $\mu\text{g/L}$ in December). BR-03 levels were 780 $\mu\text{g/L}$ of TCE, 7.6 $\mu\text{g/L}$ of cis-1,2-DCE, and 2.2 $\mu\text{g/L}$ of 1,1-DCE. Concentrations in BR-13 dropped significantly, with TCE going from 2,600 $\mu\text{g/L}$ in September to 156 $\mu\text{g/L}$ in December, and cis-1,2-DCE going from 160 $\mu\text{g/L}$ in September to 14.6 $\mu\text{g/L}$ in December.

3.4 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. BR-08 showed decreases in concentrations of TCE-related products from the September event with TCE decreasing from 830 to 649 $\mu\text{g/L}$ and cis-1,2-DCE concentrations lowering from 250 to 246 $\mu\text{g/L}$. Daughter products trans-1,2-DCE and vinyl chloride did rise from non-detection levels to 3 and 3.1 $\mu\text{g/L}$, respectively, however. BR-14 had one detection of TCE at 2.2 $\mu\text{g/L}$.

In addition to these detections, there were several other compounds detected. BR-08 displayed detections of acetone (942 $\mu\text{g/L}$), benzene (2.7 $\mu\text{g/L}$), toluene (8.4 $\mu\text{g/L}$), and total xylenes (7 $\mu\text{g/L}$). BR-14 had detections of acetone (202 $\mu\text{g/L}$) and toluene (5 $\mu\text{g/L}$). Since none of these compounds were determined to be a contaminant of concern for this site and have not been detected historically in on-site monitor wells, this contamination is not considered representative of site groundwater conditions.

3.5 POTENTIOMETRIC SURFACE

A potentiometric surface map was 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 2001 map was based upon water level information collected immediately prior to sampling activities on the subject site. Overburden potentiometric surface mapping for the December 2001 event agrees with past mapping, which indicates that groundwater flow is being directly affected by pumping conditions.

Attempts were 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 a supposition that bedrock flow is generally towards the north. Bedrock water level elevations are presented in Figure 5 in Appendix A.

3.6 NATURAL BIODEGRADATION

During the December 2001 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 3-4 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 3-4 shows that TCE daughter products were detected in six 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. Daughter products were not detected in TW-17 and TW-20. Values for the following parameters from TW-17 indicated conditions conducive to natural biodegradation: nitrate, oxidation reduction potential (ORP), pH, temperature, and carbon dioxide (CO₂). TW-20, having five parameter readings favorable for natural biodegradation, is at the northeast corner of the property. It is the furthest downgradient monitor well, and the December 2001 results show TCE concentrations of only 3.1 µg/L. Concentrations of daughter products may be present in the TW-20 vicinity at concentrations less than the sample quantitation limits (SQLs) or daughter products may have completely degraded to non-toxic end products, such as CO₂, water, and chloride.

Due to a laboratory error, samples analyzed for ferrous iron and nitrate were analyzed outside of holding time. The results for this parameter would not vary significantly if they had been analyzed within holding time.

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

Table 3-4
Summary of Natural Biodegradation Results,
December 2001 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	3.11	1.05	5.41	2.83	0.97	1.02	0.84	0.82	5.41
Nitrate (mg/L)	<1	1.77	29.2	1.28	0.77	<0.1	<0.1	6.52	0.37	NA
Iron II (mg/L)	>1	1.55	0.156	0.157	0.33	<0.185	0.998	<0.1	0.217	NA
Sulfate (mg/L)	<20	285	379	123	81	81	84.5	253	358	NA
Sulfide (mg/L)	>1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	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	-96	-8	18	-23	-31	-123	-134	-33	183
pH	5<pH<9	7.09	6.72	7.08	7.08	7.00	7.02	7.60	7.15	7.50
TOC (mg/L)	>20	2.04	3.57	<1	2.97	1.9	2.61	6.42	2.02	NA
Temperature (°C)	>20	13.95	10.86	11.09	11.41	8.76	12.37	12.26	11.87	11.22
CO ₂ (mg/L)	Note 1	<3	15	24	30	32	42	<3	37	<3
Alkalinity (mg/L)	Note 1	219	264	158	309	327	345	71	233	216
Chloride (mg/L)	Note 1	14.4	29.2	2.69	15.8	14.4	10.9	34.8	28	21.6
BTEX (mg/L)	>0.1	<0.008	<0.008	<0.008	<0.008	<0.008	<0.004	<0.004	<0.008	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	Yes	No	No	Yes	Yes	Yes	NA

See notes at end of table.

Table 3-4 (Continued)
Summary of Natural Biodegradation Results,
December 2001 Sampling Event¹

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Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

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

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

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.

Notes: Shading indicates parameters supportive of natural biodegradation.

BTEX= benzene, toluene, ethylbenzene, and xylene

°C = degrees Celsius

CO₂ = carbon dioxide

DO = dissolved oxygen

EPA = Environmental Protection Agency (United States)

mg/L = milligrams per liter

mV = millivolt

NA = not applicable

ORP = oxygen reduction potential

TOC = total organic compound

Table 3-5
System Operational Summary,
January 2001 – December 2001

Quarterly Progress Report
Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Parameter	2001											
	January	February	March	April	May	June	July	August	September	October	November	December
System Up-time (%)	97	76	93	99.9	99.9	99.9	100	98	98	99.9	99.9	99.9
Average System Vacuum ¹												
South Source Area (in. Hg)	18	18	20	17	16	16	16	17	16	16	19	16
North Source Area (in. Hg)	14	14	18	18	20	15	16	17	16	18	17	13
Average System Groundwater Flowrates ²												
Total System (gpm)	23	27	29	26	26	25	25	24	24	25	23	27
Dual Phase Extraction (gpm)	5	8	11	8	7	7	7	6	6	7	5	9
Bedrock Extraction (gpm)	18	19	18	18	19	18	18	18	18	18	18	18
Average System Vapor Flowrates ¹												
Dual Phase Extraction South Source Area (CFM)	189	157	137	168	180	180	180	180	180	185	145	170
Dual Phase Extraction North Source Area (CFM)	112	117	123	110	110	120	180	175	170	130	100	150
System Mass Removal Rate (lbs./hr) ³	0.33	0.13	0.06	0.08	0.05	0.03	0.03	0.04	0.04	0.03	0.06	0.003
System Mass Removed (lbs.) ³	387	383	136	245	145	53	94	88	107	87	100	10
Cumulative Mass Removed (lbs.) ³	387	770	906	1,151	1,296	1,349	1,442	1,530	1,637	1,724	1,824	1,834
Air Stripper Removal Efficiency (%) ³	99.6	99.6	99.6	99.6	99.6	99.6	99.3	99.5	99.2	99.2	99.3	99.6
Cumulative Groundwater Recovered (gallons) ²	1,546,559	2,637,226	3,833,248	4,999,392	6,141,936	7,178,379	8,369,973	9,431,598	10,454,171	11,489,759	12,514,776	13,711,132

¹ Instantaneous.

² Continuous.

³ Calculated.

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

gpm = gallons per minute
lbs. = pounds

3.7 TREATMENT SYSTEM PERFORMANCE

The System was fully operational on January 6, 2001. Since then, it has operated 97 percent of available hours through December 2001. The system has operated 99 percent of available hours through the fourth quarter of operation from October to December 2001. The limited downtime during the fourth quarter of operation is attributed to routine O&M. Table 3-5 provides a summary of monthly System operational data. The System is currently extracting soil vapor and groundwater from 23 dual-phase vacuum extraction (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 13.7 million gallons of groundwater through December 2001.

During the fourth quarter of operation, 3.2 million gallons of groundwater was extracted with an average flow rate of 25 gallons per minute, and a total of 197 pounds of VOCs were removed from the subsurface (see Figures 6 and 7, Appendix A). A total of 1,834 pounds of contaminants have been removed since startup of the system. The majority of VOCs are still being removed from the overburden through the vapor phase and stripped from groundwater during the vacuum extraction process. During the fourth quarter of operation, approximately 185 pounds (94 percent) of VOCs were removed by the vacuum extraction process and the remaining 12 pounds (6 percent) was removed by air stripping of the collected groundwater. Table 3-6 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, the total monthly mass of VOCs extracted by the treatment system has decreased during the fourth quarter of operation, which is expected since there is both less VOC mass to extract and it is expected that the more loosely bound and easily extracted VOCs were extracted first. This decrease in VOC mass can also be generally seen in the groundwater monitoring results discussed earlier in this report.

Table 3-6
System Analytical Data,
January 2001 – December 2001

Quarterly Progress Report
Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

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
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
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

See notes at end of table.

Table 3-6 (Continued)
System Analytical Data,
January 2001 – December 2001

Quarterly Progress Report
Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

Sample Location	Date	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Vapor Analytical Results¹ (mg/m³)					
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
	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
Groundwater Analytical Results² (µg/L)					
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 Vapor Analysis is by EPA Method TO-14 Modified.

² Groundwater Analysis is by EPA Method 8260.

Notes: µg/L = micrograms per liter
DCE = dichloroethylene
EPA = Environmental Protection Agency (United States)
mg/m³ = milligrams per cubic meter
NS = Vacuum Pump #2 was not sampled because it was shut down due to mechanical problems.
TCE = trichloroethylene

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 2001 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 % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	104	109	4.88	70 – 136	21
Chlorobenzene	100	103	2.96	70 – 132	25
1,1-Dichloroethylene	96	103	6.84	60 – 145	26
Toluene	97	103	5.99	69 – 137	22
Trichloroethene	105	109	3.94	63 – 149	28
Tetrachloroethene	108	112	3.27	60 – 140	24

Analyte	MS % Recovery	MSD % Recovery	RPD	Control Limits	RPD Limit
Benzene	107	105	2.08	70 – 136	21
Chlorobenzene	98	98	0.41	70 – 132	25
1,1-Dichloroethene	111	111	0.36	60 – 145	26
Toluene	137	110	21.39	69 – 137	22
Trichloroethene	102	137	5.80	63 – 149	28
Tetrachloroethene	106	108	1.12	60 – 140	24

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 2001 sampling event. Field duplicate precision is presented in the following tables.

Sample ID	Analyte	Practical Quantitation Limit	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
BR-07	Benzene	20	6.2		6.1		2
	cis-1,2-Dichloroethene	20	28.5		29.3		3
	trans-1,2-Dichloroethene	20	10.2		10.3		1
	Trichloroethene	20	4.7		4.6		2
	Vinyl Chloride	20	101		104		3
W-5	cis-1,2-Dichloroethene	10	39.5		36.2		8
	trans-1,2-Dichloroethene	10	9		8.5		6
	Trichloroethene	100	1,440		1,780		19

This table demonstrates that field duplicate precision is 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). Surrogate and MS 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 rinsates 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 2001 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 2001 event. No target VOCs were detected above the reporting limit in either rinsate blank.

Representativeness is considered complete due to the lack of 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

A comparison of analytical data from the Baseline, first quarterly (March), second quarterly (June), third quarterly (September), and fourth quarterly (December) sampling events provides an evaluation of the System performance. The System has been successful in removing VOC contaminants from the subsurface as indicated by the groundwater monitoring data and mass removal quantities. Overall decreases in TCE concentrations have been observed in both the South and North TCE Source Areas. A decrease is also evident in the system influent data. The performance of the System will continue to be tracked through future quarterly sampling events.

6.0 REFERENCES

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Harding ESE. 2001. *Quarterly Progress Report, First Quarter 2001, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (March).

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).

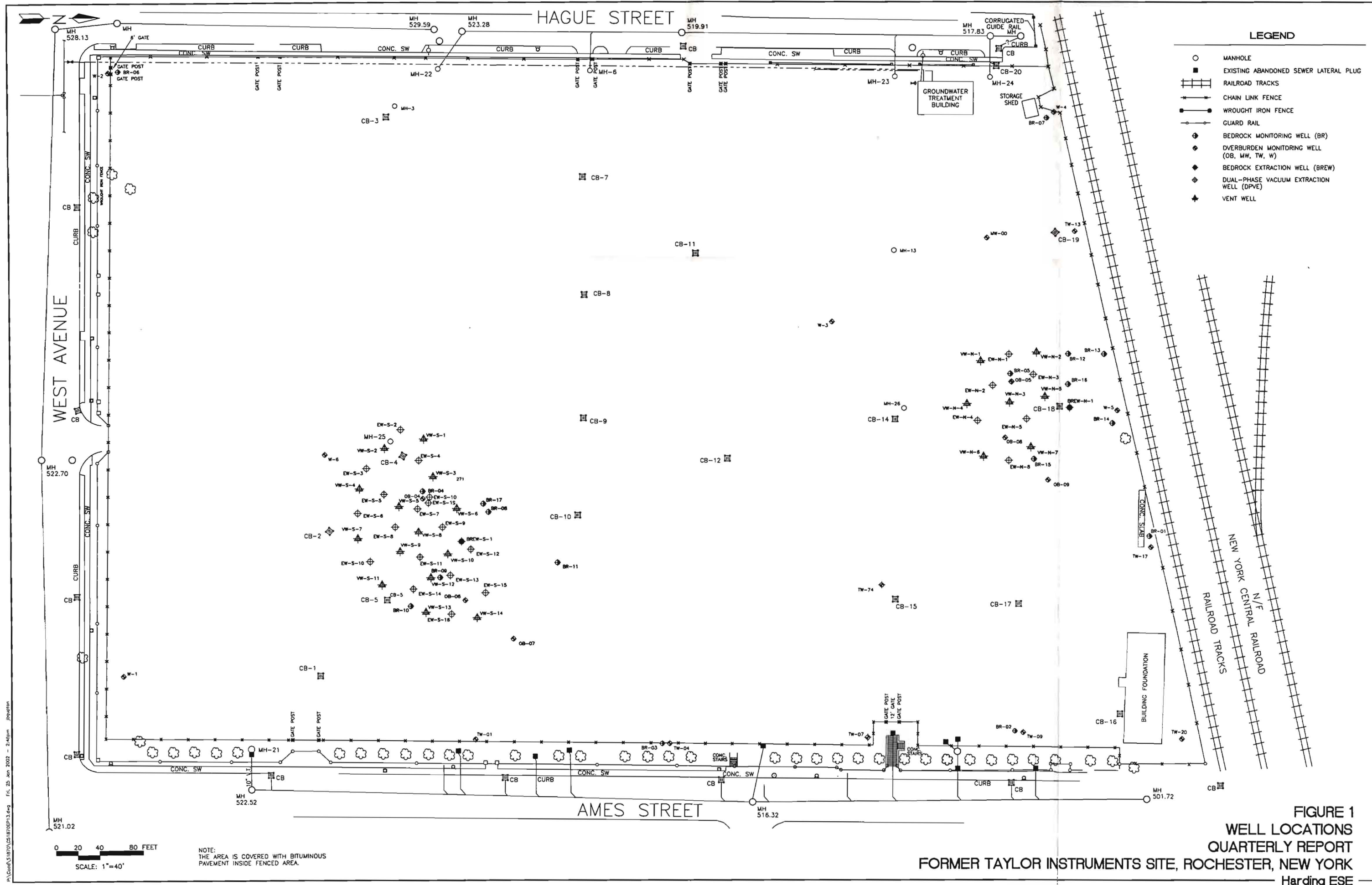
Harding ESE. 2001. *Quarterly Progress Report, Second Quarter 2001, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (August).

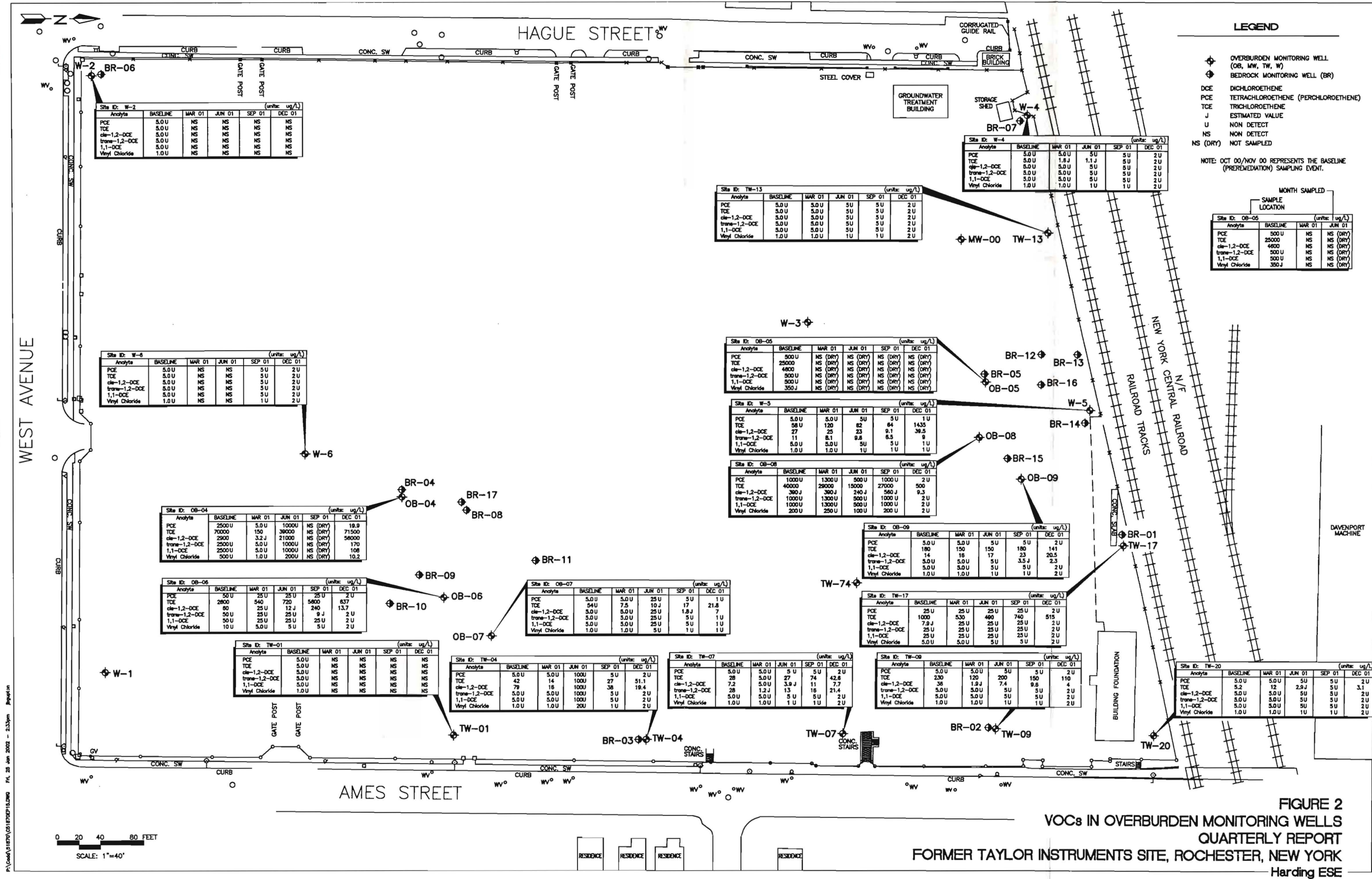
Harding ESE. 2001. *Quarterly Progress Report, Third Quarter 2001, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York*. Prepared for Combustion Engineering, Norwalk, Connecticut (November).

NYSDEC. 1997. Voluntary Cleanup Agreement regarding the Taylor Instruments Site, Number B8-0508-97-02 (November).

APPENDIX A

FIGURES





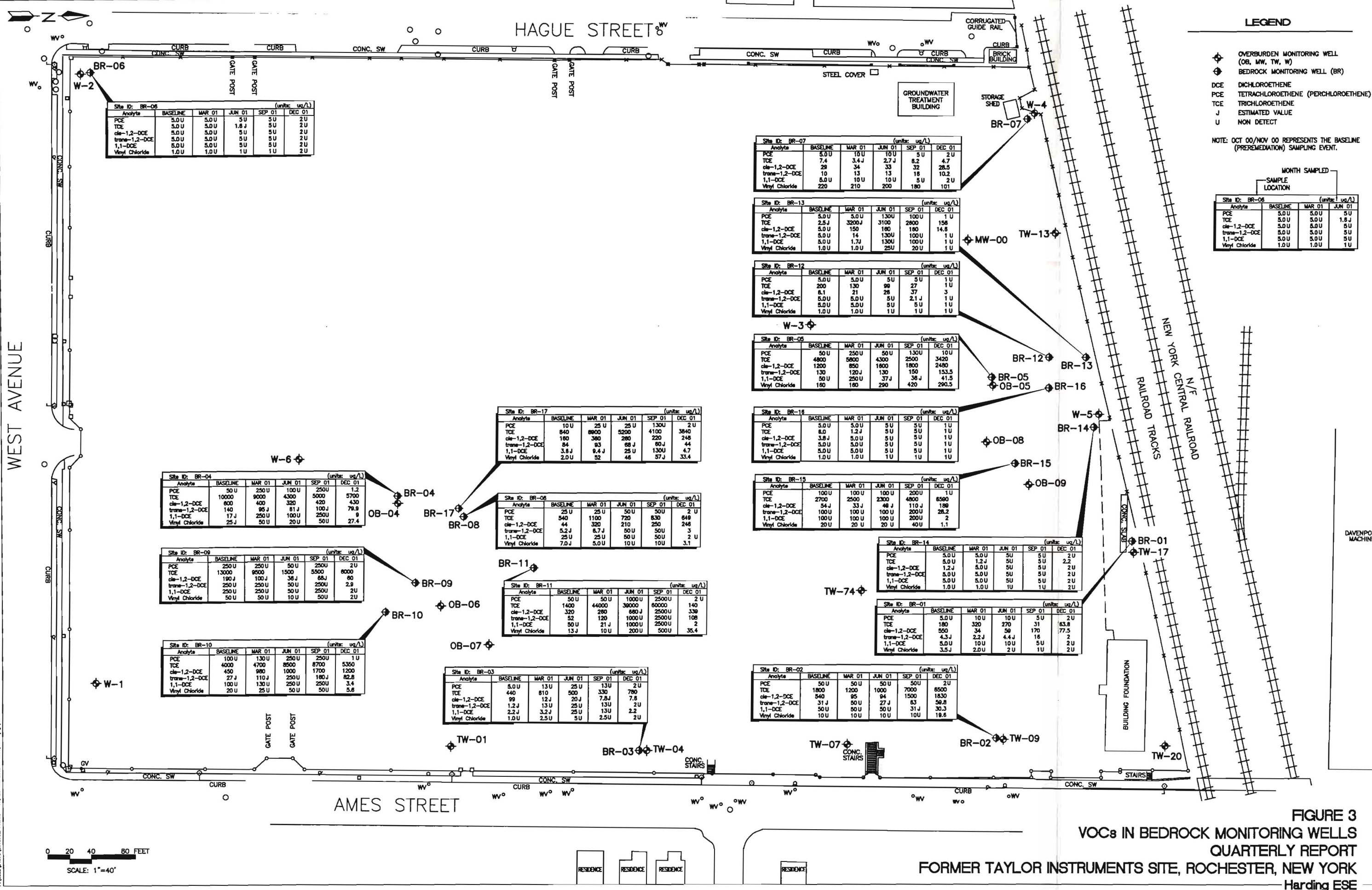
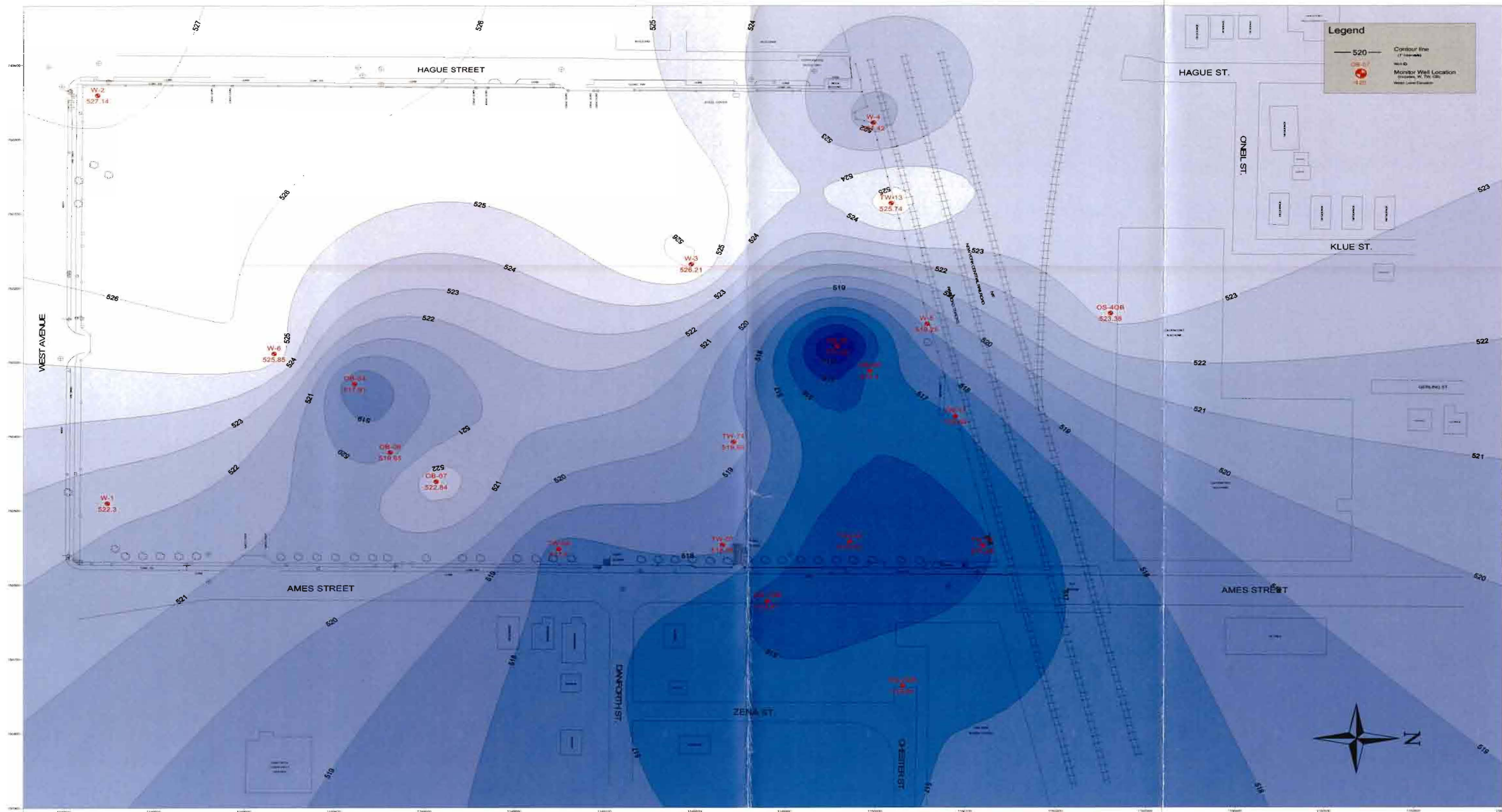
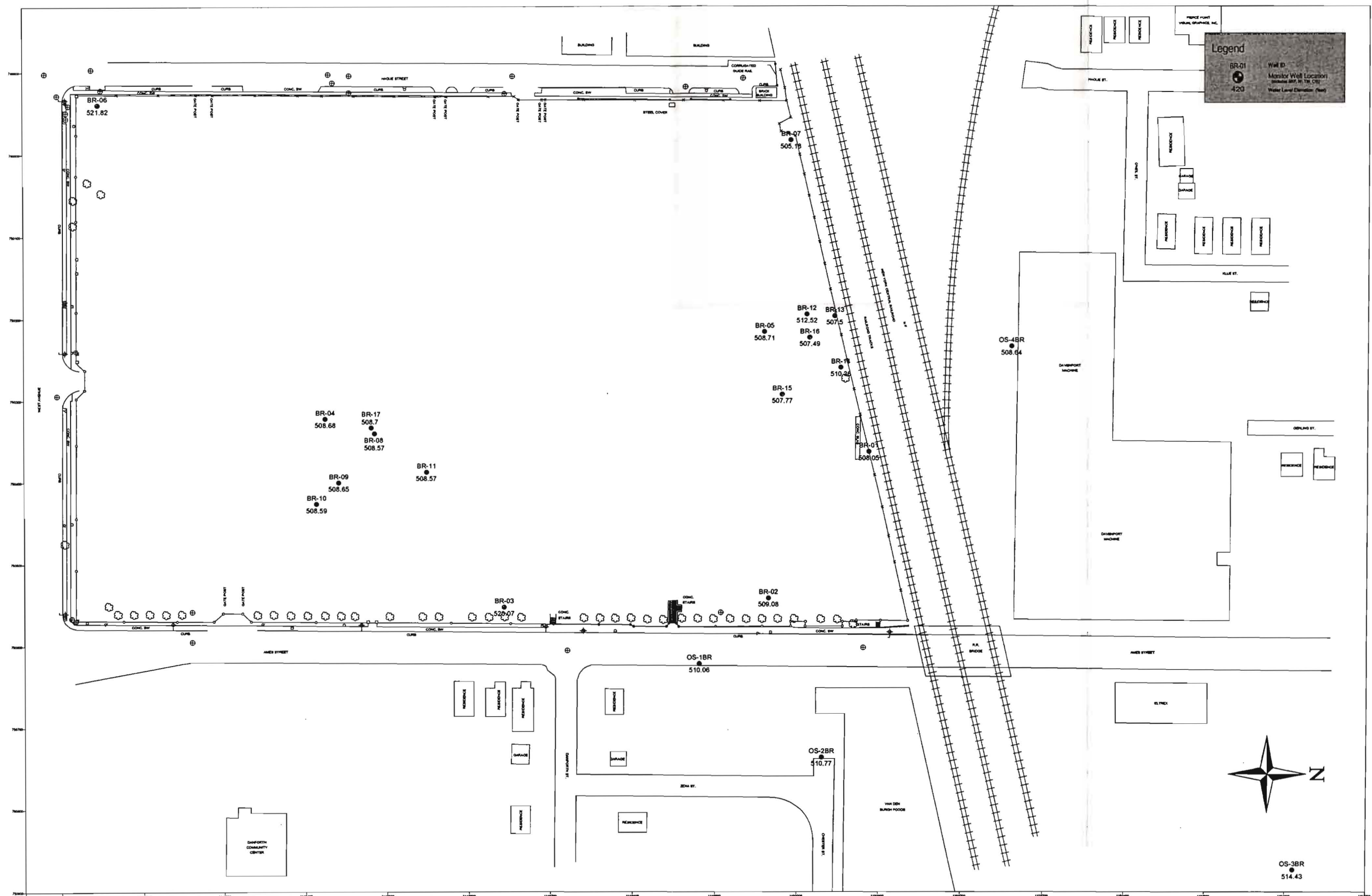


FIGURE 3
VOCs IN BEDROCK MONITORING WELLS
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
 Harding ESE



Note: Data for Monitor Wells OS-1OB, OS-2OB, OS-3OB, and OS-4OB was provided by Haley and Aldrich of New York. Data collected on December 11, 2001

FIGURE 4
OVERBURDEN POTENTIOMETRIC SURFACE MAP (DEC 2001)
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
Harding ESE



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 11, 2001

FIGURE 5
BEDROCK GROUNDWATER ELEVATIONS (DEC 2001)
QUARTERLY REPORT
FORMER TAYLOR INSTRUMENTS SITE, ROCHESTER, NEW YORK
Harding ESE

Figure 6
Monthly Average Groundwater Flowrates

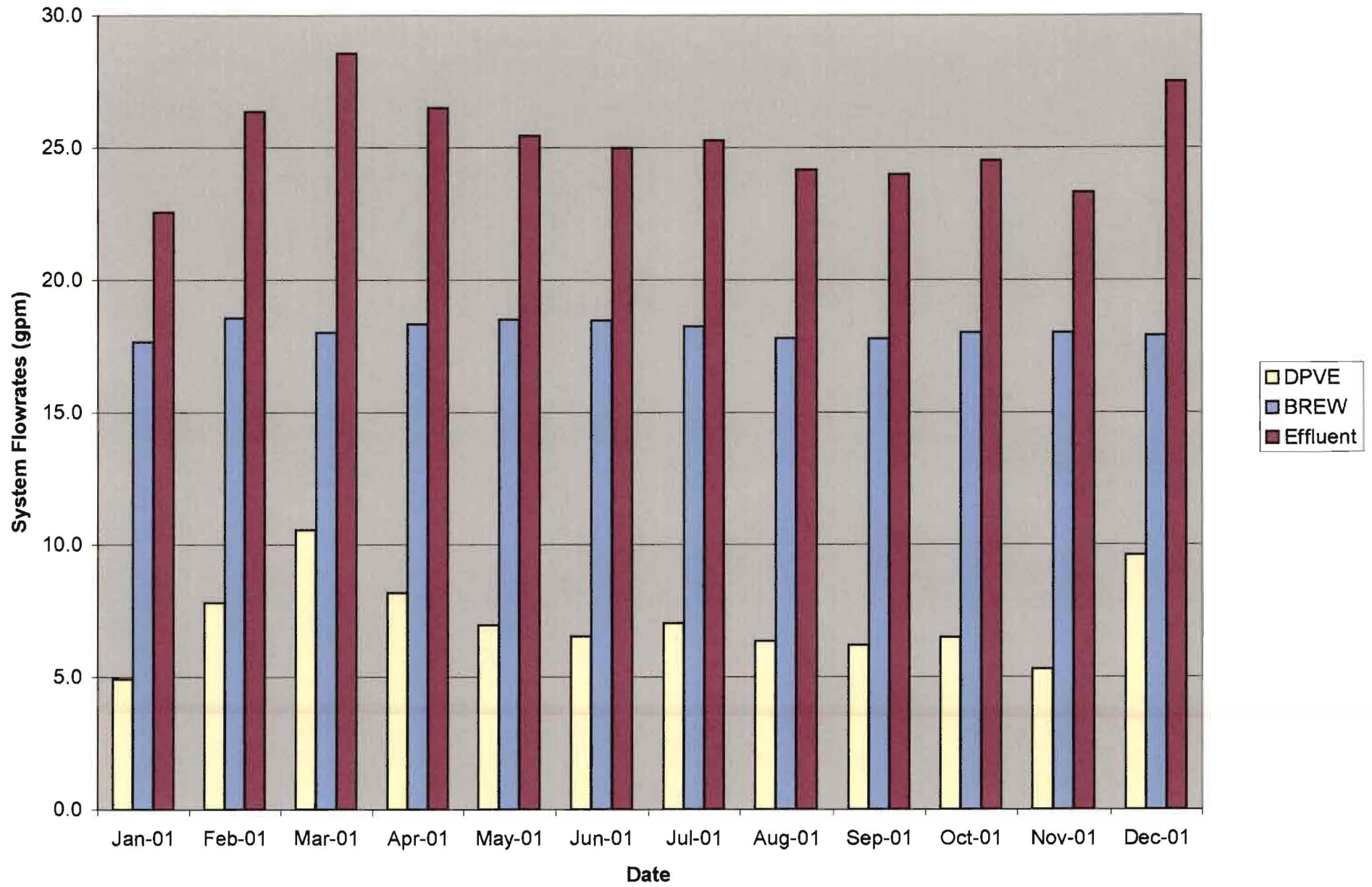
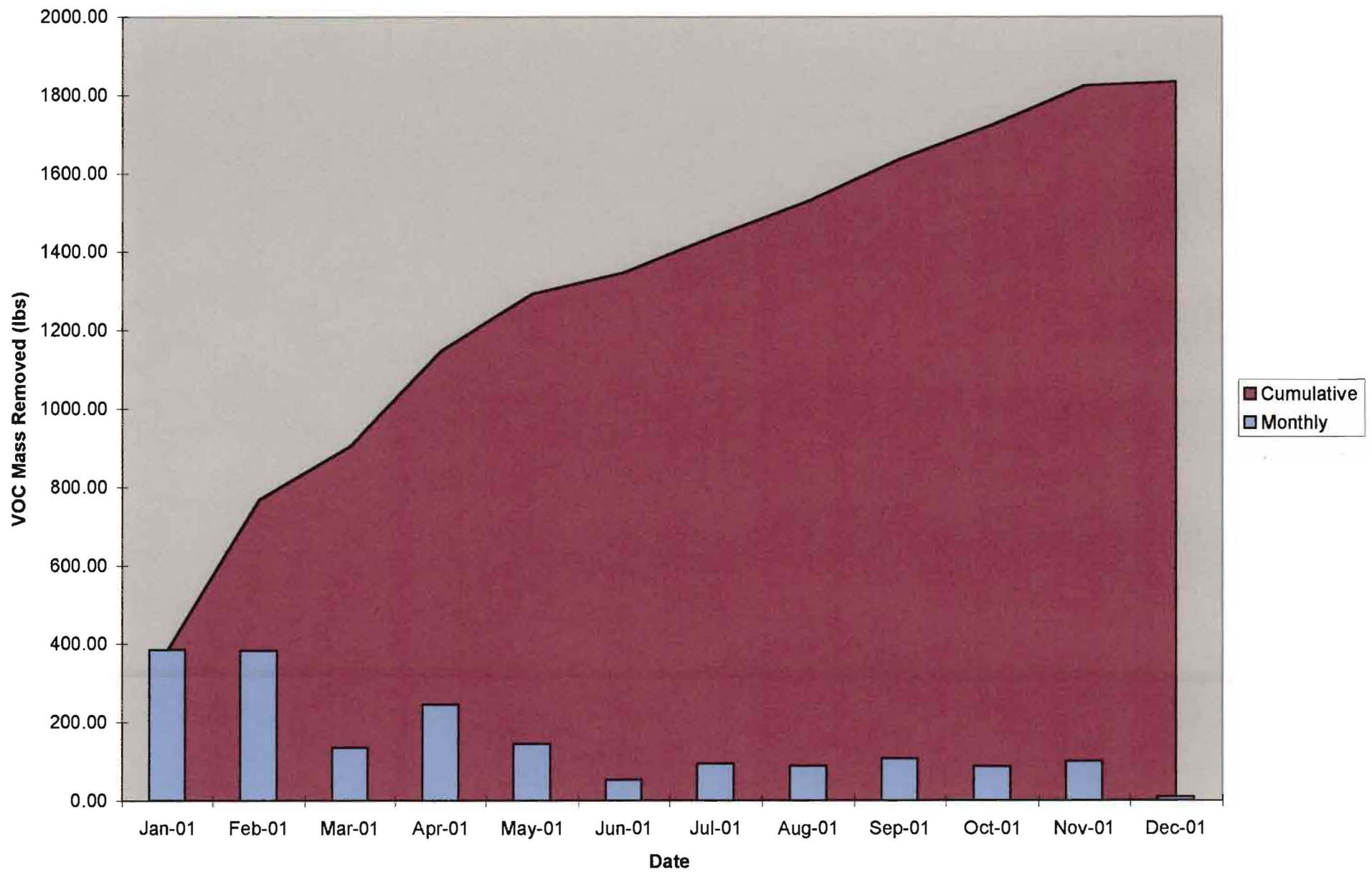


Figure 7
TCE Mass Removed



APPENDIX B

LABORATORY REPORTS, GROUNDWATER SAMPLING EVENTS

December 11 - 13, 2001
Analytical Data

TestAmerica

INCORPORATED

12/21/01

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
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 51870.4 FORMER TAYLOR INSTRUMENT.

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

Page 1

Sample Identification	Lab Number	Collection Date
-----	-----	-----
QATB01	01-A181430	12/11/01
QAFB01	01-A181431	12/11/01
QARB01	01-A181432	12/11/01
W-2	01-A181433	12/11/01
BR-06	01-A181434	12/12/01
BR-07	01-A181435	12/12/01
BR-07 DUP	01-A181436	12/12/01
W-6	01-A181437	12/12/01
TW-13	01-A181438	12/12/01
W-4	01-A181439	12/12/01
OB-06	01-A181440	12/13/01
BR-08	01-A181441	12/13/01
BR-17	01-A181442	12/13/01
TW-04	01-A181443	12/13/01
BR-03	01-A181444	12/13/01

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:



Report Date: 12/21/01

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

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

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181430
Sample ID: QATB01
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/11/01
Time Collected: 14:40
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	5:57	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	5:57	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	5:57	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181430

Sample ID: QATB01

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	965
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	5:57	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	5:57	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	5:57	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	5:57	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651

Sample report continued . . .



ANALYTICAL REPORT

Laboratory Number: 01-A181430
Sample ID: QATB01
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	5:57	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	5:57	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	108.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181431
Sample ID: QAFB01
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/11/01
Time Collected: 14:40
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	6:33	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	965
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	6:33	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	6:33	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651

Sample report continued . . .



ANALYTICAL REPORT

Laboratory Number: 01-A181431
Sample ID: QAFB01
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	6:33	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	6:33	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	6:33	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	6:33	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181431
 Sample ID: QAFB01
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	6:33	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	6:33	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181432
Sample ID: QARB01
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/11/01
Time Collected: 14:48
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	7:09	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	7:09	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	7:09	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651

Sample report continued . . .



ANALYTICAL REPORT

Laboratory Number: 01-A181432
 Sample ID: QARB01
 Project: 51870.4
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	7:09	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	7:09	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	7:09	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	7:09	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181432
 Sample ID: QARB01
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	7:09	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:09	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	109.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181433
Sample ID: W-2
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/11/01
Time Collected: 16:26
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Carbon Dioxide	ND	mg/l	3.0	3.0	1	12/15/01	15:00	T. Beverly	SM4500C02C	489
MISCELLANEOUS CHEMISTRY										
Alkalinity as CaCO3	216.	mg/l	5.00	5.00	1	12/18/01	15:52	J. Pollock	310.1M	9820
Chloride	21.6	mg/l	1.00	1.00	1	12/19/01	14:58	A. Bamarni	9251	2340

Carbon dioxide is a field test.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181434
Sample ID: BR-06
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/12/01
Time Collected: 9:02
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	7:44	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	7:44	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	7:44	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181434
Sample ID: BR-06
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	7:44	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	7:44	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	7:44	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	7:44	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181434
 Sample ID: BR-06
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	7:44	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	7:44	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	60. - 158.
VOA Surr Toluene-d8	106.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181435
Sample ID: BR-07
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/12/01
Time Collected: 11:23
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	8:20	K.Hill	8260B	9651
Benzene	0.0062	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	8:20	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	8:20	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181435

Sample ID: BR-07

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.0285	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
trans-1,2-Dichloroethene	0.0102	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	8:20	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	8:20	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	8:20	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	8:20	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Trichloroethene	0.0047	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Vinyl chloride	0.101	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181435
Sample ID: BR-07
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	8:20	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:20	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	108.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
 BARBARA SPARKS
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 01-A181436
 Sample ID: BR-07 DUP
 Sample Type: Ground water
 Site ID:

Project: 51870.4
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: ROB ELLIS

Date Collected: 12/12/01
 Time Collected: 11:23
 Date Received: 12/14/01
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	8:56	K.Hill	8260B	9651
Benzene	0.0061	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	8:56	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	8:56	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181436
Sample ID: BR-07 DUP
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.0293	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
trans-1,2-Dichloroethene	0.0103	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	8:56	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	8:56	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	8:56	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	8:56	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Trichloroethene	0.0046	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Vinyl chloride	0.104	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181436
Sample ID: BR-07 DUP
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	8:56	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	8:56	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181437
Sample ID: W-6
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/12/01
Time Collected: 15:04
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	0.0702	mg/l	0.0500	0.0500	1	12/19/01	9:32	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	9:32	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	9:32	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181437
Sample ID: W-6
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	9:32	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	9:32	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	9:32	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	9:32	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181437
 Sample ID: W-6
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	9:32	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	9:32	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	108.	60. - 158.
VOA Surr Toluene-d8	112.	82. - 127.
VOA Surr, 4-BFB	100.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181438
Sample ID: TW-13
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/12/01
Time Collected: 16:25
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	10:08	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	10:08	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	10:08	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181438
Sample ID: TW-13
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	10:08	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	10:08	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	10:08	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	10:08	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181438
 Sample ID: TW-13
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	10:08	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	10:08	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181439
Sample ID: W-4
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/12/01
Time Collected: 16:56
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	11:19	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	11:19	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	11:19	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181439

Sample ID: W-4

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	11:19	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	11:19	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	11:19	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	11:19	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181439
 Sample ID: W-4
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	11:19	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	11:19	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	108.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181440
Sample ID: OB-06
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/13/01
Time Collected: 8:59
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	15:32	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	15:32	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	15:32	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181440
Sample ID: OB-06
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.0137	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	15:32	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	15:32	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	15:32	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	15:32	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Trichloroethene	0.637	mg/l	0.0200	0.0020	10	12/20/01	19:34	K.Hill	8260B	4790
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181440

Sample ID: OB-06

Project: 51870.4

Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	15:32	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	15:32	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	115.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	98.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181441
Sample ID: BR-08
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/13/01
Time Collected: 10:25
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	0.942	mg/l	0.0500	0.0500	1	12/19/01	16:08	K.Hill	8260B	9651
Benzene	0.0027	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	16:08	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	16:08	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651

Sample report continued . . .



ANALYTICAL REPORT

Laboratory Number: 01-A181441

Sample ID: BR-08

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.246	mg/l	0.0200	0.0020	10	12/20/01	20:09	K.Hill	8260B	4790
trans-1,2-Dichloroethene	0.0030	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	16:08	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	16:08	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	16:08	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	16:08	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Toluene	0.0084	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Trichloroethene	0.649	mg/l	0.0200	0.0020	10	12/20/01	20:09	K.Hill	8260B	4790
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Vinyl chloride	0.0031	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Xylenes, Total	0.0070	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181441

Sample ID: BR-08

Project: 51870.4

Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	16:08	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:08	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	116.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	100.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181442
Sample ID: BR-17
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/13/01
Time Collected: 11:49
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	16:43	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	16:43	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	16:43	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181442
Sample ID: BR-17
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1-Dichloroethene	0.0047	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.248	mg/l	0.0200	0.0020	10	12/20/01	20:45	K.Hill	8260B	4790
trans-1,2-Dichloroethene	0.0440	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	16:43	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	16:43	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	16:43	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	16:43	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Trichloroethene	3.84	mg/l	0.100	0.0020	50	12/20/01	21:21	K.Hill	8260B	4793
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Vinyl chloride	0.0334	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181442
Sample ID: BR-17
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	16:43	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	16:43	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	108.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181443
Sample ID: TW-04
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/13/01
Time Collected: 15:10
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/20/01	18:58	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/20/01	18:58	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/20/01	18:58	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181443
Sample ID: TW-04
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.0194	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/20/01	18:58	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/20/01	18:58	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/20/01	18:58	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/20/01	18:58	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Trichloroethene	0.0511	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181443
Sample ID: TW-04
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/20/01	18:58	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/20/01	18:58	K.Hill	8260B	9651
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/17/01	17:02	K. Burritt	RSK175M	1156
Carbon Dioxide	ND	mg/L	3.0	3.0	1	12/15/01	15:00	T. Beverly	SM4500CO2C	489
Ethene	ND	mg/L	0.026	0.026	1	12/17/01	17:02	K. Burritt	RSK175M	1156
Ethane	ND	mg/L	0.026	0.026	1	12/17/01	17:02	K. Burritt	RSK175M	1156
METALS										
Ferrous Iron	1.50	mg/l	0.100	0.100	1	12/14/01	15:59	S. Duncan	3500D	9814
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	1.77	mg/l	0.100	0.100	1	12/14/01	21:31	A.Bamarni	353.2	9808
Sulfate	285.	mg/l	10.0	1.00	10	12/19/01	15:48	M.Shockley	375.4	2728
Alkalinity as CaCO3	219.	mg/l	5.00	5.00	1	12/18/01	15:52	J. Pollock	310.1M	9820
Total Organic Carbon	2.04	mg/l	1.00	1.00	1	12/18/01	1:36	Weatherly	415.1	1428
Sulfide	ND	mg/l	2.000	1.000	2	12/18/01	8:30	K. Warner	9030A/9034	797
Chloride	14.4	mg/l	1.00	1.00	1	12/19/01	15:01	A.Bamarni	9251	2340

Carbon dioxide is a field test.

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	116.	60. - 158.
VOA Surr Toluene-d8	105.	82. - 127.
VOA Surr, 4-BFB	100.	72. - 136.
VOA Surr, DBFM	113.	81. - 137.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181443
Sample ID: TW-04
Project: 51870.4
Page 4

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

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

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A181444
Sample ID: BR-03
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/13/01
Time Collected: 16:30
Date Received: 12/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/19/01	17:55	K.Hill	8260B	9651
Benzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Bromoform	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/19/01	17:55	K.Hill	8260B	9651
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Chloroform	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/19/01	17:55	K.Hill	8260B	9651
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181444
Sample ID: BR-03
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1-Dichloroethene	0.0022	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
cis-1,2-Dichloroethene	0.0076	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/19/01	17:55	K.Hill	8260B	9651
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/19/01	17:55	K.Hill	8260B	9651
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/19/01	17:55	K.Hill	8260B	9651
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/19/01	17:55	K.Hill	8260B	9651
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Styrene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Toluene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Trichloroethene	0.780	mg/l	0.0200	0.0020	10	12/21/01	2:42	K.Hill	8260B	4790
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A181444
 Sample ID: BR-03
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/19/01	17:55	K.Hill	8260B	4560
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/19/01	17:55	K.Hill	8260B	9651

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	107.	82. - 127.
VOA Surr, 4-BFB	97.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.00200	0.05200	0.05000	104	70. - 136.	9651	01-A181434
Chlorobenzene	mg/l	< 0.00200	0.05000	0.05000	100	70. - 132.	9651	01-A181434
1,1-Dichloroethene	mg/l	< 0.00200	0.04800	0.05000	96	60. - 145.	9651	01-A181434
Toluene	mg/l	< 0.00200	0.04860	0.05000	97	69. - 137.	9651	01-A181434
Trichloroethene	mg/l	< 0.00200	0.05230	0.05000	105	63. - 149.	9651	01-A181434
Tetrachloroethene	mg/l	< 0.00200	0.05420	0.05000	108	60. - 140.	9651	01-A181434
VOA Surr 1,2-DCA-d4	% Rec				108	60. - 158.	9651	
VOA Surr Toluene-d8	% Rec				107	82. - 127.	9651	
VOA Surr, 4-BFB	% Rec				104	72. - 136.	9651	
VOA Surr, DBFM	% Rec				110	81. - 137.	9651	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	8.01	15.4	7.50	99	80 - 120	9808	01-A181573
Nitrate-N as N	mg/l	8.01	15.4	7.50	99	80 - 120	9808	01-A181573
Sulfate	mg/l	< 1.00	16.8	20.0	84	80 - 120	2728	01-A183612
Total Organic Carbon	mg/l	2.90	21.9	20.0	95	80 - 120	1428	01-A183466
Sulfide	mg/l	< 1.000	16.90	19.70	86	80 - 120	797	01-A180484
Chloride	mg/l	21.6	31.3	10.0	97	80 - 120	2340	01-A181433

Matrix Spike Recovery

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

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 2

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Methane	mg/L	2.64	4.40	1.33	132	40 - 140	1156	01-A180180
Methane	mg/L	2.64	4.20	1.33	117	40 - 140	1156	01-A180180

Matrix Spike Duplicate

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

Benzene	mg/l	0.05200	0.05460	4.88	21.	9651
Chlorobenzene	mg/l	0.05000	0.05150	2.96	25.	9651
1,1-Dichloroethene	mg/l	0.04800	0.05140	6.84	26.	9651
Toluene	mg/l	0.04860	0.05160	5.99	22.	9651
Trichloroethene	mg/l	0.05230	0.05440	3.94	28.	9651
Tetrachloroethene	mg/l	0.05420	0.05600	3.27	24.	9651
VOA Surr 1,2-DCA-d4	% Rec		109.			9651
VOA Surr Toluene-d8	% Rec		109.			9651
VOA Surr, 4-BFB	% Rec		105.			9651
VOA Surr, DBFM	% Rec		112.			9651

Matrix Spike Duplicate

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

MISC PARAMETERS

Methane	mg/L	4.40	4.20	4.65	50	1156
Ethene	mg/L	2.20	2.40	8.70	50	1156
Ethane	mg/L	2.40	2.60	8.00	50	1156

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 3

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	15.4	15.4	0.00	20	9808
Sulfate	mg/l	16.8	16.1	4.26	20	2728
Total Organic Carbon	mg/l	21.9	21.2	3.25	20	1428
Sulfide	mg/l	16.90	17.00	0.59	20	797
Chloride	mg/l	31.3	31.1	0.64	20	2340

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.2500	0.2630	105	54 - 153	9651
Benzene	mg/l	0.05000	0.04940	99	79 - 124	9651
Bromobenzene	mg/l	0.0500	0.0477	95	76 - 122	9651
Bromochloromethane	mg/l	0.0500	0.0520	104	71 - 134	9651
Bromoform	mg/l	0.0500	0.0442	88	66 - 124	9651
Bromomethane	mg/l	0.0500	0.0469	94	51 - 145	9651
2-Butanone	mg/l	0.2500	0.2400	96	62 - 134	9651
n-Butylbenzene	mg/l	0.0500	0.0434	87	61 - 136	9651
sec-Butylbenzene	mg/l	0.0500	0.0459	92	69 - 130	9651
t-Butylbenzene	mg/l	0.0500	0.0473	95	66 - 129	9651
Carbon disulfide	mg/l	0.0500	0.0428	86	71 - 129	9651
Carbon tetrachloride	mg/l	0.05000	0.05110	102	70 - 130	9651
Chlorobenzene	mg/l	0.05000	0.04680	94	80 - 118	9651
Chloroethane	mg/l	0.0500	0.0489	98	59 - 144	9651
Chloroform	mg/l	0.0500	0.0474	95	74 - 123	9651
Chloromethane	mg/l	0.0500	0.0433	87	47 - 155	9651
2-Chlorotoluene	mg/l	0.0500	0.0466	93	74 - 126	9651
4-Chlorotoluene	mg/l	0.0500	0.0467	93	75 - 125	9651
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0524	105	58 - 133	9651

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 4

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibromochloromethane	mg/l	0.0500	0.0472	94	73 - 125	9651
1,2-Dibromoethane	mg/l	0.0500	0.0532	106	74 - 125	9651
Dibromomethane	mg/l	0.0500	0.0520	104	71 - 130	9651
1,2-Dichlorobenzene	mg/l	0.0500	0.0490	98	76 - 122	9651
1,3-Dichlorobenzene	mg/l	0.0500	0.0476	95	75 - 122	9651
1,4-Dichlorobenzene	mg/l	0.0500	0.0474	95	76 - 119	9651
Dichlorodifluoromethane	mg/l	0.0500	0.0545	109	53 - 151	9651
1,1-Dichloroethane	mg/l	0.05000	0.04950	99	76 - 127	9651
1,2-Dichloroethane	mg/l	0.0500	0.0522	104	66 - 133	9651
1,1-Dichloroethene	mg/l	0.05000	0.05030	101	72 - 127	9651
cis-1,2-Dichloroethene	mg/l	0.0500	0.0505	101	74 - 127	9651
cis-1,2-Dichloroethene	mg/l	0.0500	0.0508	102	74 - 127	4790
trans-1,2-Dichloroethene	mg/l	0.0500	0.0488	98	70 - 132	9651
1,2-Dichloropropane	mg/l	0.0500	0.0518	104	76 - 124	9651
1,3-Dichloropropane	mg/l	0.0500	0.0544	109	72 - 129	9651
2,2-Dichloropropane	mg/l	0.0500	0.0436	87	33 - 152	9651
1,1-Dichloropropene	mg/l	0.0500	0.0521	104	73 - 127	9651
cis-1,3-Dichloropropene	mg/l	0.0500	0.0510	102	58 - 131	9651
trans-1,3-Dichloropropene	mg/l	0.0500	0.0544	109	53 - 133	9651
Ethylbenzene	mg/l	0.05000	0.04820	96	77 - 126	9651
Hexachlorobutadiene	mg/l	0.05000	0.04610	92	52 - 139	9651
2-Hexanone	mg/l	0.2500	0.2370	95	61 - 136	9651
Isopropylbenzene	mg/l	0.0500	0.0472	94	74 - 127	9651
4-Isopropyltoluene	mg/l	0.0500	0.0454	91	69 - 113	9651
4-Methyl-2-pentanone	mg/l	0.2500	0.2640	106	63 - 135	9651
Methylene chloride	mg/l	0.0500	0.0487	97	70 - 130	9651
Naphthalene	mg/l	0.0500	0.0558	112	57 - 143	9651
n-Propylbenzene	mg/l	0.0500	0.0451	90	71 - 130	9651
Styrene	mg/l	0.0500	0.0453	91	77 - 122	9651
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0528	106	71 - 130	9651
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0510	102	57 - 136	9651
Tetrachloroethene	mg/l	0.05000	0.04830	97	72 - 126	9651
Toluene	mg/l	0.05000	0.04810	96	78 - 124	9651

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 5

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0495	99	58 - 139	9651
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0488	98	60 - 132	9651
1,1,1-Trichloroethane	mg/l	0.05000	0.05030	101	70 - 130	9651
1,1,2-Trichloroethane	mg/l	0.0500	0.0500	100	75 - 124	9651
Trichloroethene	mg/l	0.05000	0.04890	98	70 - 136	9651
Trichloroethene	mg/l	0.05000	0.04830	97	70 - 136	4790
1,2,3-Trichloropropane	mg/l	0.0500	0.0478	96	63 - 132	9651
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0477	95	73 - 127	9651
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0473	95	72 - 128	9651
Vinyl chloride	mg/l	0.0500	0.0476	95	62 - 144	9651
Xylenes, Total	mg/l	0.1500	0.1457	97	76 - 127	9651
Bromodichloromethane	mg/l	0.0500	0.0495	99	69 - 130	9651
Trichlorofluoromethane	mg/l	0.0500	0.0538	108	64 - 136	9651
Methane	mg/L	1.33	1.50	113	82 - 121	1156
Ethene	mg/L	2.32	2.40	103	83 - 120	1156
Ethane	mg/L	2.50	2.60	104	80 - 120	1156
VOA Surr 1,2-DCA-d4	% Rec			111	60 - 158	9651
VOA Surr 1,2-DCA-d4	% Rec			111	60 - 158	4790
VOA Surr Toluene-d8	% Rec			110	82 - 127	9651
VOA Surr Toluene-d8	% Rec			109	82 - 127	4790
VOA Surr, 4-BFB	% Rec			103	72 - 136	9651
VOA Surr, 4-BFB	% Rec			102	72 - 136	4790
VOA Surr, DBFM	% Rec			111	81 - 137	9651
VOA Surr, DBFM	% Rec			114	81 - 137	4790

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.50	113	82 - 121	1156
Ethene	mg/L	2.32	2.40	103	83 - 120	1156

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 6

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Ethane	mg/L	2.50	2.60	104	80 - 120	1156

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	5.70	104	90 - 110	9808
Sulfate	mg/l	25.0	24.8	99	90 - 110	2728
Total Organic Carbon	mg/l	200.	196.	98	90 - 110	1428
Sulfide	mg/l	19.70	18.80	95	90 - 110	797
Chloride	mg/l	15.0	14.7	98	90 - 110	2340

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
-----	-----	-----	-----	-----	-----	-----	-----
Nitrate-N as N	mg/l	< 0.100	< 0.100	N/A	15.	9808	01-A181574
Sulfate	mg/l	4.70	4.70	0.00	15.	2728	01-A183618
Chloride	mg/l	216.	228.	5.41	15.	2340	01-A182938

Blank Data

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

****VOA PARAMETERS****

Acetone	< 0.0084	mg/l	9651	12/19/01	2:23
Benzene	< 0.00070	mg/l	9651	12/19/01	2:23
Bromobenzene	< 0.0007	mg/l	9651	12/19/01	2:23
Bromochloromethane	< 0.0006	mg/l	9651	12/19/01	2:23
Bromoform	< 0.0005	mg/l	9651	12/19/01	2:23
Bromomethane	< 0.0008	mg/l	9651	12/19/01	2:23

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 7

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Butanone	< 0.0039	mg/l	9651	12/19/01	2:23
n-Butylbenzene	< 0.0007	mg/l	9651	12/19/01	2:23
sec-Butylbenzene	< 0.0008	mg/l	9651	12/19/01	2:23
t-Butylbenzene	< 0.0009	mg/l	9651	12/19/01	2:23
Carbon disulfide	< 0.0008	mg/l	9651	12/19/01	2:23
Carbon tetrachloride	< 0.00070	mg/l	9651	12/19/01	2:23
Chlorobenzene	< 0.00070	mg/l	9651	12/19/01	2:23
Chloroethane	< 0.0009	mg/l	9651	12/19/01	2:23
Chloroform	< 0.0006	mg/l	9651	12/19/01	2:23
Chloromethane	< 0.0005	mg/l	9651	12/19/01	2:23
2-Chlorotoluene	< 0.0007	mg/l	9651	12/19/01	2:23
4-Chlorotoluene	< 0.0006	mg/l	9651	12/19/01	2:23
1,2-Dibromo-3-chloropropane	< 0.0031	mg/l	9651	12/19/01	2:23
Dibromochloromethane	< 0.0004	mg/l	9651	12/19/01	2:23
1,2-Dibromoethane	< 0.0005	mg/l	9651	12/19/01	2:23
Dibromomethane	< 0.0004	mg/l	9651	12/19/01	2:23
1,2-Dichlorobenzene	< 0.0005	mg/l	9651	12/19/01	2:23
1,3-Dichlorobenzene	< 0.0006	mg/l	9651	12/19/01	2:23
1,4-Dichlorobenzene	< 0.0005	mg/l	9651	12/19/01	2:23
Dichlorodifluoromethane	< 0.0004	mg/l	9651	12/19/01	2:23
1,1-Dichloroethane	< 0.00080	mg/l	9651	12/19/01	2:23
1,2-Dichloroethane	< 0.0009	mg/l	9651	12/19/01	2:23
1,1-Dichloroethene	< 0.00080	mg/l	9651	12/19/01	2:23
cis-1,2-Dichloroethene	< 0.0007	mg/l	9651	12/19/01	2:23
cis-1,2-Dichloroethene	< 0.0007	mg/l	4790	12/20/01	14:49
trans-1,2-Dichloroethene	< 0.0008	mg/l	9651	12/19/01	2:23
1,2-Dichloropropane	< 0.0006	mg/l	9651	12/19/01	2:23
1,3-Dichloropropane	< 0.0006	mg/l	9651	12/19/01	2:23
2,2-Dichloropropane	< 0.0009	mg/l	9651	12/19/01	2:23
1,1-Dichloropropene	< 0.0007	mg/l	9651	12/19/01	2:23
cis-1,3-Dichloropropene	< 0.0007	mg/l	9651	12/19/01	2:23
trans-1,3-Dichloropropene	< 0.0005	mg/l	9651	12/19/01	2:23
Ethylbenzene	< 0.00070	mg/l	9651	12/19/01	2:23

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 8

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Hexachlorobutadiene	< 0.00080	mg/l	9651	12/19/01	2:23
2-Hexanone	< 0.0028	mg/l	9651	12/19/01	2:23
Isopropylbenzene	< 0.0008	mg/l	9651	12/19/01	2:23
4-Isopropyltoluene	< 0.0008	mg/l	9651	12/19/01	2:23
4-Methyl-2-pentanone	< 0.0046	mg/l	9651	12/19/01	2:23
Methylene chloride	< 0.0015	mg/l	9651	12/19/01	2:23
Naphthalene	< 0.0019	mg/l	9651	12/19/01	2:23
n-Propylbenzene	< 0.0008	mg/l	9651	12/19/01	2:23
Styrene	< 0.0009	mg/l	9651	12/19/01	2:23
1,1,1,2-Tetrachloroethane	< 0.0006	mg/l	9651	12/19/01	2:23
1,1,2,2-Tetrachloroethane	< 0.0005	mg/l	9651	12/19/01	2:23
Tetrachloroethene	< 0.00080	mg/l	9651	12/19/01	2:23
Toluene	< 0.00050	mg/l	9651	12/19/01	2:23
1,2,3-Trichlorobenzene	< 0.0007	mg/l	9651	12/19/01	2:23
1,2,4-Trichlorobenzene	< 0.0007	mg/l	9651	12/19/01	2:23
1,1,1-Trichloroethane	< 0.00040	mg/l	9651	12/19/01	2:23
1,1,2-Trichloroethane	< 0.0006	mg/l	9651	12/19/01	2:23
Trichloroethene	< 0.00050	mg/l	9651	12/19/01	2:23
Trichloroethene	< 0.00050	mg/l	4790	12/20/01	14:49
1,2,3-Trichloropropane	< 0.0006	mg/l	9651	12/19/01	2:23
1,2,4-Trimethylbenzene	< 0.0005	mg/l	9651	12/19/01	2:23
1,3,5-Trimethylbenzene	< 0.0006	mg/l	9651	12/19/01	2:23
Vinyl chloride	< 0.0007	mg/l	9651	12/19/01	2:23
Xylenes, Total	< 0.00080	mg/l	9651	12/19/01	2:23
Bromodichloromethane	< 0.0008	mg/l	9651	12/19/01	2:23
112-Trichl-122-tri-F-eth	< 0.0050	mg/l	4560	12/19/01	14:23
Trichlorofluoromethane	< 0.0006	mg/l	9651	12/19/01	2:23
VOA Surr 1,2-DCA-d4	109.	% Rec	9651	12/19/01	2:23
VOA Surr 1,2-DCA-d4	109.	% Rec	4790	12/20/01	14:49
VOA Surr Toluene-d8	111.	% Rec	9651	12/19/01	2:23
VOA Surr Toluene-d8	109.	% Rec	4790	12/20/01	14:49
VOA Surr, 4-BFB	92.	% Rec	9651	12/19/01	2:23
VOA Surr, 4-BFB	91.	% Rec	4790	12/20/01	14:49

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number: 51870.4

Page: 9

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, DBFM	111.	% Rec	9651	12/19/01	2:23
VOA Surr, DBFM	110.	% Rec	4790	12/20/01	14:49

Blank Data

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

MISC PARAMETERS

Nitrate-N as N	< 0.100	mg/l	9808	12/14/01	21:23
Sulfate	< 1.00	mg/l	2728	12/19/01	15:48
Total Organic Carbon	< 1.00	mg/l	1428	12/18/01	1:36
Sulfide	< 1.000	mg/l	797	12/18/01	8:30
Chloride	< 1.00	mg/l	2340	12/19/01	14:47

Blank Data

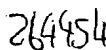
Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

MISC PARAMETERS

Methane	< 0.026	mg/L	1156	12/17/01	13:53
Ethene	< 0.026	mg/L	1156	12/17/01	13:53
Ethane	< 0.026	mg/L	1156	12/17/01	13:53

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 264454



Quote #: PO#: 9755

Car # 1365 and 1366

TestAmerica

INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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: Harding ESE Client #: _____

Address: 1400 Centerpoint Blvd. Suite 158

City/State/Zip Code: Knoxville, TN 37932

Project Manager: Rick Ryan

Telephone Number: (865) 531-1922 Fax: (865) 531-8226

Sampler Name: (Print Name) Rob Ellis

Sampler Signature: [Signature]

Project Name: Former Taylor Instruments

Project #: 57870.4

Site/Location ID: Rochester State: NY

Report To: Rick Ryan / Rob Ellis

Invoice To: Rick Ryan

Quote #: _____ PO#: 9755

TAT		Matrix		Preservation & # of Containers		Analyze For:												QC Deliverables				
☒ Standard ☐ Rush (surcharges may apply)		Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO ₃	HCl	NaOH + Zinc Acetate	H ₂ SO ₄	Methanol	None	Other (Specify)	Vol 8260 + From 113	Nitrate / Alkalinity	Sulfate / Chloride	Sulfide	Methane/Ethane/Ethane	TOC	Iron (II)	Carbon Dioxide	REMARKS
Date Needed: _____																						
Fax Results: ☒ Y ☐ N																						
SAMPLE ID																						
TW-13 181934		12/12/01	1625	G		GW	3							3								
W-4 39		12/12/01	1656	G		GW	3							3								
OB-06 40		12/13/01	0859	G		GW	3							3								
BL-08 41		12/13/01	1025	G		GW	3							3								
BL-17 42		12/13/01	1149	G		GW	3							3								
TW-04 43		12/13/01	1510	G		GW	9	1			4		3	1	1	1	3	2	1	2		
BL-03 181944		12/13/01	1630	G		GW	3							3								
Special Instructions: <u>lowest possible detection limits</u>		LABORATORY COMMENTS:																				
		Init Lab Temp: _____ Rec Lab Temp: _____ Custody Seals: Y N N/A Bottles Supplied by TestAmerica: Y N Method of Shipment: <u>Box CAC to Knoxville Office</u>																				
Relinquished By: <u>[Signature]</u>		Date: <u>12/13/01</u>	Time: <u>1730</u>	Received By: <u>MB</u>		Date: <u>12/14/01</u>	Time: <u>9:00</u>															
Relinquished By: _____		Date: _____	Time: _____	Received By: _____		Date: _____	Time: _____															
Relinquished By: _____		Date: _____	Time: _____	Received By: _____		Date: _____	Time: _____															

December 14 and 15, 2001
Analytical Data

TestAmerica

INCORPORATED

12/26/01

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
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 51870.4 FORMER TAYLOR INSTRUMENT.

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

Sample Identification	Lab Number	Collection Date
BR-14	01-A183684	12/14/01
BR-01	01-A183685	12/14/01
TW-17	01-A183686	12/14/01
TW-20	01-A183687	12/14/01
TW-07	01-A183688	12/15/01
TW-09	01-A183689	12/15/01
BR-02	01-A183690	12/15/01
OB-09	01-A183691	12/15/01
QATB02	01-A183692	12/15/01
QAFB02	01-A183693	12/15/01
QARB02	01-A183694	12/15/01

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: 

Report Date: 12/26/01

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

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

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183684
Sample ID: BR-14
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/14/01
Time Collected: 9:12
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	0.202	mg/l	0.0500	0.0500	1	12/21/01	4:29	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	4:29	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	4:29	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183684
Sample ID: BR-14
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	4:29	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	4:29	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	4:29	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	4:29	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Toluene	0.0050	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Trichloroethene	0.0022	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183684
 Sample ID: BR-14
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	4:29	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	4:29	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	112.	60. - 158.
VOA Surr Toluene-d8	106.	82. - 127.
VOA Surr, 4-BFB	100.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183685
Sample ID: BR-01
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/14/01
Time Collected: 10:58
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	5:04	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	5:04	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	5:04	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183685
Sample ID: BR-01
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
cis-1,2-Dichloroethene	0.0775	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
trans-1,2-Dichloroethene	0.0020	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	5:04	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	5:04	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	5:04	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	5:04	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Trichloroethene	0.0638	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183685

Sample ID: BR-01

Project: 51870.4

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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	5:04	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:04	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	60. - 158.
VOA Surr Toluene-d8	100.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	108.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183686
Sample ID: TW-17
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/14/01
Time Collected: 12:12
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	5:40	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	5:40	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	5:40	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183686
Sample ID: TW-17
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	5:40	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	5:40	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	5:40	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	5:40	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Trichloroethene	0.515	mg/l	0.0200	0.0020	10	12/21/01	16:58	K.Hill	8260B	6335
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183686
Sample ID: TW-17
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	5:40	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	5:40	K.Hill	8260B	1909
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	16:51	K. Burritt	RSK175M	2561
Carbon Dioxide	30.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	16:51	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	16:51	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.330	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1796
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.770	mg/l	0.100	0.100	1	12/18/01	17:49	S. Duncan	353.2	1795
Sulfate	81.0	mg/l	5.00	1.00	5	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	309.	mg/l	5.00	5.00	1	12/22/01	19:05	J. Pollock	310.1M	1961
Total Organic Carbon	2.97	mg/l	1.00	1.00	1	12/19/01	17:39	Weatherly	415.1	2099
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	15.8	mg/l	1.00	1.00	1	12/21/01	0:47	A.Bamarni	9251	3476

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

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

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183687
Sample ID: TW-20
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/14/01
Time Collected: 15:50
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	6:15	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	6:15	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	6:15	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183687
Sample ID: TW-20
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	6:15	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	6:15	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	6:15	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	6:15	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Trichloroethene	0.0031	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183687
 Sample ID: TW-20
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	6:15	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:15	K.Hill	8260B	1909
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	16:57	K. Burritt	RSK175M	2561
Carbon Dioxide	32.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	16:57	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	16:57	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.185	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1796
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.100	0.100	1	12/18/01	17:50	S. Duncan	353.2	1795
Sulfate	81.0	mg/l	5.00	1.00	5	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	327.	mg/l	5.00	5.00	1	12/22/01	19:05	J. Pollock	310.1M	1961
Total Organic Carbon	1.90	mg/l	1.00	1.00	1	12/19/01	17:39	Weatherly	415.1	2099
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	14.4	mg/l	1.00	1.00	1	12/21/01	0:47	A.Bamarni	9251	3476

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	60. - 158.
VOA Surr Toluene-d8	106.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	106.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
 # - Recovery outside Laboratory historical or method prescribed limits.
 Sample for Ferrous Iron analysis received outside method prescribed holding time.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183688
Sample ID: TW-07
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected: 9:26
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	6:51	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	6:51	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	6:51	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183688
Sample ID: TW-07
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
cis-1,2-Dichloroethene	0.0077	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
trans-1,2-Dichloroethene	0.0214	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	6:51	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	6:51	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	6:51	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	6:51	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Trichloroethene	0.0426	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183688
Sample ID: TW-07
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	0.0050	mg/l	0.0050	0.0020	1	12/21/01	6:51	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	6:51	K.Hill	8260B	1909
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	17:05	K. Burritt	RSK175M	2561
Carbon Dioxide	15.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	17:05	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	17:05	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.156	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1796
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	29.2	mg/l	0.500	0.100	5	12/18/01	18:11	S. Duncan	353.2	1795
Sulfate	379.	mg/l	10.0	1.00	10	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	264.	mg/l	5.00	5.00	1	12/22/01	19:05	J. Pollock	310.1M	1961
Total Organic Carbon	3.57	mg/l	1.00	1.00	1	12/18/01	17:50	Weatherly	415.1	2200
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	29.2	mg/l	2.00	1.00	2	12/21/01	2:09	A.Bamarni	9251	3476

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
- Recovery outside Laboratory historical or method prescribed limits.
Sample for Ferrous Iron analysis received outside method prescribed holding time.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183689
Sample ID: TW-09
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected: 11:25
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	7:27	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	7:27	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	7:27	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183689
Sample ID: TW-09
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
cis-1,2-Dichloroethene	0.0040	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	19C
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	7:27	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	7:27	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	7:27	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	7:27	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Trichloroethene	0.110	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183689

Sample ID: TW-09

Project: 51870.4

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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	7:27	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	7:27	K.Hill	8260B	1909
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	17:11	K. Burritt	RSK175M	2561
Carbon Dioxide	24.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	17:11	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	17:11	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.157	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1796
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	1.28	mg/l	0.100	0.100	1	12/18/01	17:52	S. Duncan	353.2	1795
Sulfate	123.	mg/l	10.0	1.00	10	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	158.	mg/l	5.00	5.00	1	12/22/01	19:05	J. Pollock	310.1M	1961
Total Organic Carbon	ND	mg/l	1.00	1.00	1	12/20/01	12:50	Weatherly	415.1	2203
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	2.69	mg/l	1.00	1.00	1	12/21/01	0:50	A.Bamarni	9251	3477

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	107.	82. - 127.
VOA Surr, 4-BFB	100.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

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

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183690
Sample ID: BR-02
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected: 12:52
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	8:03	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	8:03	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	8:03	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183690
Sample ID: BR-02
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1-Dichloroethene	0.0303	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
cis-1,2-Dichloroethene	1.83	mg/l	0.100	0.0020	50	12/21/01	17:34	K.Hill	8260B	6335
trans-1,2-Dichloroethene	0.0598	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	8:03	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	8:03	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	8:03	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	8:03	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Trichloroethene	6.50	mg/l	0.100	0.0020	50	12/21/01	17:34	K.Hill	8260B	6335
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Vinyl chloride	0.0196	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183690
 Sample ID: BR-02
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	8:03	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	8:03	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	108.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183691
Sample ID: OB-09
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected: 15:49
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	14:35	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	14:35	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	14:35	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Dichlorodifluoromethane	0.0026	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183691
Sample ID: OB-09
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
cis-1,2-Dichloroethene	0.0205	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
trans-1,2-Dichloroethene	0.0023	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	14:35	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	14:35	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	14:35	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	14:35	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Trichloroethene	0.141	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183691
Sample ID: OB-09
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	0.0080	mg/l	0.0050	0.0020	1	12/21/01	14:35	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	14:35	K.Hill	8260B	1909
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	17:18	K. Burritt	RSK175M	2561
Carbon Dioxide	37.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	17:18	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	17:18	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.217	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1796
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.370	mg/l	0.100	0.100	1	12/18/01	17:53	S. Duncan	353.2	1795
Sulfate	358.	mg/l	20.0	1.00	20	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	233.	mg/l	5.00	5.00	1	12/22/01	19:05	J. Pollock	310.1M	1961
Total Organic Carbon	2.02	mg/l	1.00	1.00	1	12/20/01	18:59	M Richards	415.1	3054
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	28.0	mg/l	2.00	1.00	2	12/21/01	2:14	A.Bamarni	9251	3477

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	97.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

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

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183692
Sample ID: QATB02
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected:
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	15:11	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	19C
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	15:11	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	15:11	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183692
Sample ID: QATB02
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	15:11	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	15:11	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	15:11	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	15:11	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183692
 Sample ID: QATB02
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	15:11	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:11	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	60. - 158.
VOA Surr Toluene-d8	105.	82. - 127.
VOA Surr, 4-BFB	99.	72. - 136.
VOA Surr, DBFM	105.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183693
Sample ID: QAFB02
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/15/01
Time Collected: 16:33
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	15:47	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	15:47	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	15:47	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183693
Sample ID: QAFB02
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	15:47	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	15:47	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	15:47	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	15:47	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183693
 Sample ID: QAFB02
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	15:47	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	15:47	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	99.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING LAWSON & ASSOCIATES 4997
 BARBARA SPARKS
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 01-A183694
 Sample ID: QARB02
 Sample Type: Ground water
 Site ID:

Project: 51870.4
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: ROB ELLIS

Date Collected: 12/15/01
 Time Collected: 16:40
 Date Received: 12/18/01
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/21/01	16:22	K.Hill	8260B	1909
Benzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Bromoform	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/21/01	16:22	K.Hill	8260B	1909
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Chloroform	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/21/01	16:22	K.Hill	8260B	1909
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183694
Sample ID: QARB02
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	16:22	K.Hill	8260B	1909
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	16:22	K.Hill	8260B	1909
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/21/01	16:22	K.Hill	8260B	1909
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/21/01	16:22	K.Hill	8260B	1909
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Styrene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Toluene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Trichloroethene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183694

Sample ID: QARB02

Project: 51870.4

Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	16:22	K.Hill	8260B	1918
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/21/01	16:22	K.Hill	8260B	1909

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.00200	0.05390	0.05000	108	70. - 136.	1909	01-A183689
Chlorobenzene	mg/l	< 0.00200	0.05080	0.05000	102	70. - 132.	1909	01-A183689
1,1-Dichloroethene	mg/l	< 0.00200	0.05060	0.05000	101	60. - 145.	1909	01-A183689
Toluene	mg/l	< 0.00200	0.05100	0.05000	102	69. - 137.	1909	01-A183689
Trichloroethene	mg/l	0.1100	0.1710	0.05000	122	63. - 149.	1909	01-A183689
Tetrachloroethene	mg/l	< 0.00200	0.05180	0.05000	104	60. - 140.	1909	01-A183689
VOA Surr 1,2-DCA-d4	% Rec				99	60. - 158.	1909	
VOA Surr Toluene-d8	% Rec				111	82. - 127.	1909	
VOA Surr, 4-BFB	% Rec				104	72. - 136.	1909	
VOA Surr, DBFM	% Rec				108	81. - 137.	1909	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.140	6.92	7.50	90	80 - 120	1795	01-A183622
Nitrate-N as N	mg/l	0.140	6.90	7.50	90	80 - 120	1795	01-A183622
Sulfate	mg/l	15.9	37.1	20.0	106	80 - 120	3066	01-A183621
Total Organic Carbon	mg/l	2.19	22.2	20.0	100	80 - 120	2200	01-A182906
Total Organic Carbon	mg/l	2.97	22.2	20.0	96	80 - 120	2099	01-A183686
Total Organic Carbon	mg/l	< 1.00	18.6	20.0	93	80 - 120	2203	01-A183689
Total Organic Carbon	mg/l	2.02	20.7	20.0	93	80 - 120	3054	01-A183691
Sulfide	mg/l	< 0.100	5.62	5.00	112	80 - 120	2269	01-A179537
Chloride	mg/l	12.0	19.8	10.0	78#	80 - 120	3476	01-A181968
Chloride	mg/l	2.69	12.4	10.0	97	80 - 120	3477	01-A183689

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Methane	mg/L	< 0.026	1.40	1.33	105	40 - 140	2561	01-A183633
Methane	mg/L	< 0.026	1.30	1.33	98	40 - 140	2561	01-A183633
Ethene	mg/L	< 0.026	2.30	2.32	99	40 - 140	2561	01-A183633
Ethene	mg/L	< 0.026	2.10	2.32	91	40 - 140	2561	01-A183633
Ethane	mg/L	< 0.026	2.50	2.50	100	40 - 140	2561	01-A183633
Ethane	mg/L	< 0.026	2.30	2.50	92	40 - 140	2561	01-A183633

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.05390	0.05380	0.19	21.	1909
Chlorobenzene	mg/l	0.05080	0.05180	1.95	25.	1909
1,1-Dichloroethene	mg/l	0.05060	0.05440	7.24	26.	1909
Toluene	mg/l	0.05100	0.05190	1.75	22.	1909
Trichloroethene	mg/l	0.1710	0.1630	4.79	28.	1909
Tetrachloroethene	mg/l	0.05180	0.05200	0.39	24.	1909
VOA Surr 1,2-DCA-d4	% Rec		103.			1909
VOA Surr Toluene-d8	% Rec		112.			1909
VOA Surr, 4-BFB	% Rec		101.			1909
VOA Surr, DBFM	% Rec		111.			1909

Matrix Spike Duplicate

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

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Methane	mg/L	1.40	1.30	7.41	50	2561
Ethene	mg/L	2.30	2.10	9.09	50	2561
Ethane	mg/L	2.50	2.30	8.33	50	2561

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	6.92	6.90	0.29	20	1795
Sulfate	mg/l	37.1	37.6	1.34	20	3066
Total Organic Carbon	mg/l	22.2	22.1	0.45	20	2200
Total Organic Carbon	mg/l	22.2	22.6	1.79	20	2099
Total Organic Carbon	mg/l	18.6	18.5	0.54	20	2203
Total Organic Carbon	mg/l	20.7	20.8	0.48	20	3054
Sulfide	mg/l	5.62	4.24	27.99#	20	2269
Chloride	mg/l	19.8	19.9	0.50	20	3476
Chloride	mg/l	12.4	12.1	2.45	20	3477

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.2500	0.2760	110	54 - 153	1909
Benzene	mg/l	0.05000	0.05080	102	79 - 124	1909
Bromobenzene	mg/l	0.05000	0.04670	93	76 - 122	1909
Bromochloromethane	mg/l	0.05000	0.05140	103	71 - 134	1909
Bromoform	mg/l	0.05000	0.04080	82	66 - 124	1909
Bromomethane	mg/l	0.05000	0.03800	76	51 - 145	1909
2-Butanone	mg/l	0.2500	0.2430	97	62 - 134	1909

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
n-Butylbenzene	mg/l	0.05000	0.04450	89	61 - 136	1909
sec-Butylbenzene	mg/l	0.05000	0.04640	93	69 - 130	1909
t-Butylbenzene	mg/l	0.05000	0.04740	95	66 - 129	1909
Carbon disulfide	mg/l	0.05000	0.04400	88	71 - 129	1909
Carbon tetrachloride	mg/l	0.05000	0.04610	92	70 - 130	1909
Chlorobenzene	mg/l	0.05000	0.04820	96	80 - 118	1909
Chloroethane	mg/l	0.05000	0.04690	94	59 - 144	1909
Chloroform	mg/l	0.05000	0.04800	96	74 - 123	1909
Chloromethane	mg/l	0.05000	0.04860	97	47 - 155	1909
2-Chlorotoluene	mg/l	0.05000	0.04690	94	74 - 126	1909
4-Chlorotoluene	mg/l	0.05000	0.04710	94	75 - 125	1909
1,2-Dibromo-3-chloropropane	mg/l	0.05000	0.04610	92	58 - 133	1909
Dibromochloromethane	mg/l	0.05000	0.04620	92	73 - 125	1909
1,2-Dibromoethane	mg/l	0.05000	0.05380	108	74 - 125	1909
Dibromomethane	mg/l	0.05000	0.05200	104	71 - 130	1909
1,2-Dichlorobenzene	mg/l	0.05000	0.04800	96	76 - 122	1909
1,3-Dichlorobenzene	mg/l	0.05000	0.04700	94	75 - 122	1909
1,4-Dichlorobenzene	mg/l	0.05000	0.04660	93	76 - 119	1909
Dichlorodifluoromethane	mg/l	0.05000	0.03530	71	53 - 151	1909
1,1-Dichloroethane	mg/l	0.05000	0.05080	102	76 - 127	1909
1,2-Dichloroethane	mg/l	0.05000	0.04790	96	66 - 133	1909
1,1-Dichloroethene	mg/l	0.05000	0.04880	98	72 - 127	1909
cis-1,2-Dichloroethene	mg/l	0.05000	0.04980	100	74 - 127	1909
cis-1,2-Dichloroethene	mg/l	0.05000	0.04980	100	74 - 127	6335
trans-1,2-Dichloroethene	mg/l	0.05000	0.04710	94	70 - 132	1909
1,2-Dichloropropane	mg/l	0.05000	0.05030	101	76 - 124	1909
1,3-Dichloropropane	mg/l	0.05000	0.05370	107	72 - 129	1909
2,2-Dichloropropane	mg/l	0.05000	0.04120	82	33 - 152	1909
1,1-Dichloropropene	mg/l	0.05000	0.04990	100	73 - 127	1909
cis-1,3-Dichloropropene	mg/l	0.05000	0.04940	99	58 - 131	1909
trans-1,3-Dichloropropene	mg/l	0.05000	0.05140	103	53 - 133	1909
Ethylbenzene	mg/l	0.05000	0.04890	98	77 - 126	1909
Hexachlorobutadiene	mg/l	0.05000	0.04180	84	52 - 139	1909

Project QC continued . . .

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2-Hexanone	mg/l	0.2500	0.2350	94	61 - 136	1909
Isopropylbenzene	mg/l	0.05000	0.04760	95	74 - 127	1909
4-Isopropyltoluene	mg/l	0.05000	0.04520	90	69 - 113	1909
4-Methyl-2-pentanone	mg/l	0.2500	0.2610	104	63 - 135	1909
Methylene chloride	mg/l	0.05000	0.05140	103	70 - 130	1909
Naphthalene	mg/l	0.05000	0.05250	105	57 - 143	1909
n-Propylbenzene	mg/l	0.05000	0.04630	93	71 - 130	1909
Styrene	mg/l	0.05000	0.04610	92	77 - 122	1909
1,1,1,2-Tetrachloroethane	mg/l	0.05000	0.05160	103	71 - 130	1909
1,1,2,2-Tetrachloroethane	mg/l	0.05000	0.05300	106	57 - 136	1909
Tetrachloroethene	mg/l	0.05000	0.04650	93	72 - 126	1909
Toluene	mg/l	0.05000	0.04860	97	78 - 124	1909
1,2,3-Trichlorobenzene	mg/l	0.05000	0.04640	93	58 - 139	1909
1,2,4-Trichlorobenzene	mg/l	0.05000	0.04520	90	60 - 132	1909
1,1,1-Trichloroethane	mg/l	0.05000	0.04620	92	70 - 130	1909
1,1,2-Trichloroethane	mg/l	0.05000	0.05030	101	75 - 124	1909
Trichloroethene	mg/l	0.05000	0.04880	98	70 - 136	1909
Trichloroethene	mg/l	0.05000	0.04810	96	70 - 136	6335
1,2,3-Trichloropropane	mg/l	0.05000	0.04770	95	63 - 132	1909
1,2,4-Trimethylbenzene	mg/l	0.05000	0.04760	95	73 - 127	1909
1,3,5-Trimethylbenzene	mg/l	0.05000	0.04700	94	72 - 128	1909
Vinyl chloride	mg/l	0.05000	0.04560	91	62 - 144	1909
Xylenes, Total	mg/l	0.1500	0.1469	98	76 - 127	1909
Bromodichloromethane	mg/l	0.05000	0.04800	96	69 - 130	1909
Trichlorofluoromethane	mg/l	0.05000	0.04570	91	64 - 136	1909
Methane	mg/L	1.33	1.40	105	82 - 121	2561
Ethene	mg/L	2.32	2.20	95	83 - 120	2561
Ethane	mg/L	2.50	2.40	96	80 - 120	2561

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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VOA Surr 1,2-DCA-d4	% Rec	104	60 - 158	1909
VOA Surr 1,2-DCA-d4	% Rec	104	60 - 158	6335
VOA Surr Toluene-d8	% Rec	111	82 - 127	1909
VOA Surr Toluene-d8	% Rec	111	82 - 127	6335
VOA Surr, 4-BFB	% Rec	100	72 - 136	1909
VOA Surr, 4-BFB	% Rec	103	72 - 136	6335
VOA Surr, DBFM	% Rec	112	81 - 137	1909
VOA Surr, DBFM	% Rec	112	81 - 137	6335

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.33	1.40	105	82 - 121	2561
Ethene	mg/L	2.32	2.20	95	83 - 120	2561
Ethane	mg/L	2.50	2.40	96	80 - 120	2561

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	5.80	105	90 - 110	1795
Sulfate	mg/l	25.0	23.7	95	90 - 110	3066
Total Organic Carbon	mg/l	200.	210.	105	90 - 110	2200
Total Organic Carbon	mg/l	200.	206.	103	90 - 110	2099
Total Organic Carbon	mg/l	200.	195.	98	90 - 110	2203
Total Organic Carbon	mg/l	200.	201.	100	90 - 110	3054
Sulfide	mg/l	5.00	5.33	107	90 - 110	2269
Chloride	mg/l	15.0	13.6	91	90 - 110	3476
Chloride	mg/l	15.0	13.5	90	90 - 110	3477

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Nitrate-N as N	mg/l	0.370	0.380	2.67	15.	1795	01-A183691
Sulfate	mg/l	9.80	9.50	3.11	15.	3066	01-A182619
Chloride	mg/l	29.2	30.0	2.70	15.	3476	01-A183688
Chloride	mg/l	89.0	89.0	0.00	15.	3477	01-A185422

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.00840	mg/l	1909	12/21/01	2:06
Benzene	< 0.00070	mg/l	1909	12/21/01	2:06
Bromobenzene	< 0.00070	mg/l	1909	12/21/01	2:06
Bromochloromethane	< 0.00060	mg/l	1909	12/21/01	2:06
Bromoform	< 0.00070	mg/l	1909	12/21/01	2:06
Bromomethane	< 0.00080	mg/l	1909	12/21/01	2:06
2-Butanone	< 0.00390	mg/l	1909	12/21/01	2:06
n-Butylbenzene	< 0.00070	mg/l	1909	12/21/01	2:06
sec-Butylbenzene	< 0.00080	mg/l	1909	12/21/01	2:06
t-Butylbenzene	< 0.00090	mg/l	1909	12/21/01	2:06
Carbon disulfide	< 0.00080	mg/l	1909	12/21/01	2:06
Carbon tetrachloride	< 0.00070	mg/l	1909	12/21/01	2:06
Chlorobenzene	< 0.00070	mg/l	1909	12/21/01	2:06
Chloroethane	< 0.00090	mg/l	1909	12/21/01	2:06
Chloroform	< 0.00060	mg/l	1909	12/21/01	2:06
Chloromethane	< 0.00050	mg/l	1909	12/21/01	2:06
2-Chlorotoluene	< 0.00070	mg/l	1909	12/21/01	2:06
4-Chlorotoluene	< 0.00060	mg/l	1909	12/21/01	2:06
1,2-Dibromo-3-chloropropane	< 0.00310	mg/l	1909	12/21/01	2:06
Dibromochloromethane	< 0.00040	mg/l	1909	12/21/01	2:06
1,2-Dibromoethane	< 0.00050	mg/l	1909	12/21/01	2:06
Dibromomethane	< 0.00040	mg/l	1909	12/21/01	2:06
1,2-Dichlorobenzene	< 0.00050	mg/l	1909	12/21/01	2:06

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,3-Dichlorobenzene	< 0.00060	mg/l	1909	12/21/01	2:06
1,4-Dichlorobenzene	< 0.00050	mg/l	1909	12/21/01	2:06
Dichlorodifluoromethane	< 0.00040	mg/l	1909	12/21/01	2:06
1,1-Dichloroethane	< 0.00080	mg/l	1909	12/21/01	2:06
1,2-Dichloroethane	< 0.00090	mg/l	1909	12/21/01	2:06
1,1-Dichloroethene	< 0.00080	mg/l	1909	12/21/01	2:06
cis-1,2-Dichloroethene	< 0.00070	mg/l	1909	12/21/01	2:06
cis-1,2-Dichloroethene	< 0.00070	mg/l	6335	12/21/01	14:00
trans-1,2-Dichloroethene	< 0.00080	mg/l	1909	12/21/01	2:06
1,2-Dichloropropane	< 0.00060	mg/l	1909	12/21/01	2:06
1,3-Dichloropropane	< 0.00060	mg/l	1909	12/21/01	2:06
2,2-Dichloropropane	< 0.00090	mg/l	1909	12/21/01	2:06
1,1-Dichloropropene	< 0.00070	mg/l	1909	12/21/01	2:06
cis-1,3-Dichloropropene	< 0.00070	mg/l	1909	12/21/01	2:06
trans-1,3-Dichloropropene	< 0.00050	mg/l	1909	12/21/01	2:06
Ethylbenzene	< 0.00070	mg/l	1909	12/21/01	2:06
Hexachlorobutadiene	< 0.00080	mg/l	1909	12/21/01	2:06
2-Hexanone	< 0.00280	mg/l	1909	12/21/01	2:06
Isopropylbenzene	< 0.00080	mg/l	1909	12/21/01	2:06
4-Isopropyltoluene	< 0.00080	mg/l	1909	12/21/01	2:06
4-Methyl-2-pentanone	< 0.00460	mg/l	1909	12/21/01	2:06
Methylene chloride	< 0.00150	mg/l	1909	12/21/01	2:06
Naphthalene	< 0.00190	mg/l	1909	12/21/01	2:06
n-Propylbenzene	< 0.00080	mg/l	1909	12/21/01	2:06
Styrene	< 0.00090	mg/l	1909	12/21/01	2:06
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	1909	12/21/01	2:06
1,1,2,2-Tetrachloroethane	< 0.00050	mg/l	1909	12/21/01	2:06
Tetrachloroethene	< 0.00080	mg/l	1909	12/21/01	2:06
Toluene	< 0.00070	mg/l	1909	12/21/01	2:06
1,2,3-Trichlorobenzene	< 0.00060	mg/l	1909	12/21/01	2:06
1,2,4-Trichlorobenzene	< 0.00160	mg/l	1909	12/21/01	2:06
1,1,1-Trichloroethane	< 0.00070	mg/l	1909	12/21/01	2:06
1,1,2-Trichloroethane	< 0.00050	mg/l	1909	12/21/01	2:06

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichloroethene	< 0.00090	mg/l	1909	12/21/01	2:06
Trichloroethene	< 0.00090	mg/l	6335	12/21/01	14:00
1,2,3-Trichloropropane	< 0.00040	mg/l	1909	12/21/01	2:06
1,2,4-Trimethylbenzene	< 0.00060	mg/l	1909	12/21/01	2:06
1,3,5-Trimethylbenzene	< 0.00080	mg/l	1909	12/21/01	2:06
Vinyl chloride	< 0.00050	mg/l	1909	12/21/01	2:06
Xylenes, Total	< 0.00090	mg/l	1909	12/21/01	2:06
Bromodichloromethane	< 0.00080	mg/l	1909	12/21/01	2:06
112-Trichl-122-tri-F-eth	< 0.0050	mg/l	1918	12/21/01	2:06
Trichlorofluoromethane	< 0.00070	mg/l	1909	12/21/01	2:06
VOA Surr 1,2-DCA-d4	110.	% Rec	1909	12/21/01	2:06
VOA Surr 1,2-DCA-d4	108.	% Rec	6335	12/21/01	14:00
VOA Surr Toluene-d8	106.	% Rec	1909	12/21/01	2:06
VOA Surr Toluene-d8	109.	% Rec	6335	12/21/01	14:00
VOA Surr, 4-BFB	95.	% Rec	1909	12/21/01	2:06
VOA Surr, 4-BFB	93.	% Rec	6335	12/21/01	14:00
VOA Surr, DBFM	107.	% Rec	1909	12/21/01	2:06
VOA Surr, DBFM	109.	% Rec	6335	12/21/01	14:00

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	1795	12/18/01	17:43
Sulfate	< 1.00	mg/l	3066	12/19/01	22:24
Total Organic Carbon	< 1.00	mg/l	2200	12/18/01	17:50
Total Organic Carbon	< 1.00	mg/l	2099	12/19/01	17:39
Total Organic Carbon	< 1.00	mg/l	2203	12/20/01	12:50
Total Organic Carbon	< 1.00	mg/l	3054	12/20/01	18:59
Sulfide	< 0.100	mg/l	2269	12/19/01	9:30
Chloride	< 1.00	mg/l	3476	12/21/01	0:34

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.4
 Page: 10

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloride	< 1.00	mg/l	3477	12/21/01	0:48

Blank Data

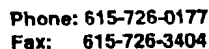
Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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MISC PARAMETERS

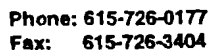
Methane	< 0.026	mg/L	2561	12/19/01	15:22
Ethene	< 0.026	mg/L	2561	12/19/01	15:22
Ethane	< 0.026	mg/L	2561	12/19/01	15:22

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 264924



ment: Fax COC to
Knoxville Office
Fax # (866) 693-4723



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

Sampler Signature: 7/14/14

Quote #: PO#: 9755

[illegible]

Knoxville Office
Fax # (865) 692-4723

December 16 and 17, 2001
Analytical Data

TestAmerica

INCORPORATED

12/27/01

HARDING ESE 4997
BARBARA SPARKS
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 51870.4 FORMER TAYLOR INSTRUMENT.
An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
BR-16	01-A183628	12/16/01
BR-12	01-A183629	12/16/01
BR-13	01-A183630	12/16/01
BR-15	01-A183631	12/16/01
BR-10	01-A183632	12/16/01
OB-07 MS/MSD	01-A183633	12/17/01
W-5	01-A183634	12/17/01
W-5 (DUP)	01-A183635	12/17/01
BR-04	01-A183636	12/17/01
OB-04	01-A183637	12/17/01

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: 12/27/01

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

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

HARDING ESE 4997
 BARBARA SPARKS
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 01-A183628
 Sample ID: BR-16
 Sample Type: Ground water
 Site ID:

Project: 51870.4
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: ROB ELLIS

Date Collected: 12/16/01
 Time Collected: 9:19
 Date Received: 12/18/01
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/21/01	18:10	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/21/01	18:10	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/21/01	18:10	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183628

Sample ID: BR-16

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
cis-1,2-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
trans-1,2-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	18:10	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	18:10	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	18:10	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/21/01	18:10	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Trichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183628
 Sample ID: BR-16
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	18:10	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:10	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	111.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
 BARBARA SPARKS
 1400 CENTERPOINT BLVD, STE.158
 KNOXVILLE, TN 37932-1968

Lab Number: 01-A183629
 Sample ID: BR-12
 Sample Type: Ground water
 Site ID:

Project: 51870.4
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: ROB ELLIS

Date Collected: 12/16/01
 Time Collected: 10:18
 Date Received: 12/18/01
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	0.483	mg/l	0.0250	0.0250	1	12/21/01	18:45	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/21/01	18:45	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/21/01	18:45	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183629
Sample ID: BR-12
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.0030	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
trans-1,2-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	18:45	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	18:45	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	18:45	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/21/01	18:45	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Trichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183629

Sample ID: BR-12

Project: 51870.4

Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	18:45	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	18:45	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	111.	60. - 158.
VOA Surr Toluene-d8	107.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183630
Sample ID: BR-13
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/16/01
Time Collected: 11:20
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/21/01	19:21	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/21/01	19:21	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/21/01	19:21	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183630

Sample ID: BR-13

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.0146	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
trans-1,2-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	19:21	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	19:21	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	19:21	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/21/01	19:21	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Trichloroethene	0.156	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183630
 Sample ID: BR-13
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	19:21	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:21	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	106.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183631
Sample ID: BR-15
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/16/01
Time Collected: 13:59
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/21/01	19:57	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/21/01	19:57	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/21/01	19:57	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183631
Sample ID: BR-15
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1-Dichloroethene	0.0020	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.189	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	6921
trans-1,2-Dichloroethene	0.0282	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	19:57	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	19:57	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	19:57	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/21/01	19:57	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Trichloroethene	6.59	mg/l	0.200	0.0020	100	12/24/01	0:55	K.Hill	8260B	6921
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Vinyl chloride	0.0011	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183631
 Sample ID: BR-15
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	0.0080	mg/l	0.0050	0.0020	1	12/21/01	19:57	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	19:57	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	103.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	106.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
 BARBARA SPARKS
 1400 CENTERPOINT BLVD, STE. 158
 KNOXVILLE, TN 37932-1968

Lab Number: 01-A183632
 Sample ID: BR-10
 Sample Type: Ground water
 Site ID:

Project: 51870.4
 Project Name: FORMER TAYLOR INSTRUMENT
 Sampler: ROB ELLIS

Date Collected: 12/16/01
 Time Collected: 15:13
 Date Received: 12/18/01
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/21/01	20:33	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	173
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/21/01	20:33	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/21/01	20:33	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183632
Sample ID: BR-10
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1-Dichloroethene	0.0034	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
cis-1,2-Dichloroethene	1.20	mg/l	0.200	0.0020	100	12/24/01	1:30	K.Hill	8260B	6921
trans-1,2-Dichloroethene	0.0828	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/21/01	20:33	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/21/01	20:33	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/21/01	20:33	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/21/01	20:33	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Trichloroethene	5.35	mg/l	0.200	0.0020	100	12/24/01	1:30	K.Hill	8260B	6921
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Vinyl chloride	0.0056	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183632
 Sample ID: BR-10
 Project: 51870.4
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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/21/01	20:33	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/21/01	20:33	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	108.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	102.	72. - 136.
VOA Surr, DBFM	112.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183633
Sample ID: OB-07 MS/MSD
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/17/01
Time Collected: 10:17
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/23/01	23:08	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/23/01	23:08	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/23/01	23:08	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183633
Sample ID: OB-07 MS/MSD
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.0070	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
trans-1,2-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/23/01	23:08	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/23/01	23:08	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/23/01	23:08	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/23/01	23:08	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Trichloroethene	0.0218	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183633
Sample ID: OB-07 MS/MSD
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	0.0110	mg/l	0.0050	0.0020	1	12/21/01	21:08	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/23/01	23:08	K.Hill	8260B	1735
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	16:38	K. Burritt	RSK175M	2561
Carbon Dioxide	ND	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	16:38	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	16:38	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	ND	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1753
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	6.52	mg/l	0.100	0.100	1	12/18/01	17:48	S. Duncan	353.2	1795
Sulfate	253.	mg/l	10.0	1.00	10	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	71.0	mg/l	5.00	5.00	1	12/20/01	15:25	J. Pollock	310.1M	3610
Total Organic Carbon	6.42	mg/l	1.00	1.00	1	12/19/01	17:39	Weatherly	415.1	2099
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	34.8	mg/l	2.00	1.00	2	12/21/01	2:12	A.Bamarni	9251	3476

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	60. - 158.
VOA Surr Toluene-d8	107.	82. - 127.
VOA Surr, 4-BFB	101.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
- Recovery outside Laboratory historical or method prescribed limits.
Sample for Ferrous Iron analysis received outside method prescribed holding time.

End of Sample Report.



ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183634
Sample ID: W-5
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/17/01
Time Collected: 13:13
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/22/01	2:30	K.Hill	8260B	173
Benzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	173
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/22/01	2:30	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/22/01	2:30	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183634

Sample ID: W-5

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.0395	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
trans-1,2-Dichloroethene	0.0090	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	2:30	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	2:30	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	2:30	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/22/01	2:30	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Trichloroethene	1.44	mg/l	0.100	0.0020	50	12/24/01	2:06	K.Hill	8260B	6921
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183634

Sample ID: W-5

Project: 51870.4

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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	2:30	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	2:30	K.Hill	8260B	1735
MISCELLANEOUS GC PARAMETERS										
Methane	ND	mg/L	0.026	0.026	1	12/19/01	16:44	K. Burritt	RSK175M	2561
Carbon Dioxide	42.0	mg/L	3.0	3.0	1	12/22/01	2:05	T. Beverly	SM4500C02C	5238
Ethene	ND	mg/L	0.026	0.026	1	12/19/01	16:44	K. Burritt	RSK175M	2561
Ethane	ND	mg/L	0.026	0.026	1	12/19/01	16:44	K. Burritt	RSK175M	2561
METALS										
Ferrous Iron	0.998	mg/l	0.100	0.100	1	12/18/01	19:18	J. Pollock	3500D	1753
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.100	0.100	1	12/18/01	17:48	S. Duncan	353.2	1795
Sulfate	84.5	mg/l	5.00	1.00	5	12/19/01	22:24	M.Shockley	375.4	3066
Alkalinity as CaCO3	345.	mg/l	5.00	5.00	1	12/20/01	15:25	J. Pollock	310.1M	3610
Total Organic Carbon	2.61	mg/l	1.00	1.00	1	12/19/01	17:39	Weatherly	415.1	2099
Sulfide	ND	mg/l	0.100	0.0500	2	12/19/01	9:30	S. Prayter	9030B/9034	2269
Chloride	10.9	mg/l	1.00	1.00	1	12/21/01	0:46	A.Bamarni	9251	3476

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	111.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

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

End of Sample Report.



ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183635
Sample ID: W-5 (DUP)
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/17/01
Time Collected: 13:13
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/22/01	3:05	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/22/01	3:05	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/22/01	3:05	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183635

Sample ID: W-5 (DUP)

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1-Dichloroethene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.0362	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
trans-1,2-Dichloroethene	0.0085	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	3:05	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	3:05	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	3:05	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/22/01	3:05	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Tetrachloroethene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Trichloroethene	1.78	mg/l	0.100	0.0020	50	12/24/01	2:42	K.Hill	8260B	6921
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Vinyl chloride	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183635

Sample ID: W-5 (DUP)

Project: 51870.4

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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	3:05	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:05	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	109.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183636
Sample ID: BR-04
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/17/01
Time Collected: 15:11
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/22/01	3:41	K.Hill	8260B	1735
Benzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	173
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/22/01	3:41	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/22/01	3:41	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183636
Sample ID: BR-04
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1-Dichloroethene	0.0090	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
cis-1,2-Dichloroethene	0.430	mg/l	0.200	0.0020	100	12/24/01	3:17	K.Hill	8260B	6921
trans-1,2-Dichloroethene	0.0799	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	3:41	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	3:41	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	3:41	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/22/01	3:41	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Tetrachloroethene	0.0012	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Toluene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Trichloroethene	5.70	mg/l	0.200	0.0020	100	12/24/01	3:17	K.Hill	8260B	6921
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Vinyl chloride	0.0274	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183636
Sample ID: BR-04
Project: 51870.4
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	3:41	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	3:41	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	106.	72. - 136.
VOA Surr, DBFM	106.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A183637
Sample ID: OB-04
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/17/01
Time Collected: 15:30
Date Received: 12/18/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0250	0.0250	1	12/22/01	4:16	K.Hill	8260B	1735
Benzene	0.0054	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Bromobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Bromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Bromoform	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Bromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
2-Butanone	ND	mg/l	0.0250	0.0250	1	12/22/01	4:16	K.Hill	8260B	1735
n-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
sec-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
t-Butylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Carbon disulfide	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Carbon tetrachloride	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Chlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Chloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Chloroform	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Chloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
2-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
4-Chlorotoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0050	0.0050	1	12/22/01	4:16	K.Hill	8260B	1735
Dibromochloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2-Dibromoethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Dibromomethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,3-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,4-Dichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Dichlorodifluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183637

Sample ID: OB-04

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	0.0155	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2-Dichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1-Dichloroethene	0.108	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
cis-1,2-Dichloroethene	56.0	mg/l	1.00	0.0020	500	12/26/01	22:48	K.Hill	8260B	6925
trans-1,2-Dichloroethene	0.170	mg/l	0.100	0.0020	50	12/26/01	19:13	K.Hill	8260B	6921
1,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,3-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
2,2-Dichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
cis-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
trans-1,3-Dichloropropene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Ethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Hexachlorobutadiene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	4:16	K.Hill	8260B	1735
Isopropylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
4-Isopropyltoluene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	4:16	K.Hill	8260B	1735
Methylene chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	4:16	K.Hill	8260B	1735
Naphthalene	ND	mg/l	0.0025	0.0025	1	12/22/01	4:16	K.Hill	8260B	1735
n-Propylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Styrene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Tetrachloroethene	0.0199	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Toluene	0.0021	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2,3-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2,4-Trichlorobenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1,1-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,1,2-Trichloroethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Trichloroethene	71.5	mg/l	1.00	0.0020	500	12/26/01	22:48	K.Hill	8260B	6925
1,2,3-Trichloropropane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,2,4-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
1,3,5-Trimethylbenzene	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Vinyl chloride	0.0102	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Xylenes, Total	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735
Bromodichloromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A183637
 Sample ID: OB-04
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	4:16	K.Hill	8260B	6977
Trichlorofluoromethane	ND	mg/l	0.0010	0.0010	1	12/22/01	4:16	K.Hill	8260B	1735

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	115.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	99.	72. - 136.
VOA Surr, DBFM	116.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.00100	0.05340	0.05000	107	70. - 136.	1735	01-A183633
Chlorobenzene	mg/l	< 0.00100	0.04900	0.05000	98	70. - 132.	1735	01-A183633
1,1-Dichloroethene	mg/l	< 0.00100	0.05540	0.05000	111	60. - 145.	1735	01-A183633
Toluene	mg/l	< 0.00100	0.06830	0.05000	137	69. - 137.	1735	01-A183633
Trichloroethene	mg/l	0.02180	0.07270	0.05000	102	63. - 149.	1735	01-A183633
Tetrachloroethene	mg/l	< 0.00100	0.05320	0.05000	106	60. - 140.	1735	01-A1836
VOA Surr 1,2-DCA-d4	% Rec				113	60. - 158.	1735	
VOA Surr Toluene-d8	% Rec				108	82. - 127.	1735	
VOA Surr, 4-BFB	% Rec				107	72. - 136.	1735	
VOA Surr, DBFM	% Rec				112	81. - 137.	1735	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.140	6.92	7.50	90	80 - 120	1795	01-A183622
Nitrate-N as N	mg/l	0.140	6.90	7.50	90	80 - 120	1795	01-A183622
Sulfate	mg/l	15.9	37.1	20.0	106	80 - 120	3066	01-A183621
Total Organic Carbon	mg/l	2.97	22.2	20.0	96	80 - 120	2099	01-A183686
Sulfide	mg/l	< 0.100	5.62	5.00	112	80 - 120	2269	01-A179537
Chloride	mg/l	12.0	19.8	10.0	78#	80 - 120	3476	01-A181968

Matrix Spike Recovery

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

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 2

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
Methane	mg/L	< 0.026	1.40	1.33	105	40 - 140	2561	01-A183633
Methane	mg/L	< 0.026	1.30	1.33	98	40 - 140	2561	01-A183633
Ethene	mg/L	< 0.026	2.30	2.32	99	40 - 140	2561	01-A183633
Ethene	mg/L	< 0.026	2.10	2.32	91	40 - 140	2561	01-A183633
Ethane	mg/L	< 0.026	2.50	2.50	100	40 - 140	2561	01-A183633
Ethane	mg/L	< 0.026	2.30	2.50	92	40 - 140	2561	01-A183633

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.05340	0.05230	2.08	21.	1735
Chlorobenzene	mg/l	0.04900	0.04920	0.41	25.	1735
1,1-Dichloroethene	mg/l	0.05540	0.05520	0.36	26.	1735
Toluene	mg/l	0.06830	0.05510	21.39	22.	1735
Trichloroethene	mg/l	0.07270	0.06860	5.80	28.	1735
Tetrachloroethene	mg/l	0.05320	0.05380	1.12	24.	1735
VOA Surr 1,2-DCA-d4	% Rec		115.			1735
VOA Surr Toluene-d8	% Rec		109.			1735
VOA Surr, 4-BFB	% Rec		108.			1735
VOA Surr, DBFM	% Rec		114.			1735

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.40	1.30	7.41	50	2561
Ethene	mg/L	2.30	2.10	9.09	50	2561

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 3

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Ethane	mg/L	2.50	2.30	8.33	50	2561

Matrix Spike Duplicate

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

MISC PARAMETERS

Nitrate-N as N	mg/l	6.92	6.90	0.29	20	1795
Sulfate	mg/l	37.1	37.6	1.34	20	3066
Total Organic Carbon	mg/l	22.2	22.6	1.79	20	2099
Sulfide	mg/l	5.62	4.24	27.99#	20	2269
Chloride	mg/l	19.8	19.9	0.50	20	3476

Laboratory Control Data

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

VOA PARAMETERS

Acetone	mg/l	0.2500	0.2770	111	54 - 153	1735
Benzene	mg/l	0.05000	0.05010	100	79 - 124	1735
Bromobenzene	mg/l	0.05000	0.04740	95	76 - 122	1735
Bromochloromethane	mg/l	0.05000	0.05040	101	71 - 134	1735
Bromoform	mg/l	0.05000	0.04020	80	66 - 124	1735
Bromomethane	mg/l	0.05000	0.04820	96	51 - 145	1735
2-Butanone	mg/l	0.2500	0.2390	96	62 - 134	1735
n-Butylbenzene	mg/l	0.05000	0.04390	88	61 - 136	1735
sec-Butylbenzene	mg/l	0.05000	0.04630	93	69 - 130	1735
t-Butylbenzene	mg/l	0.05000	0.04740	95	66 - 129	1735
Carbon disulfide	mg/l	0.05000	0.04380	88	71 - 129	1735
Carbon tetrachloride	mg/l	0.05000	0.04530	91	70 - 130	1735
Chlorobenzene	mg/l	0.05000	0.04760	95	80 - 118	1735

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 4

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chloroethane	mg/l	0.05000	0.04900	98	59 - 144	1735
Chloroform	mg/l	0.05000	0.04720	94	74 - 123	1735
Chloromethane	mg/l	0.05000	0.04650	93	47 - 155	1735
2-Chlorotoluene	mg/l	0.05000	0.04680	94	74 - 126	1735
4-Chlorotoluene	mg/l	0.05000	0.04690	94	75 - 125	1735
1,2-Dibromo-3-chloropropane	mg/l	0.05000	0.04720	94	58 - 133	1735
Dibromochloromethane	mg/l	0.05000	0.04610	92	73 - 125	1735
1,2-Dibromoethane	mg/l	0.05000	0.05280	106	74 - 125	1735
Dibromomethane	mg/l	0.05000	0.05000	100	71 - 130	1735
1,2-Dichlorobenzene	mg/l	0.05000	0.04730	95	76 - 122	1735
1,3-Dichlorobenzene	mg/l	0.05000	0.04680	94	75 - 122	1735
1,4-Dichlorobenzene	mg/l	0.05000	0.04600	92	76 - 119	1735
Dichlorodifluoromethane	mg/l	0.05000	0.03630	73	53 - 151	1735
1,1-Dichloroethane	mg/l	0.05000	0.05040	101	76 - 127	1735
1,2-Dichloroethane	mg/l	0.05000	0.04780	96	66 - 133	1735
1,1-Dichloroethene	mg/l	0.05000	0.04950	99	72 - 127	1735
cis-1,2-Dichloroethene	mg/l	0.05000	0.04980	100	74 - 127	1735
cis-1,2-Dichloroethene	mg/l	0.05000	0.04990	100	74 - 127	6921
trans-1,2-Dichloroethene	mg/l	0.05000	0.04760	95	70 - 132	1735
trans-1,2-Dichloroethene	mg/l	0.05000	0.04900	98	70 - 132	6921
1,2-Dichloropropane	mg/l	0.05000	0.04930	99	76 - 124	1735
1,3-Dichloropropane	mg/l	0.05000	0.05210	104	72 - 129	1735
2,2-Dichloropropane	mg/l	0.05000	0.04310	86	33 - 152	1735
1,1-Dichloropropene	mg/l	0.05000	0.04900	98	73 - 127	1735
cis-1,3-Dichloropropene	mg/l	0.05000	0.04800	96	58 - 131	1735
trans-1,3-Dichloropropene	mg/l	0.05000	0.05080	102	53 - 133	1735
Ethylbenzene	mg/l	0.05000	0.04820	96	77 - 126	1735
Hexachlorobutadiene	mg/l	0.05000	0.03980	80	52 - 139	1735
2-Hexanone	mg/l	0.2500	0.2340	94	61 - 136	1735
Isopropylbenzene	mg/l	0.05000	0.04750	95	74 - 127	1735
4-Isopropyltoluene	mg/l	0.05000	0.04520	90	69 - 113	1735
4-Methyl-2-pentanone	mg/l	0.2500	0.2550	102	63 - 135	1735
Methylene chloride	mg/l	0.05000	0.05210	104	70 - 130	1735

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 5

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.05000	0.05200	104	57 - 143	1735
n-Propylbenzene	mg/l	0.05000	0.04600	92	71 - 130	1735
Styrene	mg/l	0.05000	0.04600	92	77 - 122	1735
1,1,1,2-Tetrachloroethane	mg/l	0.05000	0.05090	102	71 - 130	1735
1,1,2,2-Tetrachloroethane	mg/l	0.05000	0.05180	104	57 - 136	1735
Tetrachloroethene	mg/l	0.05000	0.04580	92	72 - 126	1735
Toluene	mg/l	0.05000	0.04800	96	78 - 124	1735
1,2,3-Trichlorobenzene	mg/l	0.05000	0.04530	91	58 - 139	1735
1,2,4-Trichlorobenzene	mg/l	0.05000	0.04420	88	60 - 132	1735
1,1,1-Trichloroethane	mg/l	0.05000	0.04590	92	70 - 130	1735
1,1,2-Trichloroethane	mg/l	0.05000	0.04940	99	75 - 124	1735
Trichloroethene	mg/l	0.05000	0.04810	96	70 - 136	1735
Trichloroethene	mg/l	0.05000	0.05160	103	70 - 136	6921
1,2,3-Trichloropropane	mg/l	0.05000	0.04710	94	63 - 132	1735
1,2,4-Trimethylbenzene	mg/l	0.05000	0.04740	95	73 - 127	1735
1,3,5-Trimethylbenzene	mg/l	0.05000	0.04760	95	72 - 128	1735
Vinyl chloride	mg/l	0.05000	0.04810	96	62 - 144	1735
Xylenes, Total	mg/l	0.1500	0.1462	97	76 - 127	1735
Bromodichloromethane	mg/l	0.05000	0.04730	95	69 - 130	1735
Trichlorofluoromethane	mg/l	0.05000	0.04550	91	64 - 136	1735
Methane	mg/L	1.33	1.40	105	82 - 121	2561
Ethene	mg/L	2.32	2.20	95	83 - 120	2561
Ethane	mg/L	2.50	2.40	96	80 - 120	2561
VOA Surr 1,2-DCA-d4	% Rec			104	60 - 158	1735
VOA Surr 1,2-DCA-d4	% Rec			101	60 - 158	6921
VOA Surr Toluene-d8	% Rec			111	82 - 127	1735
VOA Surr Toluene-d8	% Rec			110	82 - 127	6921
VOA Surr, 4-BFB	% Rec			103	72 - 136	1735
VOA Surr, 4-BFB	% Rec			100	72 - 136	6921
VOA Surr, DBFM	% Rec			112	81 - 137	1735
VOA Surr, DBFM	% Rec			110	81 - 137	6921

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 6

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Methane	mg/L	1.33	1.40	105	82 - 121	2561
Ethene	mg/L	2.32	2.20	95	83 - 120	2561
Ethane	mg/L	2.50	2.40	96	80 - 120	2561

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	5.80	105	90 - 110	1795
Sulfate	mg/l	25.0	23.7	95	90 - 110	3066
Total Organic Carbon	mg/l	200.	206.	103	90 - 110	2099
Sulfide	mg/l	5.00	5.33	107	90 - 110	2269
Chloride	mg/l	15.0	13.6	91	90 - 110	3476

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
-----	-----	-----	-----	-----	-----	-----	-----
Nitrate-N as N	mg/l	0.370	0.380	2.67	15.	1795	01-A183691
Sulfate	mg/l	9.80	9.50	3.11	15.	3066	01-A182619
Chloride	mg/l	29.2	30.0	2.70	15.	3476	01-A183688

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
VOA PARAMETERS					
Acetone	< 0.00840	mg/l	1735	12/21/01	14:00
Benzene	< 0.00070	mg/l	1735	12/21/01	14:00

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.4
 Page: 7

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
Bromobenzene	< 0.00070	mg/l	1735	12/21/01	14:00
Bromochloromethane	< 0.00060	mg/l	1735	12/21/01	14:00
Bromoform	< 0.00070	mg/l	1735	12/21/01	14:00
Bromomethane	< 0.00080	mg/l	1735	12/21/01	14:00
2-Butanone	< 0.00390	mg/l	1735	12/21/01	14:00
n-Butylbenzene	< 0.00070	mg/l	1735	12/21/01	14:00
sec-Butylbenzene	< 0.00080	mg/l	1735	12/21/01	14:00
t-Butylbenzene	< 0.00090	mg/l	1735	12/21/01	14:00
Carbon disulfide	< 0.00080	mg/l	1735	12/21/01	14:00
Carbon tetrachloride	< 0.00070	mg/l	1735	12/21/01	14:00
Chlorobenzene	< 0.00070	mg/l	1735	12/21/01	14:00
Chloroethane	< 0.00090	mg/l	1735	12/21/01	14:00
Chloroform	< 0.00060	mg/l	1735	12/21/01	14:00
Chloromethane	< 0.00050	mg/l	1735	12/21/01	14:00
2-Chlorotoluene	< 0.00070	mg/l	1735	12/21/01	14:00
4-Chlorotoluene	< 0.00060	mg/l	1735	12/21/01	14:00
1,2-Dibromo-3-chloropropane	< 0.00310	mg/l	1735	12/21/01	14:00
Dibromochloromethane	< 0.00040	mg/l	1735	12/21/01	14:00
1,2-Dibromoethane	< 0.00050	mg/l	1735	12/21/01	14:00
Dibromomethane	< 0.00040	mg/l	1735	12/21/01	14:00
1,2-Dichlorobenzene	< 0.00050	mg/l	1735	12/21/01	14:00
1,3-Dichlorobenzene	< 0.00060	mg/l	1735	12/21/01	14:00
1,4-Dichlorobenzene	< 0.00050	mg/l	1735	12/21/01	14:00
Dichlorodifluoromethane	< 0.00040	mg/l	1735	12/21/01	14:00
1,1-Dichloroethane	< 0.00080	mg/l	1735	12/21/01	14:00
1,2-Dichloroethane	< 0.00090	mg/l	1735	12/21/01	14:00
1,1-Dichloroethene	< 0.00080	mg/l	1735	12/21/01	14:00
cis-1,2-Dichloroethene	< 0.00070	mg/l	1735	12/21/01	14:00
cis-1,2-Dichloroethene	< 0.00070	mg/l	6921	12/23/01	17:59
trans-1,2-Dichloroethene	< 0.00080	mg/l	1735	12/21/01	14:00
trans-1,2-Dichloroethene	< 0.00080	mg/l	6921	12/23/01	17:59
1,2-Dichloropropane	< 0.00060	mg/l	1735	12/21/01	14:00
1,3-Dichloropropane	< 0.00060	mg/l	1735	12/21/01	14:00

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 8

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2,2-Dichloropropane	< 0.00090	mg/l	1735	12/21/01	14:00
1,1-Dichloropropene	< 0.00070	mg/l	1735	12/21/01	14:00
cis-1,3-Dichloropropene	< 0.00070	mg/l	1735	12/21/01	14:00
trans-1,3-Dichloropropene	< 0.00050	mg/l	1735	12/21/01	14:00
Ethylbenzene	< 0.00070	mg/l	1735	12/21/01	14:00
Hexachlorobutadiene	< 0.00080	mg/l	1735	12/21/01	14:00
2-Hexanone	< 0.00280	mg/l	1735	12/21/01	14:00
Isopropylbenzene	< 0.00080	mg/l	1735	12/21/01	14:00
4-Isopropyltoluene	< 0.00080	mg/l	1735	12/21/01	14:00
4-Methyl-2-pentanone	< 0.00460	mg/l	1735	12/21/01	14:00
Methylene chloride	< 0.00150	mg/l	1735	12/21/01	14:00
Naphthalene	< 0.00190	mg/l	1735	12/21/01	14:00
n-Propylbenzene	< 0.00080	mg/l	1735	12/21/01	14:00
Styrene	< 0.00090	mg/l	1735	12/21/01	14:00
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	1735	12/21/01	14:00
1,1,2,2-Tetrachloroethane	< 0.00050	mg/l	1735	12/21/01	14:00
Tetrachloroethene	< 0.00080	mg/l	1735	12/21/01	14:00
Toluene	< 0.00070	mg/l	1735	12/21/01	14:00
1,2,3-Trichlorobenzene	< 0.00060	mg/l	1735	12/21/01	14:00
1,2,4-Trichlorobenzene	< 0.00160	mg/l	1735	12/21/01	14:00
1,1,1-Trichloroethane	< 0.00070	mg/l	1735	12/21/01	14:00
1,1,2-Trichloroethane	< 0.00050	mg/l	1735	12/21/01	14:00
Trichloroethene	< 0.00090	mg/l	1735	12/21/01	14:00
Trichloroethene	< 0.00090	mg/l	6921	12/23/01	17:59
1,2,3-Trichloropropane	< 0.00040	mg/l	1735	12/21/01	14:00
1,2,4-Trimethylbenzene	< 0.00060	mg/l	1735	12/21/01	14:00
1,3,5-Trimethylbenzene	< 0.00080	mg/l	1735	12/21/01	14:00
Vinyl chloride	< 0.00050	mg/l	1735	12/21/01	14:00
Xylenes, Total	< 0.00090	mg/l	1735	12/21/01	14:00
Bromodichloromethane	< 0.00080	mg/l	1735	12/21/01	14:00
112-Trichl-122-tri-F-eth	< 0.0050	mg/l	6977	12/21/01	14:00
Trichlorofluoromethane	< 0.00070	mg/l	1735	12/21/01	14:00

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
Page: 9

VOA Surr 1,2-DCA-d4	108.	% Rec	1735	12/21/01	14:00
VOA Surr 1,2-DCA-d4	108.	% Rec	6921	12/23/01	17:59
VOA Surr Toluene-d8	109.	% Rec	1735	12/21/01	14:00
VOA Surr Toluene-d8	108.	% Rec	6921	12/23/01	17:59
VOA Surr, 4-BFB	93.	% Rec	1735	12/21/01	14:00
VOA Surr, 4-BFB	91.	% Rec	6921	12/23/01	17:59
VOA Surr, DBFM	109.	% Rec	1735	12/21/01	14:00
VOA Surr, DBFM	108.	% Rec	6921	12/23/01	17:59

Blank Data

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

MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	1795	12/18/01	17:43
Sulfate	< 1.00	mg/l	3066	12/19/01	22:24
Total Organic Carbon	< 1.00	mg/l	2099	12/19/01	17:39
Sulfide	< 0.100	mg/l	2269	12/19/01	9:30
Chloride	< 1.00	mg/l	3476	12/21/01	0:34

Blank Data

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

MISC PARAMETERS					
Methane	< 0.026	mg/L	2561	12/19/01	15:22
Ethene	< 0.026	mg/L	2561	12/19/01	15:22
Ethane	< 0.026	mg/L	2561	12/19/01	15:22

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 264906

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 Harding ESE Client #: 9176

Address: 1400 Centerpoint Blvd. Suite 158

City/State/Zip Code: Knoxville, TN 37932

Project Manager: Rick Ryan

Telephone Number: (865) 531-1922 Fax: (865) 531-8226

Sampler Name: (Print Name) Rob Ellis

Sampler Signature: W. H. J. A.

Project Name: Former Taylor Instruments

Project #: 57870.4

Site/Location ID: Rochester State: NY

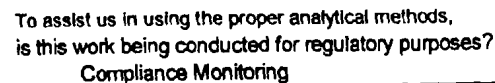
Report To: Rick Ryan / Rob Ellis

Invoice To: Rick Ryan

Quote #: PO#: 9755

TAT ☒ Standard ☐ Rush (surcharges may apply)	Date Needed:	Fax Results:	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Solid/Solid WW - Wastewater Specify Other	Preservation & # of Containers	Analyze For:	QC Deliverables	REMARKS													
		(Y) N						HNO ₃ HCl NaOH + Zinc Acetate H ₂ SO ₄ Methanol None Other (Specify)		VOL - BTEX + PAHs Nitrate / Ammonia Sulfate / Chloride Sulfide Methane / Ethane / Ethene TOC Iron (II) Carbon Dioxide	☐ None ☒ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other:														
			BR-16	12/14/01	0919	G		GW	3																
			BR-12	12/14/01	1018	G		GW	3																
			BR-13	12/16/01	1120	G		GW	3																
			BR-15	12/16/01	1359	G		GW	3																
			BR-10	12/16/01	1513	G		GW	3																
			OB-07	12/17/01	1014	G		GW	9	1	4	3	1	1	1	3	2	1	2		33				
			OB-07 (MS)	12/17/01	1017	G		GW	3			3									33	Matrix Spike			
			OB-07 (MSD)	12/17/01	1017	G		GW	3			3									33	Matrix Spike Duplicate			
			N-5	12/17/01	1313	G		GW	9	1	4	3	1	1	1	3	2	1	2		34				
			N-5 (DUP)	12/17/01	1313	G		GW	3			3									183635	Duplicate			
Special Instructions: lowest possible detection limits												LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp:													
Relinquished By: [Signature]				Date: 12/17/01		Time: 1700		Received By:				Date:		Time:		Custody Seals: Y N N/A									
Relinquished By:				Date:		Time:		Received By:				Date:		Time:		Bottles Supplied by TestAmerica: Y N									
Relinquished By:				Date:		Time:		Received By: [Signature]				Date: 12-18-01		Time: 0900		Method of Shipment: Fax COG to									

Fax COC to
Knoxville Office
4 (865) 593-1723



Quote #: _____ PO#: 9755

Knoxville Office
Tel. 4 (866) 593-4723

December 18, 2001
Analytical Data

TestAmerica

INCORPORATED

12/27/01

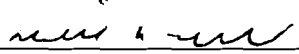
HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD,STE.158
KNOXVILLE, TN 37932-1968

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 51870.4 FORMER TAYLOR INSTRUMENT.

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

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
BR-05	01-A184967	12/18/01
BR-09	01-A184968	12/18/01
OB-08	01-A184969	12/18/01
BR-11	01-A184970	12/18/01

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: 

Report Date: 12/27/01

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

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

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A184967
Sample ID: BR-05
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/18/01
Time Collected: 8:44
Date Received: 12/19/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.250	0.0500	5	12/26/01	14:27	K.Hill	8260B	3680
Benzene	0.0125	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Bromobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Bromochloromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Bromoform	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Bromomethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
2-Butanone	ND	mg/l	0.250	0.0500	5	12/26/01	14:27	K.Hill	8260B	3680
n-Butylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
sec-Butylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
t-Butylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Carbon disulfide	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Carbon tetrachloride	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Chlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Chloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Chloroform	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Chloromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
2-Chlorotoluene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
4-Chlorotoluene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0500	0.0100	5	12/26/01	14:27	K.Hill	8260B	3680
Dibromochloromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2-Dibromoethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Dibromomethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2-Dichlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,3-Dichlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,4-Dichlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Dichlorodifluoromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184967
Sample ID: BR-05
Project: 51870.4
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2-Dichloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1-Dichloroethene	0.0415	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
cis-1,2-Dichloroethene	2.48	mg/l	0.100	0.0020	50	12/26/01	23:23	K.Hill	8260B	7015
trans-1,2-Dichloroethene	0.154	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2-Dichloropropane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,3-Dichloropropane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
2,2-Dichloropropane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1-Dichloropropene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
cis-1,3-Dichloropropene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
trans-1,3-Dichloropropene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Ethylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Hexachlorobutadiene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
2-Hexanone	ND	mg/l	0.0500	0.0100	5	12/26/01	14:27	K.Hill	8260B	3680
Isopropylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
4-Isopropyltoluene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
4-Methyl-2-pentanone	ND	mg/l	0.0500	0.0100	5	12/26/01	14:27	K.Hill	8260B	3680
Methylene chloride	ND	mg/l	0.0250	0.0050	5	12/26/01	14:27	K.Hill	8260B	3680
Naphthalene	ND	mg/l	0.0250	0.0050	5	12/26/01	14:27	K.Hill	8260B	3680
n-Propylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Styrene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Tetrachloroethene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Toluene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2,3-Trichlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2,4-Trichlorobenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1,1-Trichloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,1,2-Trichloroethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Trichloroethene	3.42	mg/l	0.100	0.0020	50	12/26/01	23:23	K.Hill	8260B	7015
1,2,3-Trichloropropane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,2,4-Trimethylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
1,3,5-Trimethylbenzene	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Vinyl chloride	0.290	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Xylenes, Total	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680
Bromodichloromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184967
 Sample ID: BR-05
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0250	0.0020	5	12/26/01	14:27	K.Hill	8260B	3684
Trichlorofluoromethane	ND	mg/l	0.0100	0.0020	5	12/26/01	14:27	K.Hill	8260B	3680

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	115.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	99.	72. - 136.
VOA Surr, DBFM	115.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE.158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A184968
Sample ID: BR-09
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/18/01
Time Collected: 9:57
Date Received: 12/19/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/22/01	7:14	K.Hill	8260B	3680
Benzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Bromoform	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/22/01	7:14	K.Hill	8260B	3680
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Chloroform	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/22/01	7:14	K.Hill	8260B	3680
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184968
 Sample ID: BR-09
 Project: 51870.4
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
cis-1,2-Dichloroethene	0.0600	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
trans-1,2-Dichloroethene	0.0029	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	7:14	K.Hill	8260B	3680
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	7:14	K.Hill	8260B	3680
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/22/01	7:14	K.Hill	8260B	3680
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/22/01	7:14	K.Hill	8260B	3680
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Styrene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Toluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Trichloroethene	6.00	mg/l	0.100	0.0020	50	12/26/01	23:59	K.Hill	8260B	7015
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184968
 Sample ID: BR-09
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	7:14	K.Hill	8260B	3684
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:14	K.Hill	8260B	3680

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	113.	60. - 158.
VOA Surr Toluene-d8	110.	82. - 127.
VOA Surr, 4-BFB	98.	72. - 136.
VOA Surr, DBFM	114.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.



ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A184969
Sample ID: OB-08
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/18/01
Time Collected: 11:27
Date Received: 12/19/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/22/01	7:50	K.Hill	8260B	3680
Benzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Bromoform	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/22/01	7:50	K.Hill	8260B	3680
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Chloroform	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/22/01	7:50	K.Hill	8260B	3680
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184969

Sample ID: OB-08

Project: 51870.4

Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
cis-1,2-Dichloroethene	0.0093	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	7:50	K.Hill	8260B	3680
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	7:50	K.Hill	8260B	3680
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/22/01	7:50	K.Hill	8260B	3680
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/22/01	7:50	K.Hill	8260B	3680
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Styrene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Toluene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Trichloroethene	0.500	mg/l	0.100	0.0020	50	12/24/01	9:50	K.Hill	8260B	7015
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184969
 Sample ID: OB-08
 Project: 51870.4
 Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	7:50	K.Hill	8260B	3684
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	7:50	K.Hill	8260B	3680

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	60. - 158.
VOA Surr Toluene-d8	109.	82. - 127.
VOA Surr, 4-BFB	95.	72. - 136.
VOA Surr, DBFM	110.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

HARDING ESE 4997
BARBARA SPARKS
1400 CENTERPOINT BLVD, STE. 158
KNOXVILLE, TN 37932-1968

Lab Number: 01-A184970
Sample ID: BR-11
Sample Type: Ground water
Site ID:

Project: 51870.4
Project Name: FORMER TAYLOR INSTRUMENT
Sampler: ROB ELLIS

Date Collected: 12/18/01
Time Collected: 14:26
Date Received: 12/19/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	12/22/01	8:26	K.Hill	8260B	3680
Benzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Bromobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Bromoform	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Bromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
2-Butanone	ND	mg/l	0.0500	0.0500	1	12/22/01	8:26	K.Hill	8260B	3680
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Chloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Chloroform	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Chloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	12/22/01	8:26	K.Hill	8260B	3680
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Dibromomethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184970
Sample ID: BR-11
Project: 51870.4
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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1-Dichloroethene	0.0020	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
cis-1,2-Dichloroethene	0.339	mg/l	0.0200	0.0020	10	12/24/01	10:25	K.Hill	8260B	7015
trans-1,2-Dichloroethene	0.108	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
2-Hexanone	ND	mg/l	0.0100	0.0100	1	12/22/01	8:26	K.Hill	8260B	3680
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	12/22/01	8:26	K.Hill	8260B	3680
Methylene chloride	ND	mg/l	0.0050	0.0050	1	12/22/01	8:26	K.Hill	8260B	3680
Naphthalene	ND	mg/l	0.0050	0.0050	1	12/22/01	8:26	K.Hill	8260B	3680
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Styrene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Toluene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Trichloroethene	0.140	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Vinyl chloride	0.0354	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A184970
 Sample ID: BR-11
 Project: 51870.4
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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
112-Trichl-122-tri-F-eth	ND	mg/l	0.0050	0.0020	1	12/22/01	8:26	K.Hill	8260B	3684
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	12/22/01	8:26	K.Hill	8260B	3680

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	105.	60. - 158.
VOA Surr Toluene-d8	108.	82. - 127.
VOA Surr, 4-BFB	97.	72. - 136.
VOA Surr, DBFM	108.	81. - 137.

LABORATORY COMMENTS:

ND - Not detected at the report limit.

- Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number: 51870.4

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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.00200	0.05480	0.05000	110	70. - 136.	3680	01-A185259
Toluene	mg/l	< 0.00200	0.05360	0.05000	107	69. - 137.	3680	01-A185259

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.05480	0.05520	0.73	21.	3680
Chlorobenzene	mg/l	0.04980	0.05040	1.20	25.	3680
1,1-Dichloroethene	mg/l	0.06030	0.06000	0.50	26.	3680
Toluene	mg/l	0.05360	0.05350	0.19	22.	3680
Trichloroethene	mg/l	0.05600	0.05580	0.36	28.	3680
Tetrachloroethene	mg/l	0.05860	0.05830	0.51	24.	3680

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Acetone	mg/l	0.2500	0.2530	101	54 - 153	3680
Benzene	mg/l	0.05000	0.05240	105	79 - 124	3680
Bromobenzene	mg/l	0.05000	0.04820	96	76 - 122	3680
Bromochloromethane	mg/l	0.05000	0.05140	103	71 - 134	3680
Bromoform	mg/l	0.05000	0.04270	85	66 - 124	3680
Bromomethane	mg/l	0.05000	0.05160	103	51 - 145	3680
2-Butanone	mg/l	0.2500	0.2300	92	62 - 134	3680

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
n-Butylbenzene	mg/l	0.05000	0.04770	95	61 - 136	3680
sec-Butylbenzene	mg/l	0.05000	0.04840	97	69 - 130	3680
t-Butylbenzene	mg/l	0.05000	0.04940	99	66 - 129	3680
Carbon disulfide	mg/l	0.05000	0.04710	94	71 - 129	3680
Carbon tetrachloride	mg/l	0.05000	0.04910	98	70 - 130	3680
Chlorobenzene	mg/l	0.05000	0.05020	100	80 - 118	3680
Chloroethane	mg/l	0.05000	0.05370	107	59 - 144	3680
Chloroform	mg/l	0.05000	0.04800	96	74 - 123	3680
Chloromethane	mg/l	0.05000	0.06410	128	47 - 155	3680
2-Chlorotoluene	mg/l	0.05000	0.04880	98	74 - 126	3680
4-Chlorotoluene	mg/l	0.05000	0.04930	99	75 - 125	3680
1,2-Dibromo-3-chloropropane	mg/l	0.05000	0.04840	97	58 - 133	3680
Dibromochloromethane	mg/l	0.05000	0.04800	96	73 - 125	3680
1,2-Dibromoethane	mg/l	0.05000	0.05570	111	74 - 125	3680
Dibromomethane	mg/l	0.05000	0.05120	102	71 - 130	3680
1,2-Dichlorobenzene	mg/l	0.05000	0.05060	101	76 - 122	3680
1,3-Dichlorobenzene	mg/l	0.05000	0.04940	99	75 - 122	3680
1,4-Dichlorobenzene	mg/l	0.05000	0.04880	98	76 - 119	3680
Dichlorodifluoromethane	mg/l	0.05000	0.05590	112	53 - 151	3680
1,1-Dichloroethane	mg/l	0.05000	0.05140	103	76 - 127	3680
1,2-Dichloroethane	mg/l	0.05000	0.04840	97	66 - 133	3680
1,1-Dichloroethene	mg/l	0.05000	0.05050	101	72 - 127	3680
cis-1,2-Dichloroethene	mg/l	0.05000	0.04990	100	74 - 127	3680
cis-1,2-Dichloroethene	mg/l	0.05000	0.05070	101	74 - 127	7015
trans-1,2-Dichloroethene	mg/l	0.05000	0.04900	98	70 - 132	3680
1,2-Dichloropropane	mg/l	0.05000	0.05390	108	76 - 124	3680
1,3-Dichloropropane	mg/l	0.05000	0.05500	110	72 - 129	3680
2,2-Dichloropropane	mg/l	0.05000	0.04860	97	33 - 152	3680
1,1-Dichloropropene	mg/l	0.05000	0.05430	109	73 - 127	3680
cis-1,3-Dichloropropene	mg/l	0.05000	0.05420	108	58 - 131	3680
trans-1,3-Dichloropropene	mg/l	0.05000	0.05530	111	53 - 133	3680
Ethylbenzene	mg/l	0.05000	0.05060	101	77 - 126	3680
Hexachlorobutadiene	mg/l	0.05000	0.04680	94	52 - 139	3680

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2-Hexanone	mg/l	0.2500	0.2310	92	61 - 136	3680
Isopropylbenzene	mg/l	0.05000	0.04900	98	74 - 127	3680
4-Isopropyltoluene	mg/l	0.05000	0.04810	96	69 - 113	3680
4-Methyl-2-pentanone	mg/l	0.2500	0.2600	104	63 - 135	3680
Methylene chloride	mg/l	0.05000	0.05230	105	70 - 130	3680
Naphthalene	mg/l	0.05000	0.05170	103	57 - 143	3680
n-Propylbenzene	mg/l	0.05000	0.06840	137 #	71 - 130	3680
Styrene	mg/l	0.05000	0.04820	96	77 - 122	3680
1,1,1,2-Tetrachloroethane	mg/l	0.05000	0.05450	109	71 - 130	3680
1,1,2,2-Tetrachloroethane	mg/l	0.05000	0.05280	106	57 - 136	3680
Tetrachloroethene	mg/l	0.05000	0.05120	102	72 - 126	3680
Toluene	mg/l	0.05000	0.04950	99	78 - 124	3680
1,2,3-Trichlorobenzene	mg/l	0.05000	0.04910	98	58 - 139	3680
1,2,4-Trichlorobenzene	mg/l	0.05000	0.05020	100	60 - 132	3680
1,1,1-Trichloroethane	mg/l	0.05000	0.04820	96	70 - 130	3680
1,1,2-Trichloroethane	mg/l	0.05000	0.05190	104	75 - 124	3680
Trichloroethene	mg/l	0.05000	0.05160	103	70 - 136	3680
Trichloroethene	mg/l	0.05000	0.04810	96	70 - 136	7015
1,2,3-Trichloropropane	mg/l	0.05000	0.04940	99	63 - 132	3680
1,2,4-Trimethylbenzene	mg/l	0.05000	0.05020	100	73 - 127	3680
1,3,5-Trimethylbenzene	mg/l	0.05000	0.04950	99	72 - 128	3680
Vinyl chloride	mg/l	0.05000	0.05800	116	62 - 144	3680
Xylenes, Total	mg/l	0.1500	0.1512	101	76 - 127	3680
Bromodichloromethane	mg/l	0.05000	0.04970	99	69 - 130	3680
Trichlorofluoromethane	mg/l	0.05000	0.05250	105	64 - 136	3680
VOA Surr 1,2-DCA-d4	% Rec			112	60 - 158	7015
VOA Surr Toluene-d8	% Rec			111	82 - 127	7015
VOA Surr, 4-BFB	% Rec			103	72 - 136	7015
VOA Surr, DBFM	% Rec			113	81 - 137	7015

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
VOA PARAMETERS					
Acetone	< 0.00840	mg/l	3680	12/22/01	1:54
Benzene	< 0.00070	mg/l	3680	12/22/01	1:54
Bromobenzene	< 0.00070	mg/l	3680	12/22/01	1:54
Bromochloromethane	< 0.00060	mg/l	3680	12/22/01	1:54
Bromoform	< 0.00070	mg/l	3680	12/22/01	1:54
Bromomethane	< 0.00080	mg/l	3680	12/22/01	1:54
2-Butanone	< 0.00390	mg/l	3680	12/22/01	1:54
n-Butylbenzene	< 0.00070	mg/l	3680	12/22/01	1:54
sec-Butylbenzene	< 0.00080	mg/l	3680	12/22/01	1:54
t-Butylbenzene	< 0.00090	mg/l	3680	12/22/01	1:54
Carbon disulfide	< 0.00080	mg/l	3680	12/22/01	1:54
Carbon tetrachloride	< 0.00070	mg/l	3680	12/22/01	1:54
Chlorobenzene	< 0.00070	mg/l	3680	12/22/01	1:54
Chloroethane	< 0.00090	mg/l	3680	12/22/01	1:54
Chloroform	< 0.00060	mg/l	3680	12/22/01	1:54
Chloromethane	< 0.00050	mg/l	3680	12/22/01	1:54
2-Chlorotoluene	< 0.00070	mg/l	3680	12/22/01	1:54
4-Chlorotoluene	< 0.00060	mg/l	3680	12/22/01	1:54
1,2-Dibromo-3-chloropropane	< 0.00310	mg/l	3680	12/22/01	1:54
Dibromochloromethane	< 0.00040	mg/l	3680	12/22/01	1:54
1,2-Dibromoethane	< 0.00050	mg/l	3680	12/22/01	1:54
Dibromomethane	< 0.00040	mg/l	3680	12/22/01	1:54
1,2-Dichlorobenzene	< 0.00050	mg/l	3680	12/22/01	1:54
1,3-Dichlorobenzene	< 0.00060	mg/l	3680	12/22/01	1:54
1,4-Dichlorobenzene	< 0.00050	mg/l	3680	12/22/01	1:54
Dichlorodifluoromethane	< 0.00040	mg/l	3680	12/22/01	1:54
1,1-Dichloroethane	< 0.00080	mg/l	3680	12/22/01	1:54
1,2-Dichloroethane	< 0.00090	mg/l	3680	12/22/01	1:54
1,1-Dichloroethene	< 0.00080	mg/l	3680	12/22/01	1:54
cis-1,2-Dichloroethene	< 0.00070	mg/l	3680	12/22/01	1:54
cis-1,2-Dichloroethene	< 0.00070	mg/l	7015	12/26/01	10:09

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 51870.4
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
trans-1,2-Dichloroethene	< 0.00080	mg/l	3680	12/22/01	1:54
1,2-Dichloropropane	< 0.00060	mg/l	3680	12/22/01	1:54
1,3-Dichloropropane	< 0.00060	mg/l	3680	12/22/01	1:54
2,2-Dichloropropane	< 0.00090	mg/l	3680	12/22/01	1:54
1,1-Dichloropropene	< 0.00070	mg/l	3680	12/22/01	1:54
cis-1,3-Dichloropropene	< 0.00070	mg/l	3680	12/22/01	1:54
trans-1,3-Dichloropropene	< 0.00050	mg/l	3680	12/22/01	1:54
Ethylbenzene	< 0.00070	mg/l	3680	12/22/01	1:54
Hexachlorobutadiene	< 0.00080	mg/l	3680	12/22/01	1:54
2-Hexanone	< 0.00280	mg/l	3680	12/22/01	1:54
Isopropylbenzene	< 0.00080	mg/l	3680	12/22/01	1:54
4-Isopropyltoluene	< 0.00080	mg/l	3680	12/22/01	1:54
4-Methyl-2-pentanone	< 0.00460	mg/l	3680	12/22/01	1:54
Methylene chloride	< 0.00150	mg/l	3680	12/22/01	1:54
Naphthalene	< 0.00190	mg/l	3680	12/22/01	1:54
n-Propylbenzene	< 0.00080	mg/l	3680	12/22/01	1:54
Styrene	< 0.00090	mg/l	3680	12/22/01	1:54
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	3680	12/22/01	1:54
1,1,2,2-Tetrachloroethane	< 0.00050	mg/l	3680	12/22/01	1:54
Tetrachloroethene	< 0.00080	mg/l	3680	12/22/01	1:54
Toluene	< 0.00070	mg/l	3680	12/22/01	1:54
1,2,3-Trichlorobenzene	< 0.00060	mg/l	3680	12/22/01	1:54
1,2,4-Trichlorobenzene	< 0.00160	mg/l	3680	12/22/01	1:54
1,1,1-Trichloroethane	< 0.00070	mg/l	3680	12/22/01	1:54
1,1,2-Trichloroethane	< 0.00050	mg/l	3680	12/22/01	1:54
Trichloroethene	< 0.00090	mg/l	3680	12/22/01	1:54
Trichloroethene	< 0.00090	mg/l	7015	12/26/01	10:09
1,2,3-Trichloropropane	< 0.00040	mg/l	3680	12/22/01	1:54
1,2,4-Trimethylbenzene	< 0.00060	mg/l	3680	12/22/01	1:54
1,3,5-Trimethylbenzene	< 0.00080	mg/l	3680	12/22/01	1:54
Vinyl chloride	< 0.00050	mg/l	3680	12/22/01	1:54
Xylenes, Total	< 0.00090	mg/l	3680	12/22/01	1:54
Bromodichloromethane	< 0.00080	mg/l	3680	12/22/01	1:54

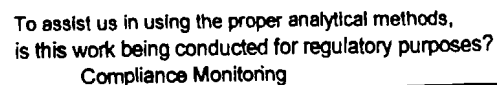
Project QC continued . . .

PROJECT QUALITY CONTROL DATA
 Project Number: 51870.4
 Page: 6

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----
112-Trichl-122-tri-F-eth	< 0.0050	mg/l	3684	12/22/01	1:54
Trichlorofluoromethane	< 0.00070	mg/l	3680	12/22/01	1:54
VOA Surr 1,2-DCA-d4	106.	% Rec	7015	12/26/01	10:09
VOA Surr Toluene-d8	111.	% Rec	7015	12/26/01	10:09
VOA Surr, 4-BFB	104.	% Rec	7015	12/26/01	10:09
VOA Surr, DBFM	107.	% Rec	7015	12/26/01	10:09
# - Value outside Laboratory historical or method prescribed QC limits.					

End of Report for Project 265223



Sampler Signature: [Signature]

Quote #: PO#: 9755

TAT ☒ Standard ____ Rush (surcharges may apply)	Date Needed:	Fax Results:	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Solid/Solid WW - Wastewater Specify Other	Preservation & # of Containers	Analyze For:	QC Deliverables None ☒ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____	REMARKS
		☒ Y ☐ N						HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)				
			BR-05	12/19/01	0814	G		GW	3			18967
			BR-09	12/19/01	0957	G		GW	3			189
			OB-08	12/19/01	1127	G		GW	3			189
			BR-11	12/19/01	1426	G		GW	3			189970
Special Instructions: lowest possible detection limits												
LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: 2.0												
Relinquished By: [Signature]	Date: 12/18/01	Time: 1530	Received By: M. Berly	Date: 12/19/01	Time: 4:00	Custody Seals: Y N N/A	Bottles Supplied by TestAmerica: Y N	Fax COC to	Method of Shipment: [Blank]	Office		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							

Page # (865) 693-4723

APPENDIX C

CHAIN-OF-CUSTODY FORMS

264454

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

Client Name Harding ESE Client #: 4997

Address: 1400 Centerpoint Blvd. Suite 158

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: (865) 531-1922 Fax: (865) 531-8226

Sampler Name: (Print Name) Rob. Ellis

Sampler Signature: 

Project Name: Former Taylor Instruments

Project #: 57870.4

Site/Location ID: Rochester State: NY

Report To: Rick Ryan / Rob Ellis

Invoice To: Rick Ryan

Quote #: PO#: 9755

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:	QC Deliverables None ☒ Level 2 (Batch QC) ____ Level 3 ____ Level 4 Other: _____
								HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)		VOL - 9260 + Freeon 113 Chloride Alkalinity CO ₂	REMARKS
			QATBØ1 181430	12/11/01	0000			GW	1		Trip Blank
			QAFBØ1 31	12/11/01	1440	G		GW	3		Field Blank
			QARBØ1 32	12/11/01	1448	G		GW	3		Rinsate
			W-2 33	12/11/01	1626	G		GW	4	1 1 2	
			BR-Ø6 181434	12/12/01	0902	G		GW	3		
			BR-Ø6 (MS) I	12/12/01	0903	G		GW	3		Matrix Spike
			BR-Ø6 (MSD) I	12/12/01	0903	G		GW	3		Matrix Spike Dup
			BR-Ø7 181435	12/12/01	1123	G		GW	3		
			BR-Ø7 (DUP) 36	12/12/01	1123	G		GW	3		Duplicate
			W-6 181437	12/12/01	1504	G		GW	3		

Special instructions:

lowest possible detection limits

LABORATORY COMMENTS:**Ink Lab Temp:**

Rec Lab Temp: 7.0

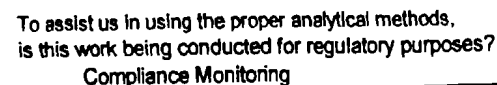
Custody Seals:	Y	N	N/A
-----------------------	----------	----------	------------

Bottles Supplied by TestAmerica: Y N

Method of Shipment: Fax COC to

Knoxville Office

Fax # (866) 800-1700



Sampler Signature: Walt J. Smith

Quote #: PO#: 9755

[illegible]

Knoxville Office

TestAmerica

INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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: Harding ESE Client #: 9176

Address: 1400 Centpoint Blvd. Suite 158

City/State/Zip Code: Knoxville, TN 37932

Project Manager: Rick Ryan

Telephone Number: (865) 531-1922 Fax: (865) 531-8226

Sampler Name: (Print Name) Rob Ellis

Sampler Signature: [Signature]

Project Name: Former Taylor Instruments

Project #: 51870.4

Site/Location ID: Rochester State: NY

Report To: Rick Ryan / Rob Ellis

Invoice To: Rick Ryan

Quote #: _____ PO#: 9753

264424						Matrix		Preservation & # of Containers		Analyze For:												QC Deliverables																			
TAT ☒ Standard Rush (surcharges may apply)						SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other																None ☒ Level 2 (Batch QC) Level 3 Level 4 Other: _____																			
Date Needed: _____																																									
Fax Results: <u>(N)</u> N																																									
SAMPLE ID		Date Sampled		Time Sampled		G = Grab, C = Composite		Field Filtered		HNO ₃		HCl		NaOH + Zinc Acetate		H ₂ SO ₄		Methanol		None		Other (Specify)		VOC-8260 + Triom 113		Nitrate / Alkalinity		Sulfate / Chloride		Sulfide		Methane / Ethane / Ethene		TDC		Iron (II)		Carbon Dioxide		REMARKS	
BR-14		12/14/01		0912		G				GW		3												3														183 684			
BR-01		12/14/01		1058		G				GW		3												3														85			
TW-17		12/14/01		1212		G				GW		9		1				4				3		1		1		1		3		2		1		2		86			
TW-20		12/14/01		1550		G				GW		9		1				4				3		1		1		1		3		2		1		2		87			
TW-07		12/15/01		0926		G				GW		9		1				4				3		1		1		1		3		2		1		2		88			
TW-09		12/15/01		1125		G				GW		9		1				4				3		1		1		1		3		2		1		2		89			
BR-02		12/15/01		1252		G				GW		3										3																90			
OB-09		12/15/01		1549		G				GW		9		1				4				3		1		1		1		3		2		1		2		91			
QATB02		12/15/01		0000								1										1																92 Trip Blank			
QAFB02		12/15/01		1633		G				GW		3										3																183 643 Field Blank			

Special Instructions:

lowest possible detection limits

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

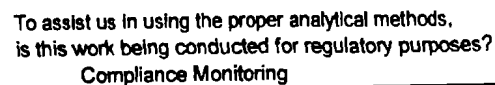
Custody Seals: Y N N/A

Bottles Supplied by TestAmerica: Y N

Method of Shipment: Fax COC to

Knoxville Office
Fax # (865) 693-4723

Relinquished By: <u>[Signature]</u>	Date: <u>12/17/01</u>	Time: <u>1700</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>12/18/01</u>	Time: <u>0900</u>



Sampler Signature: W. A. D. SA

Quote #: PO#: 9755

Knoxville Office
Fax # (865) 693-4723

SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica

Nashville Division

ACCT NO. 7 4997

DATE RECEIVED 12-18-01

COMPANY Handling ESE

(264424)
(264906)

Relinquished by:	Date/Time:	Received by:	Date/Time
<u>(w) 12-18-01</u>		<u>[Signature]</u>	<u>12-18/12:54p</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
<u>[Signature]</u>	<u>12-18/4:38p</u>	<u>(w) 12-18-01</u>	<u>16:38</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

PROBLEM(S):

FOC/TOC?

METALS LIST?

TPH METHOD?

TCLP WHAT?

EDB METHOD?

HERB LIST- LONG OR SHORT?

NEED LIST OF COMPOUNDS:

8260 INSTEAD OF 8021?

TEMPERATURE UPON RECEIPT

SATURDAY DELIVERY MARKED?

ICE -- OR-- NO ICE??

FIELD TEST-- OUT OF HOLD

NO COC - PLEASE FAX

NO ANALYSIS REQUESTED

DOCUMENTATION LEVEL?

OUT OF HOLDING TIME-- TEST

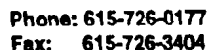
OTHER: ^① Acct # ^② 183686-89 + 183686 (no nitrate)

RESOLUTION:

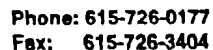
Run samples per Rob Ellis.

CONTACTED	DATE/TIME	EMAIL	LEFT MESSAGE

Revised 8/9/00



Knoxville Office
4 (865) 593-4723



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

Sampler Signature: W. A. G. SA

Quote #: PO#: 9755

Special Instructions:						LABORATORY COMMENTS:	
lowest possible detection limits						Init Lab Temp:	
						Rec Lab Temp:	
Relinquished By: <i>Paul A. EA</i>	Date: 12/17/01	Time: 1700	Received By:	Date:	Time:	Custody Seals: Y N N/A	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Bottles Supplied by TestAmerica: Y N	
Relinquished By:	Date:	Time:	Received By: <i>(Signature)</i>	Date: 12-18-01	Time: 0900	Method of Shipment: Fax COC to	

Knoxville Office
Tel. # (866) 593-4723

SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica

Nashville Division

ACCT NO. 7 4997

COMPANY Handling ESE

DATE RECEIVED 12-18-01

(264924)
(264906)

Relinquished by:	Date/Time:	Received by:	Date/Time
<u>(u) 12-18-01</u>		<u>[Signature]</u>	<u>12-18/12:54p</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
<u>[Signature]</u>	<u>12-18/4:38p</u>	<u>(u) 12-18-01</u>	<u>16:58</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

PROBLEM(S):

FOC/TOC?

METALS LIST?

TPH METHOD?

TCLP WHAT?

EDB METHOD?

HERB LIST- LONG OR SHORT?

NEED LIST OF COMPOUNDS:

8260 INSTEAD OF 8021?

TEMPERATURE UPON RECEIPT

SATURDAY DELIVERY MARKED?

ICE -- OR-- NO ICE??

FIELD TEST-- OUT OF HOLD

NO COC - PLEASE FAX

NO ANALYSIS REQUESTED

DOCUMENTATION LEVEL?

OUT OF HOLDING TIME-- TEST

OTHER: ① Acct # ② 183686-59 + 183696 (no nitrate)

RESOLUTION:

Run samples for Rob Ellis.

CONTACTED	DATE/TIME	EMAIL	LEFT MESSAGE

Revised 8/9/00

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

Client Name Hudling ESE Client #: 4007

Address: 1400 Centerpoint Blvd. Suite 158

City/State/Zip Code: Knoxville TN 37932

Project Manager: Rick Ryan

Telephone Number: (865) 531-1922 Fax: (865) 531-8226

Sampler Name: (Print Name) Rob Ellis

Sampler Signature:

Project Name: Former Taylor Instruments

Project #: 51870.4

Site/Location ID: Rochester State: NY

Report To: Rob Ryan / Rob Ellis

Invoice To: Rick Ryan

Quote #: PO#: 9755

[illegible]

Fax # (865) 693-4123

APPENDIX D

FIELD DATA RECORDS

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/15/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 51870.4

MEASUREMENT POINT

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

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

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

SCREEN LENGTH FT

PID WELL	
MOUTH	PPM

WELL		YES	NO	N/A
INTEGRITY:	CAP			

DRAWDOWN VOLUME		GAL
--------------------	--	-----

PRODUCT THICKNESS FT

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

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

BEGIN PURGING

END
PURGING

TOTAL VOL. PURGED		GAL
----------------------	--	-----

(purge rate (L/min) x duration (min) x 0.26 g/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

SIGNATURE:

NOTES

Add QATB #2 to CDC.
Time labeled 00:00

[Handwritten signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

12/14/01

WELL

57870.4

MEASUREMENT POINT

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

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

WELL	YES	NO	N/A
INTEGRITY: CAP			

CASING	---	---	---
LOCKED	---	---	---
COLLAR	---	---	---

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

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

1440 - Collect Field Blank (QA FB #1)

SIGNATURE:

70A L. H.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

Former Taylor Instruments 4Q

12/11/01

QARBOI

WELL

START 1446 END 1454

51870.4

FT

FT

PID
AMBIENT AIR

WELL
DIAMETER

FT

SCREEN
LENGTH

FT

PID WELL
MOUTH

WELL
INTEGRITY: CAP

YES NO N/A

FT

DRAWDOWN
VOLUME

GAL

PRODUCT THICKNESS

LOCKED
COLLAR

1	2	3
4	5	6
7	8	9

((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**

END
PURGING

TOTAL VOL.
PURGED

GAL

(purge rate (L/min) x duration (min) x 0.28 gal/L)

[illegible]

☐ TEFLON
☐ OTHER _____

NOTES

1448 - Collect Rinseate off rebar
QARBØ1

SIGNATURE:

L. A. E.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/14/01

SITE TYPE	WELL
-----------	------

JOB NUMBER ~~121212~~ 51870.4

MEASUREMENT POINT

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

PROTECTIVE CASING STICKUP (FROM GROUND)	2.33 F
---	--------

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

INITIAL DEPTH TO WATER	21.66	FT
---------------------------	-------	----

WELL DEPTH 38 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	4	IN
------------------	---	----

FINAL DEPTH TO WATER	21.1	FT
-------------------------	------	----

SCREEN LENGTH	open boring	FT
---------------	-------------	----

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	~~X~~	—	—
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 0.078 L/MIN

BEGIN PURGING 1007

END
PURGING

TOTAL VOL. PURGED 60.86 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

1024 - DTW = 21.52'
1032 - DTW = 21.46'
1039 - DTW = 21.43'
1047 - DTW = 21.23'
1055 - DTW = 21.25'

SIGNATURE:

GW SAMPLE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/13/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 51870.4

MEASUREMENT POINT

	TOP OF WELL RISER
	TOP OF PROTECTIVE CASING
	OTHER

PROTECTIVE
CASING STICKUP
(FROM GROUND) 2.4 FT

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

INITIAL DEPTH TO WATER 15.91 14.91 FT

WELL DEPTH 42.0 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	4	IN
------------------	---	----

FINAL DEPTH TO WATER	15.65 FT
-------------------------	----------

SCREEN LENGTH open boring FT

PID WELL	PPM
MOUTH	

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

DRAWDOWN	0.74	FT
----------	------	----

DRAWDOWN VOLUME 0.12 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 0.086 L/MIN

BEGIN PURGING 1549

END
PURGING

TOTAL VOL. PURGED 0.98 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

1604 - DTW = 15.29'
1611 - DTW = 15.44'
1619 - DTW = 15.56'
1626 - DTW = 15.68'

SIGNATURE:

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments 4Q DATE 12/17/01

SITE ID BR-04 SITE TYPE WELL

SITE ACTIVITY START 1410 END 1520 JOB NUMBER 57870.4

WATER LEVEL / PUMP SETTINGS

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

PROTECTIVE CASING STICKUP (FROM GROUND) Flush FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 23.50 FT WELL DEPTH 44.2 FT PID AMBIENT AIR _____ PPM

FINAL DEPTH TO WATER 23.60 FT SCREEN LENGTH open boring FT PID WELL MOUTH _____ PPM

DRAWDOWN 0.10 FT DRAWDOWN VOLUME 0.065 GAL PRODUCT THICKNESS _____ FT

WELL DIAMETER 4 IN

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

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

PURGE RATE 0.067 L/MIN BEGIN PURGING 1410 1422 END PURGING 1515 TOTAL VOL. PURGED 0.92 GAL
 (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA		Dawson Dantrol									
Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O ₂ (mg/L)		TEMPERATURE (°C)	REDOX POTENTIAL (mV)	Comments		
1441	≈ 1.27	6.99	1.75	9.2	1.05	9.09	12.23	-125	≈ 67 m/min		
1450		6.99	1.77	6.7	0.87	9.01	12.34	-129			
1459	≈ 2.48	7.00	1.78	3.5	0.82	8.95	12.41	-132	≈ 67 m/min		
1508	≈ 3.08	7.01	1.80	2.8	0.78	8.93	12.24	-133	≈ 67 m/min		
1511	Collect sample BR-PH for 8260										

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/18/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

MEASUREMENT POINT

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

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

WELL DEPTH 49.9 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 4 IN

SCREEN LENGTH open boring FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	<u> </u>	<u> </u>

DRAWDOWN VOLUME 0.01 GAL

PRODUCT THICKNESS FT

LOCKED ☒ COLLAR ☒

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

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED	1.03 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**

SIGNATURE:

NOTES

0807 - DTW = 23.02'
0813 - DTW = 23.05'
0822 - DTW = 23.05'
0831 - DTW = 23.05'
0840 - DTW = 23.04'

Th. A. H.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/12/01

SITE TYPE WELL

JOB NUMBER 57870.4

MEASUREMENT POINT

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

PROTECTIVE CASING STICKUP (FROM GROUND)	2.4	F
---	-----	---

PROTECTIVE CASING / WELL DIFFERENCE		
	—	F

WELL DEPTH 54.69 FT

PID	
AMBIENT AIR	PPM

WELL DIAMETER 4 IN

SCREEN LENGTH open boring FT

PID WELL MOUTH	PPM
-------------------	-----

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

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}))

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 1.09 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Florida / River-bell

[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

1053 - DTW = 26.89'
1102 - DTW = 26.91'
1111 - DTW = 26.89'
1120 - DTW = 26.86'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/13/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

MEASUREMENT POINT

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

PROTECTIVE
CASING STICKUP
(FROM GROUND)

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

INITIAL DEPTH TO WATER	24.34	FT
---------------------------	-------	----

WELL DEPTH **73.0** FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER	4	IN
------------------	---	----

FINAL DEPTH TO WATER	25.57	FT
-------------------------	-------	----

SCREEN LENGTH	open boring	FT
---------------	-------------	----

PID WELL	
MOUTH	PPM

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

DRAWDOWN	1.23	FT
----------	------	----

DRAWDOWN VOLUME	0.80	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 0.066 L/MIN

BEGIN
PURGING

END
PURGING

1027

TOTAL VOL. PURGED 0.91 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

0949 - DTW = 25.92'
1000 - DTW = 25.02'
1010 - DTW = 25.32'
1020 - DTW = 25.50'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

Former Taylor Instruments 4Q

DATE 12/18/01

BE-11

SITE TYPE	WELL
-----------	------

START 1332 END 1436

JOB NUMBER	57870.4
------------	---------

MEASUREMENT POINT

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

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

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

23.35 FT

WELL DEPTH 52 FT

PIO	
AMBIENT AIR	PPM

WELL DIAMETER 6 IN

23.40 FT

SCREEN LENGTH	open boring	FT
------------------	-------------	----

PID WELL MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>		

0.05 FT

DRAWDOWN VOLUME	0.075	GAL
--------------------	-------	-----

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

LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

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

PURGE RATE 0.082 L/MIN

BEGIN
PURGING

1337

END
PURGING

1430

TOTAL VOL. PURGED 1.13 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

Herrn 1 Baum-Wall

[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

1352 - DTW = 23.35
1402 - DTW = 23.40
1410 - DTW = 23.45
1418 - DTW = 23.72

SIGNATURE:

[Handwritten signature]

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Pomer Taylor Instruments 4Q DATE 12/16/01
 SITE ID BR-12 SITE TYPE WELL
 SITE ACTIVITY START 0930 END 1026 JOB NUMBER 51870.4

WATER LEVEL / PUMP SETTINGS

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

PROTECTIVE CASING STICKUP (FROM GROUND) flush FT

PROTECTIVE CASING / WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 20.73 FT WELL DEPTH 42.0 FT PID AMBIENT AIR _____ PPM

FINAL DEPTH TO WATER 21.25 FT SCREEN LENGTH open baring FT PID WELL MOUTH _____ PPM

DRAWDOWN 0.52 FT DRAWDOWN VOLUME 0.78 GAL PRODUCT THICKNESS _____ FT

WELL DIAMETER 6 IN

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

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

PURGE RATE 0.071 L/MIN BEGIN PURGING 0934 END PURGING 1022 TOTAL VOL. PURGED 0.89 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
0952	≈ 1.03	8.27	0.752	25.0	0.78	11.79	-290	≈ 57 m/min
1000	≈ 1.60	8.25	0.750	24.7	0.62	11.88	-290	≈ 71 m/min
1007	≈ 2.15	8.27	0.757	25.3	0.58	11.56	-294	≈ 79 m/min
1015	≈ 2.77	8.29	0.752	21.5	0.54	11.90	-295	≈ 77 m/min
1018	Collected sample BR-12 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

0952 - DTW = 21.00'
 1000 - DTW = 21.03'
 1007 - DTW = 21.05'
 1015 - DTW = 21.19'

SIGNATURE: DA A. EA

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments 4Q

DATE 12/16/01

SITE ID BR-13

SITE TYPE WELL

SITE ACTIVITY START 1028 END 1126

JOB NUMBER 51870.4

WATER LEVEL / PUMP SETTINGS

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

PROTECTIVE CASING STICKUP (FROM GROUND) flush FT

PROTECTIVE CASING / WELL DIFFERENCE FT

INITIAL DEPTH TO WATER 24.35 FT

WELL DEPTH 67.5 FT

PID AMBIENT AIR PPM

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER 24.35 FT

SCREEN LENGTH open boring FT

PID WELL MOUTH PPM

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

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 0.071 L/MIN

BEGIN PURGING 1034

END PURGING 1122

TOTAL VOL. PURGED 0.89 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
1052	≈ 1.21	6.93	1.61	14.1	1.07	10.10	-134	≈ 67 m ³ /min
1100	≈ 1.78	6.93	1.62	8.9	0.80	10.09	-136	≈ 71 m ³ /min
1108	≈ 2.35	6.94	1.62	8.8	0.70	10.09	-138	≈ 71 m ³ /min
1116	≈ 2.95	6.95	1.61	7.7	0.66	11.05	-140	≈ 75 m ³ /min
1120	Collect sample BR-13 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

1053 - DTW = 24.32'
 1100 - DTW = 24.34'
 1108 - DTW = 24.35'
 1116 - DTW = 24.36'

SIGNATURE: AA de EHA

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/16/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

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

PROTECTIVE
CASING STICKUP
(FROM GROUND) Aush F

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

INITIAL DEPTH TO WATER	23.56	FT
---------------------------	-------	----

WELL DEPTH 72.0 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 6 IN

FINAL DEPTH TO WATER	23.92	FT
-------------------------	-------	----

SCREEN LENGTH open boring FT

PID WELL	
MOUTH	PPM

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

DRAWDOWN	0.36	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 0.065 L/MIN

BEGIN
PURGING

1308

END
PURGING

1402

TOTAL VOL. PURGED 0.91 GAL
(purge rate (L/min) x duration (min)) x 0.26 gal/L

PURGE DATA

Horizon	Down-hole
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☒ PERISTALTIC☐ TEFLON OR TEFLON LINED

☐ POLYVINYL CHLORIDE

TEFLON

☐ SUBMERSIBLE

☒ HIGH DENSITY POLYETHYLENE

☐ STAINLESS STEEL

☐ OTHER _____

☐ OTHER☐ OTHER☐ OTHER

PURGE OBSERVATIONS

► Water initially very black

NOTES

1330 - DTW = 23.71'
1338 - DTW = 23.81'
1346 - DTW = 23.85'
1352 - DTW = 23.89'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/17/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

MEASUREMENT POINT

PROTECTIVE
CASING STICKUP
(FROM GROUND) flush F

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

WELL DEPTH 17.5 FT

PID	
AMBIENT AIR	PPM

WELL DIAMETER 2 IN

SCREEN LENGTH 15 FT

PID WELL	
MOUTH	PPM

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

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

0802

END
PURGING

0832

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**

SIGNATURE:

NOTES

0824 - DTW = 16.06'
0830 - DTW = 16.35'

[Handwritten signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

Former Taylor Instruments 4Q

12/13/01

5787074 08-06

WELL

START 0755 END 0910

57870.4

MEASUREMENT POINT

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

PROTECTIVE
CASING STICKUP
(FROM GROUND) *flush* FT

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

13.30 FT

WELL DEPTH 16.32 FT

PID	PPM
AMBIENT AIR	

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

14.63 FT

SCREEN LENGTH 10 FT

PID WELL MOUTH	PPM

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

1.33 FT

DRAWDOWN VOLUME 0.21 GAL

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

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

0.068 L/MIN

0809
0804

0901

TOTAL VOL. PURGED 0.92 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

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

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

☐ TEFLON
☐ OTHER _____

NOTES

0825 - DTW = 13.88'
0834 - DTW = 14.00'
0846 - DTW = 14.32'
0855 - DTW = 14.35'

SIGNATURE:

Port. L. A.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/17/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

MEASUREMENT POINT

	TOP OF WELL RISER
	TOP OF PROTECTIVE CASING
	OTHER

PROTECTIVE
CASING STICKUP
(FROM GROUND) *flash* F

PROTECTIVE CASING / WELL DIFFERENCE	FT

INITIAL DEPTH TO WATER 10.15 FT

WELL DEPTH 20.03 FT

PID	
AMBIENT AIR	PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER	10.89	FT
-------------------------	-------	----

SCREEN LENGTH 10 FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	<u>X</u>	—	—
CASING	<u>X</u>	—	—
LOCKED	<u>X</u>	—	—
COLLAR	<u>X</u>	—	—

DRAWDOWN	0.74	FT
----------	------	----

DRAWDOWN VOLUME 0.12 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 0.068 L/MIN

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 1.4 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☐ PERISTALTIC
☐ SUBMERSIBLE
☐ OTHER _____

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

☐ POLYVINYL CHLORIDE
☐ STAINLESS STEEL
☐ OTHER _____

☐ TEFLON
☐ OTHER

PURGE OBSERVATIONS

NOTES

0933 - DTW = 10.60'
0945 - DTW = 10.62'
0953 - DTW = 10.63'
1010 - DTW = 10.75'

SIGNATURE:

L.A. EA

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/18/01

SITE TYPE	WELL	_____	_____
-----------	------	-------	-------

JOB NUMBER 57870.4

MEASUREMENT POINT

PROTECTIVE
CASING STICKUP
(FROM GROUND) *flush* FT

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

WELL DEPTH 25 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 2 IN

SCREEN LENGTH 10 FT

PID WELL	
MOUTH	PPM

WELL	YES	NO	N/A
INTEGRITY: CAP	☒	☐	☐

DRAWDOWN VOLUME	0.33	GAL
--------------------	------	-----

PRODUCT THICKNESS FT

LOCKED	<u>X</u>	---	---
COLLAR	<u>X</u>	---	---

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

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 1.16 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

1043 - DTW = 19.45'
1057 - DTW = 19.65'
1107 - DTW = 19.76'
1116 - DTW = 19.91'
1125 - DTW = 20.01'

SIGNATURE:

[Handwritten signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/15/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

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

PROTECTIVE
CASING STICKUP
(FROM GROUND) Flush FT

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

WELL DEPTH 23.0 FT

PID	PPM
AMBIENT AIR	

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

SCREEN LENGTH 10 FT

PID WELL MOUTH	PPM

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

DRAWDOWN VOLUME 0.07 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	0.063	L/MIN
------------	-------	-------

BEGIN
PURGING

END
PURGING

TOTAL VOL. PURGED 1.46 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

[illegible]

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

TYPE OF BLADDER MATERIAL (if applicable)

☒ PERISTALTIC☐ TEFLON OR TEFLON LINED

☐ POLYVINYL CHLORIDE

☐ **TEFLON**

☐ SUBMERSIBLE **HIGH DENSITY POLYETHYLENE**☐ STAINLESS STEEL☐ OTHER _____☐ OTHER☐ OTHER☐ OTHER**PURGE OBSERVATIONS**

NOTES

1505 - DTW = 15.72'
1515 - DTW = 15.72'
1528 - DTW = 15.79'
1539 - DTW = 15.79'
1545 - DTW = 15.82'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/12/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 51870.4

MEASUREMENT POINT

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

PROTECTIVE
CASING STICKUP
(FROM GROUND) 1.45 FT

PROTECTIVE CASING / WELL DIFFERENCE	0.25	FT
---	------	----

WELL DEPTH **28.66** FT

PID	PPM
AMBIENT AIR	

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

SCREEN LENGTH 3 FT

PID WELL MOUTH	PPM

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

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}))

BEGIN
PURGING

1318

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

1337 - DTW = 12.00'
1347 - DTW = 12.86'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/12/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

MEASUREMENT POINT

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

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

WELL DEPTH	
	FT

PID	PPM
AMBIENT AIR	

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

SCREEN LENGTH	
---------------	--

PID WELL	
MOUTH	PPM

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

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

6948
1455

END
PURGING

TOTAL VOL. PURGED GAL
(purge rate (L/min) x duration (min) x 0.1)

Florida / Dan-Idell

[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

$$1003 - DTW = 8.35'$$

SIGNATURE:

[Handwritten signature]

Harding ESE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT Former Taylor Instruments 4Q DATE 12/15/01
 SITE ID TW-07 SITE TYPE WELL
 SITE ACTIVITY START 0820 END 0958 JOB NUMBER 51870.4

WATER LEVEL / PUMP SETTINGS

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

PROTECTIVE CASING STICKUP (FROM GROUND) flush FT

PROTECTIVE CASING / WELL DIFFERENCE 2 FT

INITIAL DEPTH TO WATER 13.15 FT

WELL DEPTH 18.12 FT

PID AMBIENT AIR PPM

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER 14.17 FT

SCREEN LENGTH 5 FT

PID WELL MOUTH PPM

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

DRAWDOWN 1.02 FT

DRAWDOWN VOLUME 0.16 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 0.060 L/MIN

BEGIN PURGING 0835

END PURGING 0954

TOTAL VOL. PURGED 1.23 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	
0854	= 1.06	6.74	1.90	40.8	1.11	8.87	10.83	-10	= 56 mL/min
0904	= 1.65	6.72	1.82	20.0	1.09	8.75	11.02	-6	= 59 mL/min
0913	= 2.22	6.71	1.78	12.2	1.05	9.71	11.05	-6	= 63 mL/min
0923	= 2.83	6.72	1.76	7.7	1.05	8.67	10.86	-8	= 61 mL/min
0926	Collect sample TW-07 for 8260+NA								

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

0855 - DTW = 13.55'
 0905 - DTW = 13.71'
 0913 - DTW = 13.85'
 0923 - DTW = 14.00'

SIGNATURE: [Signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/12/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 51870.4

MEASUREMENT POINT

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

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

PROTECTIVE CASING / WELL DIFFERENCE	
---	--

INITIAL DEPTH TO WATER 6.11 FT

WELL DEPTH 15.1 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER	6.82	FT
-------------------------	------	----

SCREEN LENGTH 5 FT

PID WELL MOUTH	PPM

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

DRAWDOWN	0.71	FT
----------	------	----

DRAWDOWN VOLUME	0.11	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 0.07 L/MIN

BEGIN PURGING 1528

END
PURGING

1628

TOTAL VOL. PURGED	1.09 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

1542 - DTW = 6.85'
1553 - DTW = 6.95'
1603 - DTW = 6.97'
1613 - DTW = 6.93'
1623 - DTW = 6.98'

SIGNATURE:

Handwritten signature

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/14/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 51870.4

PROTECTIVE
CASING / WELL
DIFFERENCE

0.25	FT
------	----

WELL DIAMETER 2 IN

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

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

TOTAL VOL. PURGED 1.77 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

☐ TEFLON

☐ OTHER _____

NOTES

1135 - DTW = 13.05'
1145 - DTW = 13.06'
1151 - DTW = 13.05'
1200 - DTW = 13.03'
1209 - DTW = 13.05'

SIGNATURE:

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

DATE 12/14/01

SITE TYPE	WELL
-----------	------

JOB NUMBER 57870.4

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

PROTECTIVE CASING STICKUP (FROM GROUND)	2.3	FT
---	-----	----

PROTECTIVE CASING / WELL DIFFERENCE	0.26 FT
---	---------

INITIAL DEPTH TO WATER	14.35	FT
---------------------------	-------	----

WELL DEPTH 17.35 FT

PID	PPM
AMBIENT AIR	

WELL DIAMETER 2 IN

FINAL DEPTH TO WATER	15.75	FT
-------------------------	-------	----

SCREEN LENGTH	FT
------------------	----

PID WELL	
MOUTH	PPM

WELL INTEGRITY: CAP YES NO N/A
X

DRAWDOWN	1.4	FT
----------	-----	----

RAWDOWN VOLUME 0.22 GAL

PRODUCT THICKNESS FT

LOCKED ☒ ☐ ☐

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

PURGE RATE 0.063 L/MIN

BEGIN PURGING	1448
------------------	------

END
PURGING

TOTAL VOL. PURGED 1.41 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

[illegible]

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>	<u>TYPE OF BLADDER MATERIAL (if applicable)</u>
☒ PERISTALTIC	☐ TEFLON OR TEFLON LINED	☐ POLYVINYL CHLORIDE	☐ TEFLON
☐ SUBMERSIBLE	☒ HIGH DENSITY POLYETHYLENE	☐ STAINLESS STEEL	☐ OTHER _____
☐ OTHER _____	☐ OTHER _____	☐ OTHER _____	

- * rain + wind keep preventing measurement of a reliable flow rate

1502 - DTW = 14.67'
1512 - DTW = 14.78'
1522 - DTW = 14.85'
1532 - DTW = 15.10'
1545 - DTW = 15.05'

SIGNATURE:

APPENDIX E

WELL CONSTRUCTION INFORMATION

Appendix E **Well Construction Information**

Quarterly Progress Report
Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

				Screen Interval		Coordinates			Well Material	Completion		
Well ID	Date Installed	Boring Depth	Well Depth	Top	Bottom	Easting	Northing	Elevation	Riser/Screen	Flush-mount	Vault	Stick-up
BR-01	09/02/97	42.2	42.2	NA	NA	750363.33	1150087.01	529.5	Stainless / Open	X		
BR-02	09/02/97	44.0	44.0	NA	NA	750541.81	1149964.51	532.39	Stainless / Open	X		
BR-03	09/02/97	40.1	40.1	NA	NA	750552.93	1149641.68	533.8	Stainless / Open			X
BR-04	09/03/97	44.2	44.2	NA	NA	750322.96	1149422.13	532.68	Stainless / Open	X		
BR-05	09/03/97	49.9	49.9	NA	NA	750216.62	1149958.67	531.76	Stainless / Open	X		
BR-06	09/03/97	42.6	42.6	NA	NA	749939.91	1149145.54	537	Stainless / Open	X		
BR-07	09/03/97	53.3	53.3	NA	NA	749983.5	1149989.76	532.1	Stainless / Open			X
BR-08	07/28/00	73.0	73.0	NA	NA	750340.94	1149482.41	533.13	Iron / Open	X		
BR-09	07/28/00	47.0	47.0	NA	NA	750400.72	1149438.67	532.72	Iron / Open	X		
BR-10	07/28/00	47.0	47.0	NA	NA	750426.9	1149411.76	532.29	Iron / Open	X		
BR-11	07/28/00	52.0	52.0	NA	NA	750387.82	1149546.25	532.53	Iron / Open	X		
BR-12	07/28/00	42.0	42.0	NA	NA	750195.19	1150010.12	531.9	Iron / Open	X		
BR-13	07/28/00	67.5	67.5	NA	NA	750197.49	1150044.27	532.01	Iron / Open	X		
BR-14	07/28/00	75.3	75.3	NA	NA	750260.61	1150052.2	531.67	Iron / Open	X		
BR-15	07/26/00	72.0	72.0	NA	NA	750293.39	1149980.43	531.69	Iron / Open	X		
BR-16	07/26/00	55.0	55.0	NA	NA	750223.79	1150013.71	531.32	Iron / Open	X		
BR-17	07/28/00	52.0	52.0	NA	NA	750333.76	1149478.26	533.16	Iron / Open	X		
EW-N-1	08/15/00	27.0	27.0	5.2	26.0	750198.77	1149956.96	529.28	Stainless / PVC		X	
EW-N-2	08/23/00	27.0	27.0	5.5	26.0	750225.81	1149942.16	528.76	Stainless / PVC		X	
EW-N-3	08/22/00	26.8	26.8	5.2	25.8	750217.16	1149980.06	528.69	Stainless / PVC		X	
EW-N-4	08/23/00	26.0	26.0	7.2	25.0	750259.43	1149928.84	529.32	Stainless / PVC		X	
EW-N-5	08/16/00	27.0	27.0	5.5	26.0	750257.98	1149972.33	528.26	Stainless / PVC		X	
EW-N-6	08/18/00	25.5	25.0	6.1	24.0	750293.49	1149957.98	529.18	Stainless / PVC		X	
EW-S-1S	10/01/98	14.0	13.7	4.3	13.7	750332.8	1149428.08	529.41	Stainless		X	
EW-S-1D	10/01/98	18.3	18.3	4.3	17.9	750327.22	1149428.49	529.41	Stainless		X	
EW-S-2	07/26/00	23.1	22.0	5.5	21.0	750256.26	1149404.38	528.68	Stainless / PVC		X	
EW-S-3	07/28/00	23.5	22.0	5.5	21.0	750301.18	1149370.46	529.55	Stainless / PVC		X	
EW-S-4	07/26/00	23.5	22.0	5.5	21.0	750293.94	1149418.71	532.41	Stainless / PVC		X	
EW-S-5	08/01/00	23.5	22.5	5.8	21.5	750325.14	1149386.52	529.53	Stainless / PVC		X	

Appendix E Well Construction Information

Quarterly Progress Report
Fourth Quarter 2001
Former Taylor Instruments Site
Rochester, New York

				Screen Interval		Coordinates			Well Material	Completion		
Well ID	Date Installed	Boring Depth	Well Depth	Top	Bottom	Easting	Northing	Elevation	Riser/Screen	Flush-mount	Vault	Stick-up
EW-S-6	07/31/00	22.9	22.4	5.9	20.9	750341.87	1149362.58	529.27	Stainless / PVC		X	
EW-S-7	08/07/00	23.1	22.5	5.9	21.6	750339.03	1149413.8	529.59	Stainless / PVC		X	
EW-S-8	08/02/00	23.0	22.5	5.8	21.5	750359.86	1149402.69	529.65	Stainless / PVC		X	
EW-S-9	08/03/00	23.0	22.5	6.0	21.5	750355.07	1149440.13	532.99	Stainless / PVC		X	
EW-S-10	08/09/00	22.6	22.5	6.0	21.5	750381.3	1149367.65	529.43	Stainless / PVC		X	
EW-S-11	08/08/00	22.6	22.5	5.9	22.0	750377.04	1149418.02	529.5	Stainless / PVC		X	
EW-S-12	08/04/00	22.3	22.3	5.8	21.3	750375.38	1149466.45	529.96	Stainless / PVC		X	
EW-S-13	08/10/00	22.0	22.0	6.0	21.0	750399.16	1149448.68	529.53	Stainless / PVC		X	
EW-S-14	08/11/00	22.0	22.0	5.6	21.0	750406.59	1149410.24	529.37	Stainless / PVC		X	
EW-S-15	08/14/00	22.0	21.8	5.2	20.8	750414.78	1149480.34	529.96	Stainless / PVC		X	
EW-S-16	08/10/00	21.3	21.3	5.2	20.3	750433.72	1149448.95	529.57	Stainless / PVC		X	
OB-04	09/05/97	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.8	PVC	X		
OB-05	09/05/97	18.0	18.0	4.0	18.0	750223.51	1149958.83	531.5	PVC	X		
OB-06	07/19/00	17.0	17.0	6.8	16.8	750421.89	1149461.5	532.6	PVC	X		
OB-07	07/19/00	20.5	20.5	10.2	20.2	750461.13	1149512.6	533.03	PVC	X		
OB-08	07/28/00	25.5	25.3	15.3	25.1	750279	1149957.45	531.64	PVC	X		
OB-09	07/28/00	23.5	23.3	13.3	23.1	750312.26	1149992.94	531.85	PVC	X		
TW-01	03/12/96	22.0	22.0	17.0	22.0	750548.13	1149471.23	533	PVC	X		
TW-04	03/15/96	17.5	17.3	12.3	17.3	750552.18	1149648.54	532.6	PVC			X
TW-07	03/15/96	17.5	17.5	12.5	17.5	750546.69	1149830.01	531.4	PVC	X		
TW-09	03/30/96	16.0	16.0	11.0	16.0	750542.22	1149971.84	530.54	PVC	X		
TW-13	03/12/96	15.0	15.0	10.0	15.0	750086.24	1150016.03	532	PVC	X		
TW-17	03/13/96	15.0	15.0	10.0	15.0	750373.39	1150088.34	529.7	PVC			X
TW-20	03/13/96	15.0	15.0	10.0	15.0	750547.88	1150118.75	530.2	PVC			X
W-2	09/15/82	21.0	18.0	13.0	18.0	749940.43	1149136.77	537	PVC			X
W-4	09/22/82	29.0	26.0	21.0	26.0	749977.63	1149996.42	531.8	PVC			X
W-5	09/15/82	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.9	PVC	X		
W-6	09/15/82	16.5	15.0	13.0	15.0	750288.78	1149332.79	532.55	PVC	X		

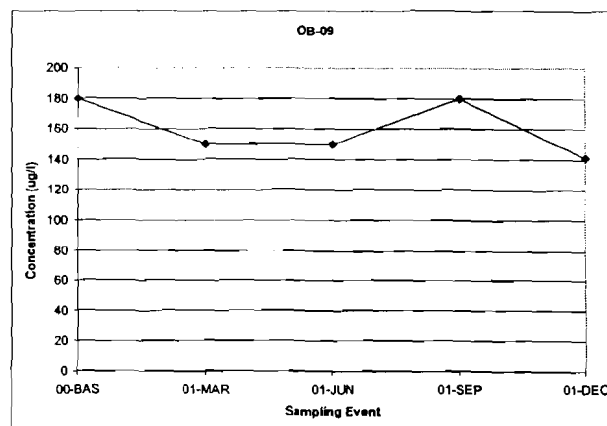
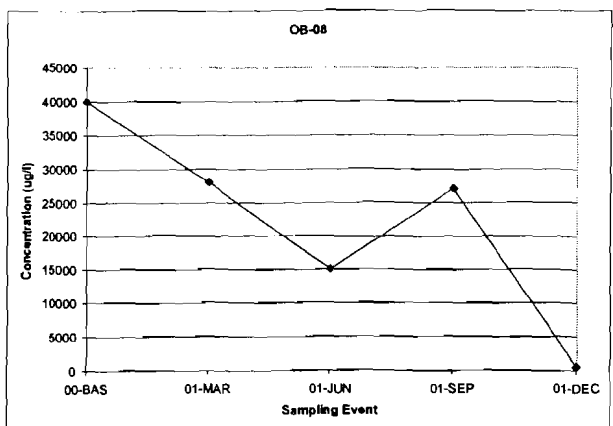
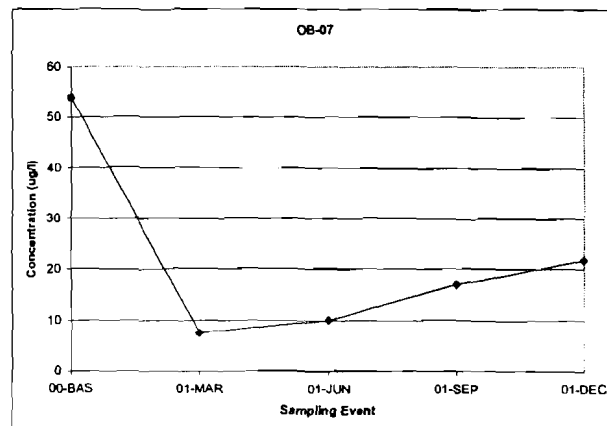
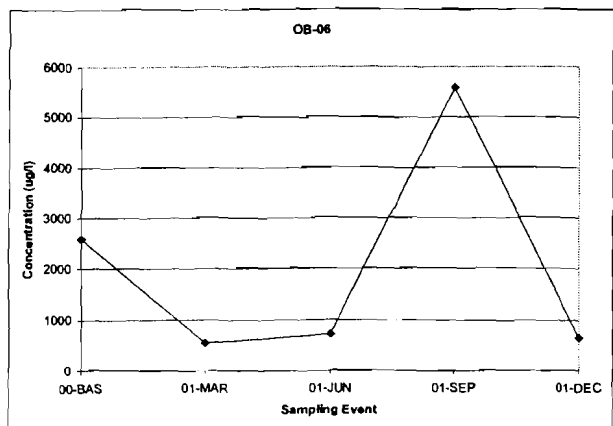
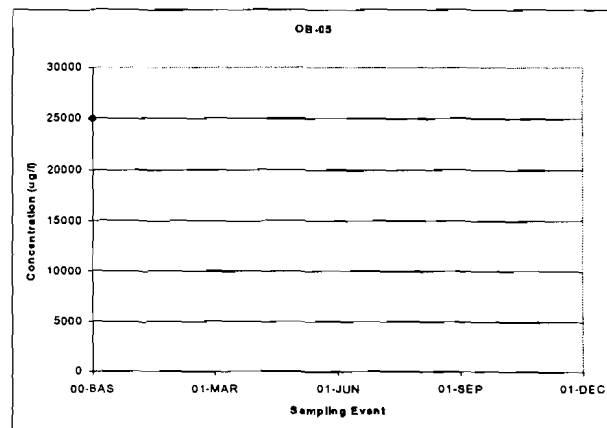
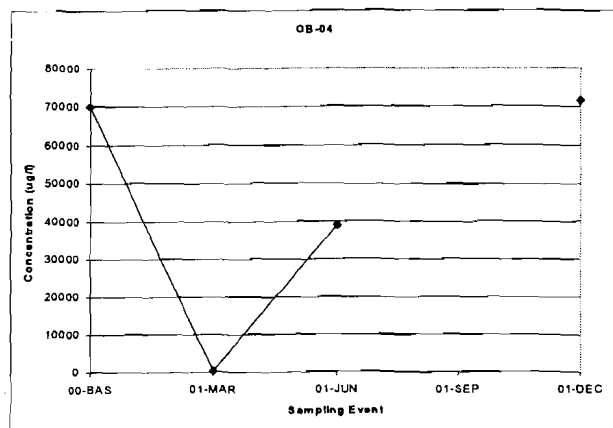
APPENDIX F

MONITOR WELL CONCENTRATION TREND GRAPHS

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

Overburden Wells

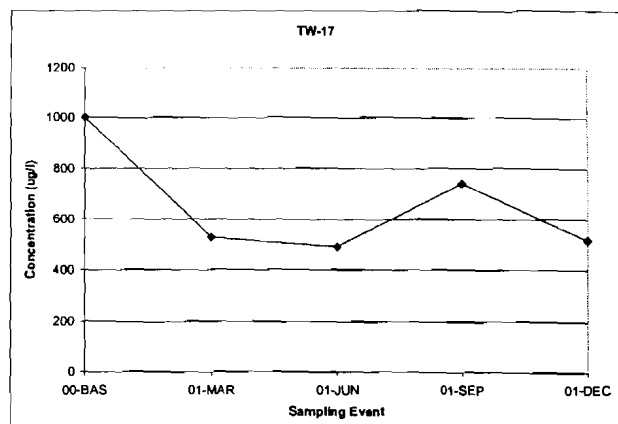
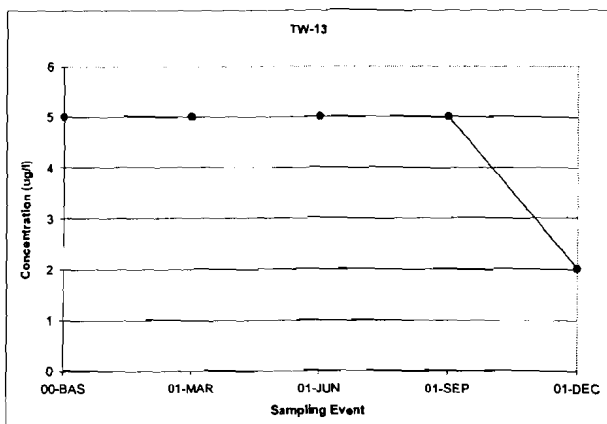
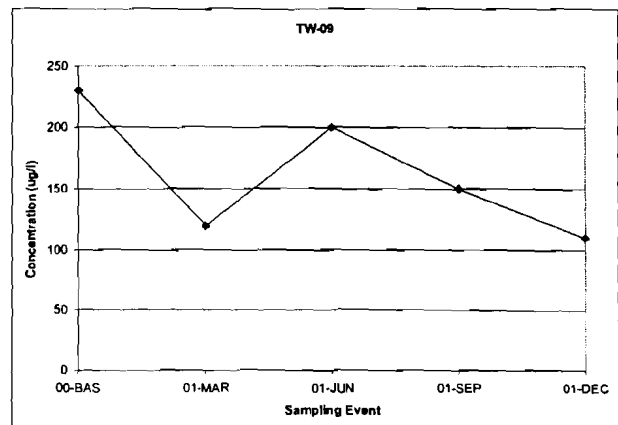
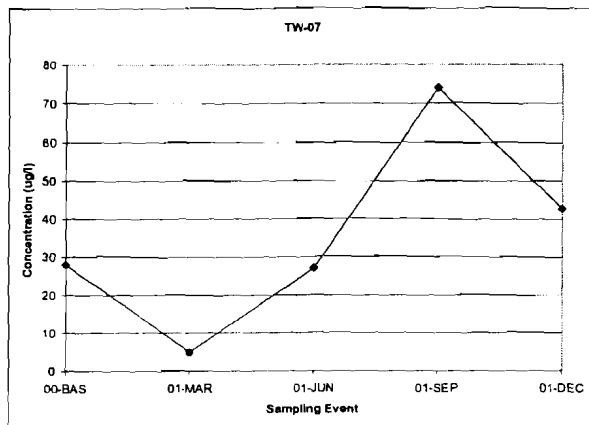
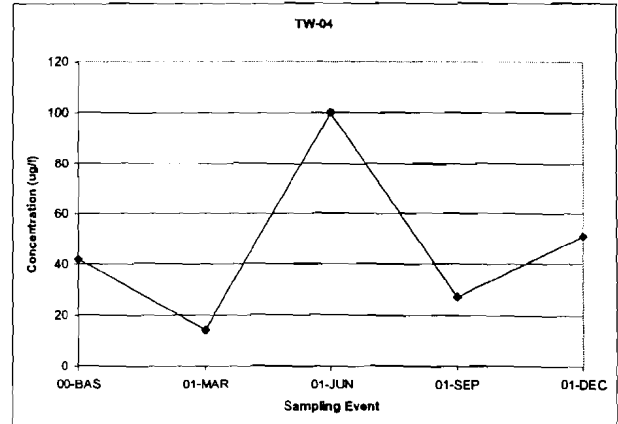
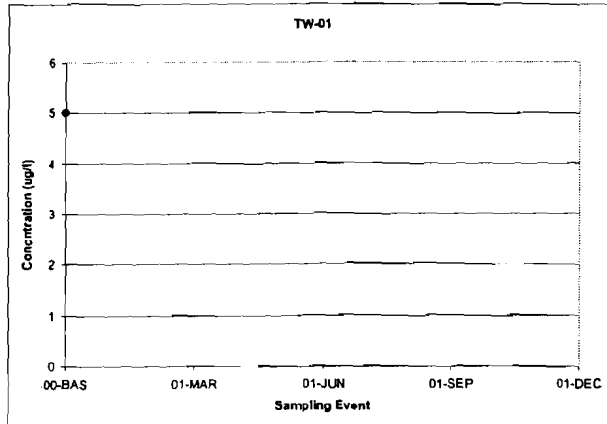


diamond = actual value
circle = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs

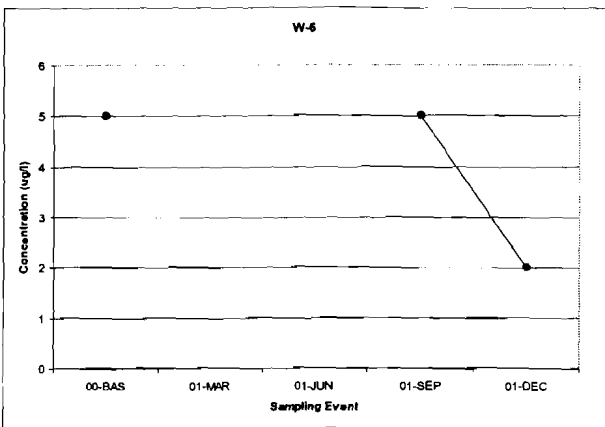
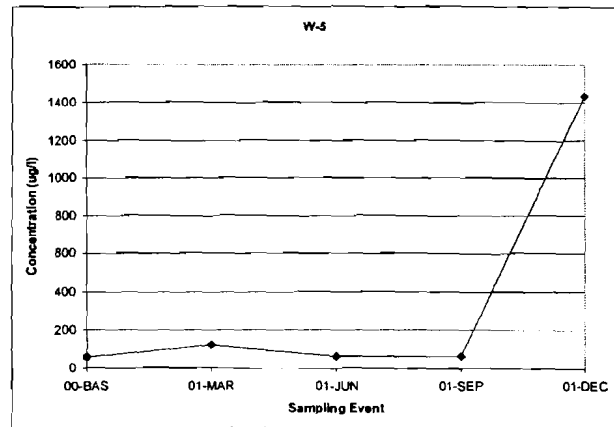
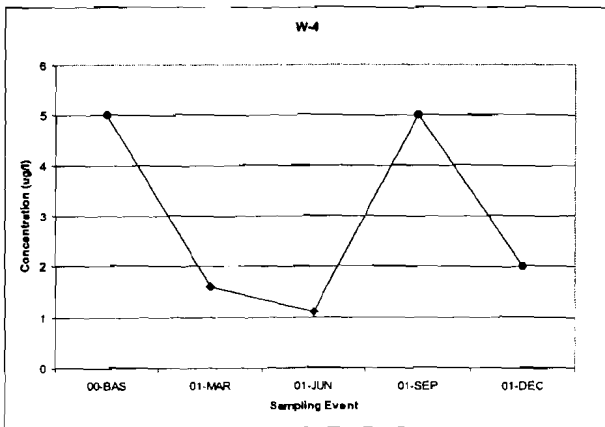
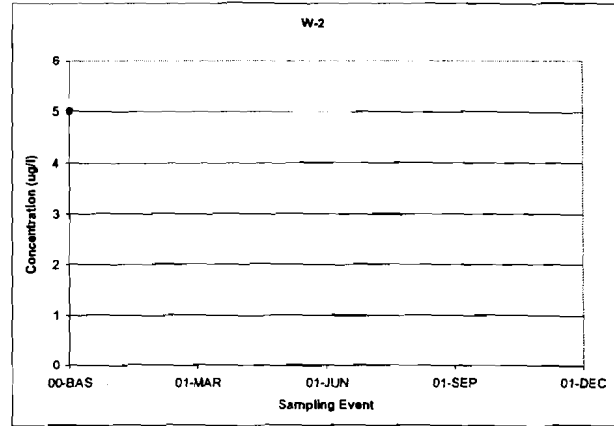
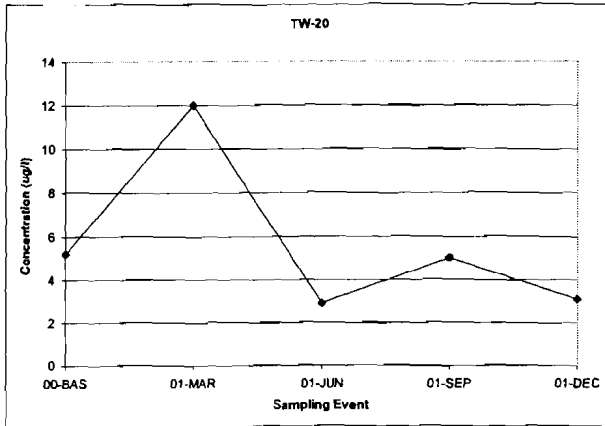
(TCE Concentration Trends)



diamond = actual value
circle = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

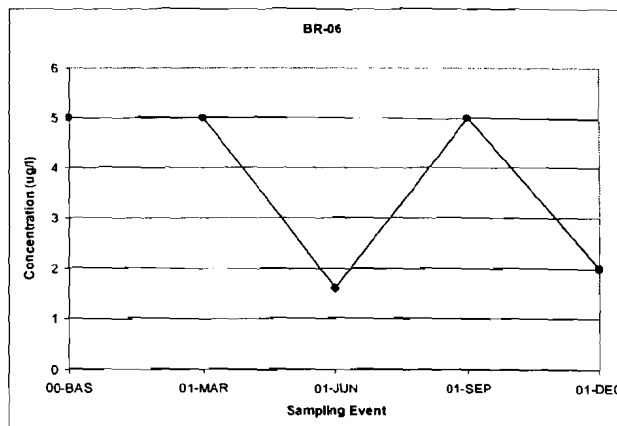
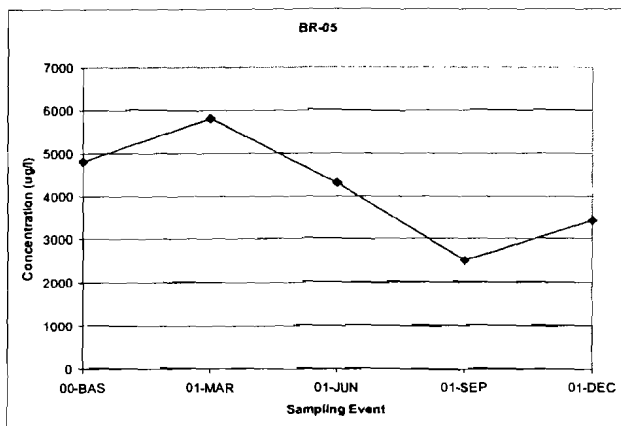
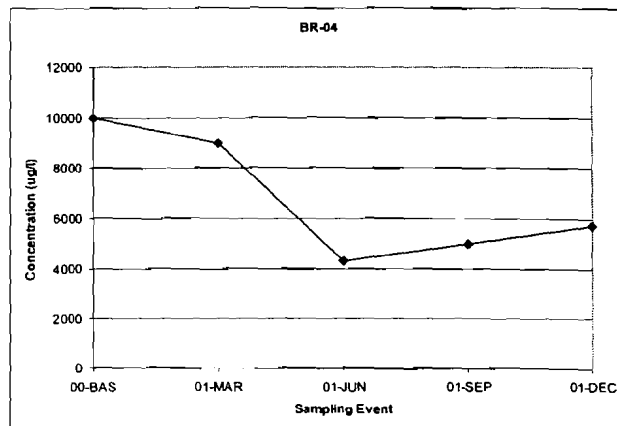
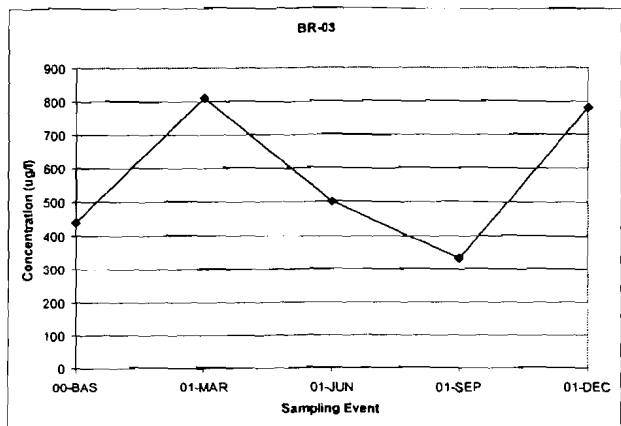
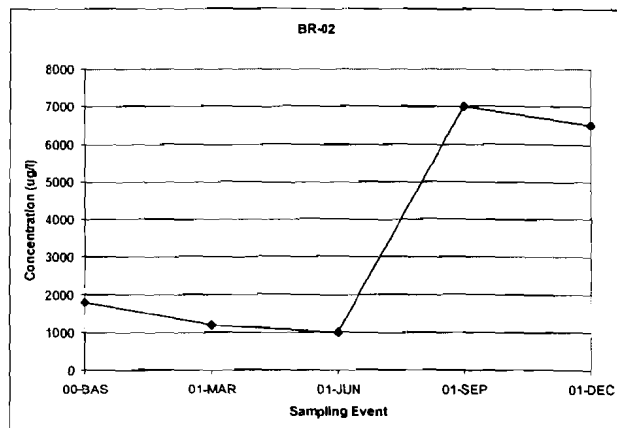
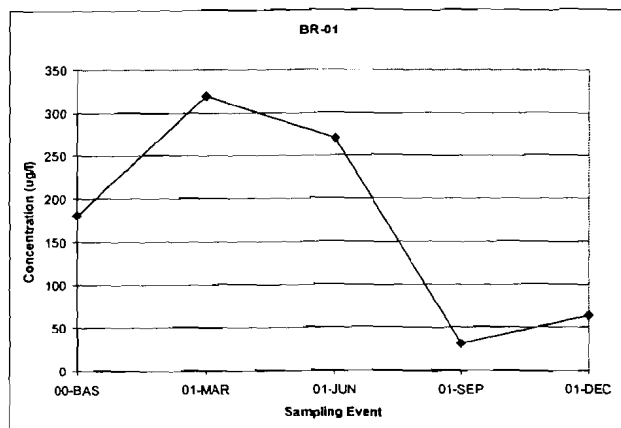


diamond = actual value
circle = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)

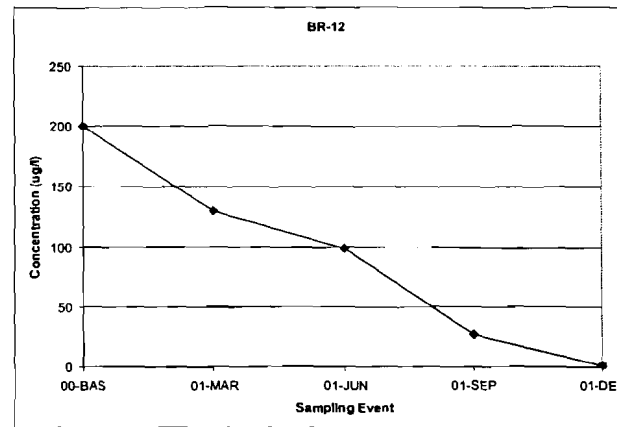
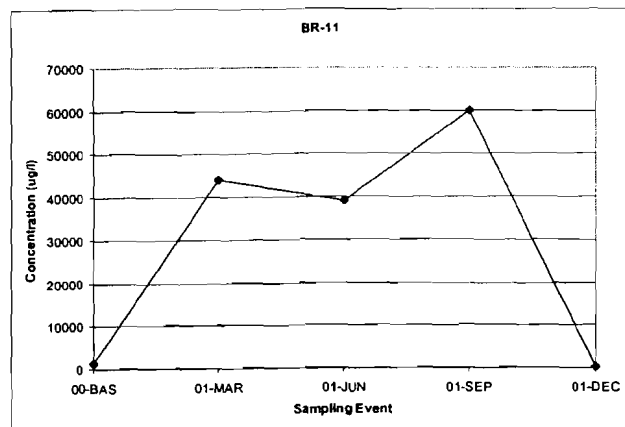
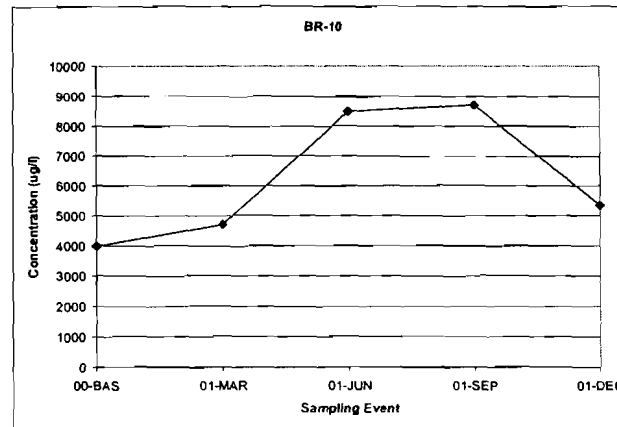
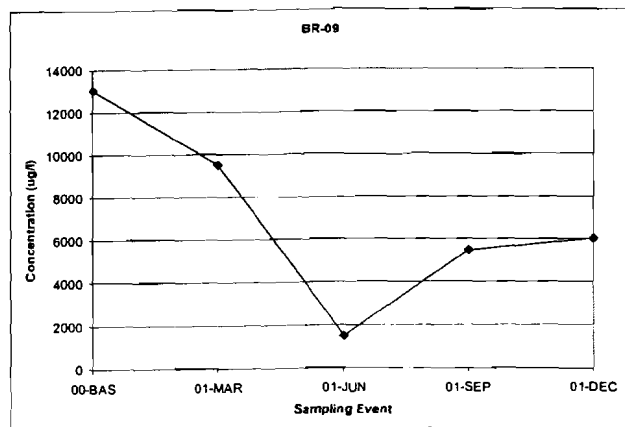
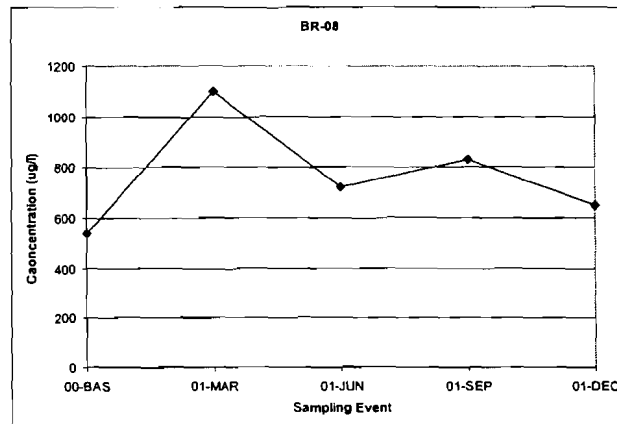
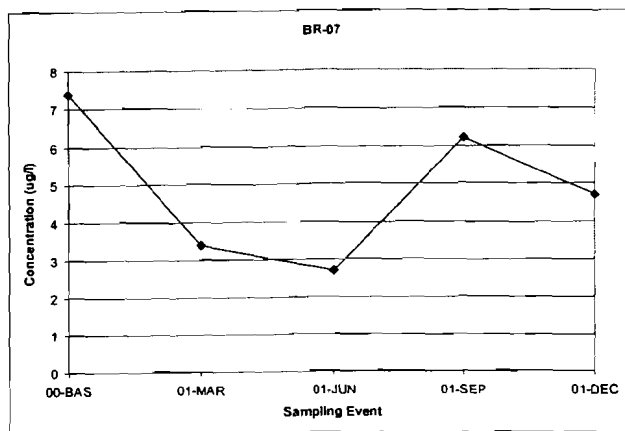
Bedrock Wells



diamond = actual value
circle = value below graphed detection limit

Appendix F

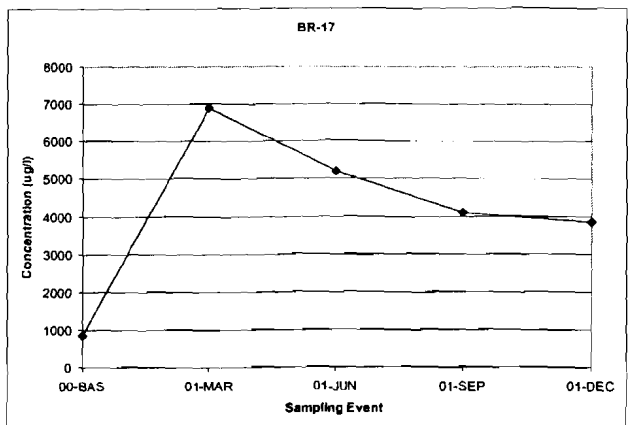
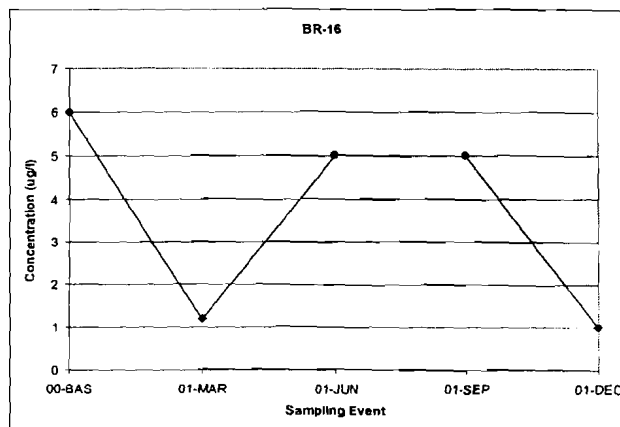
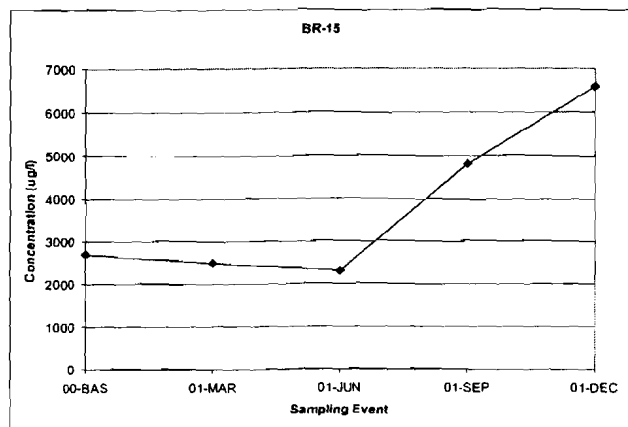
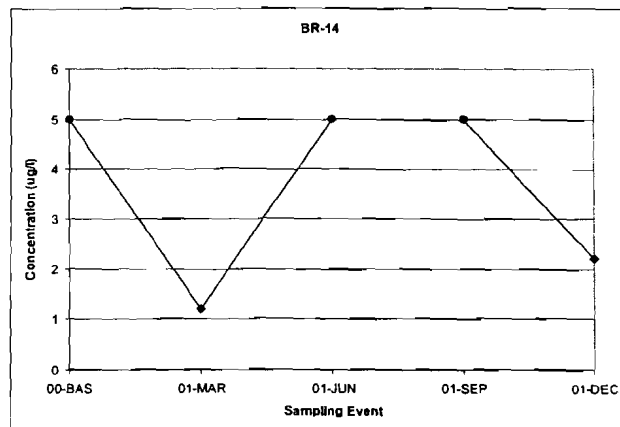
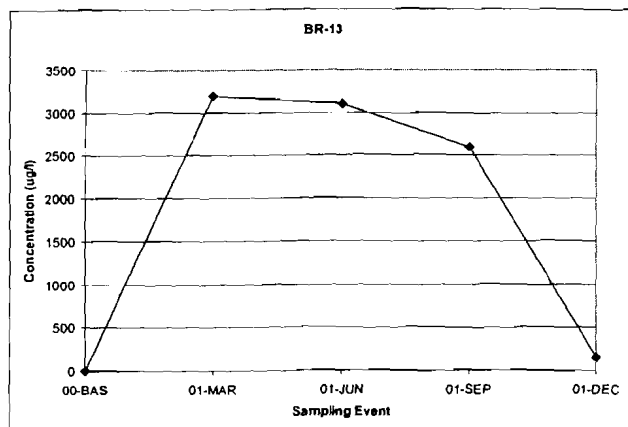
Monitor Well Concentration Trend Graphs (TCE Concentration Trends)



diamond = actual value
circle = value below graphed detection limit

Appendix F

Monitor Well Concentration Trend Graphs (TCE Concentration Trends)



diamond = actual value
circle = value below graphed detection limit