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ECOR
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June 27, 2008

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: First Quarter 2008 Report
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the First Quarter of 2008. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order.

Also, we will be in touch in the near future to discuss a possible second injection.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

T^f^N^ 

Matthew Lapp
Project Engineer

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JUL -3 2008

P.



cc: JMT. JohnGrathwol-NYSDEC

Mr. Chris Rockwell - Garlock Sealing Technologies

Mr. Terry Etter, P.E. - Unisys Corporation

Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)

Keith Rapp - ECOR Solutions

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Final
BYRON BARREL & DRUM SITE
QUARTERLY REPORT
FIRST QUARTER 2008

Byron Barrel & Drum Site
Area 2
Byron, New York

June 27, 2008

Prepared for:
BYRON BARREL & DRUM PRP GROUP

Prepared by:
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I.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the first quarter 2008. A Site map is provided as **Figure 1**. The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the first calendar quarter of 2008. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

LI SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the Findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of two additional groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

The Remedial Design was altered in late 2007 with the injection of carbon substrate to enhance in-situ bioremediation

L2 **CHRONOLOGY OF EVENTS**

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	Date	Notes
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11, 2001	
RA Construction	June 11 -July 15, 2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous O & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17,2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12, 2007	
In-Situ Bioremediation Injection Event •	September 18-20,2007	...
Preliminary Injection monitoring samples collected in addition to groundwater VOC samples	December 19-21,2007	
Injection monitoring samples collected in addition to groundwater VOC samples	March 26, 2008	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (First Quarter 2008), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUNDWATER TREATMENT SYSTEM

During routine operation, groundwater was recovered from the three pumping wells (PW-1, PW-2, and PW-3) and treated through a bag filter and an air stripper prior to discharge. The bag filter removed suspended solids greater than 50 microns in diameter. The low-profile air stripper removed the VOCs from the groundwater. Following air stripping, the groundwater was discharged to surface water.

Figure 1 illustrates the PW locations and the Groundwater Treatment System (GWTS). A Flow Diagram of the GWTS equipment and process piping is presented in **Figure 2**.

3.1 CURRENT SYSTEM STATUS

The GWTS was temporarily shut down on September 12, 2007 to allow for the In-Situ Remediation Technology (ISRT injection) to be carried out. The system will remain shut down awaiting the results and evaluation of the injection. A preliminary evaluation is presented in Section 4.4.

3.2 SYSTEM OPERATIONS HISTORY THROUGH FIRST QUARTER 2008

A total of 20,572,110 gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,748,110 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

3.3 MONITORING HISTORY THROUGH FIRST QUARTER 2008

Tables 1 and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4**. This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

4.0 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on March 26, 2008 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23, 2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B, MW-21, MW-Residential and pumping wells PW-1, and PW-2 using EPA's low-flow sampling procedures, in accordance with the QAPP. PW-3 was sampled at a later date on April 10, 2008. A summary of the field parameter measurements is presented in **Table 3**. Copies of field notes collected during the sampling events are included in **Appendix A**. The preserved groundwater samples were collected and analyzed by TestAmerica Laboratories (TAL), Buffalo, New York. A summary of Site groundwater elevations is provided in **Table 4**.

4.2 LABORATORY ANALYSIS / GROUND WATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5**. The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, MW-10B and MW-21) were analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1 -DCA, 1,1 -DCE, MeCl, TCA, TCE, toluene, VC and cis-1,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 210 micrograms per liter (ug/L) (TCA at monitoring well MW-1). Currently, only 1,1 -DCA, and TCA are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

Chemical	Groundwater Cleanup Level (ug/L)
1,1-Dichloroethane	5
1,1 -Dichloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

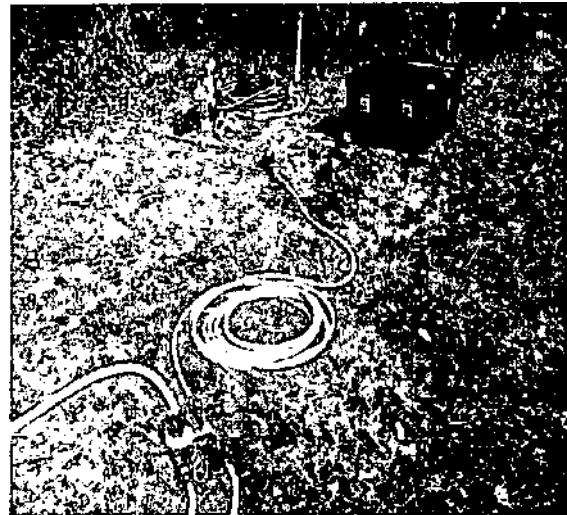
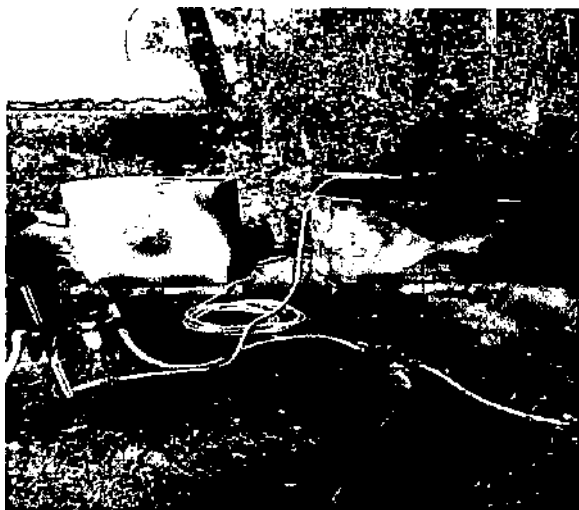
Groundwater quality data is depicted on **Figure 6** with those constituents detected above the applicable clean-up standard are highlighted in yellow.

4.3 DATA VALIDATION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B**.

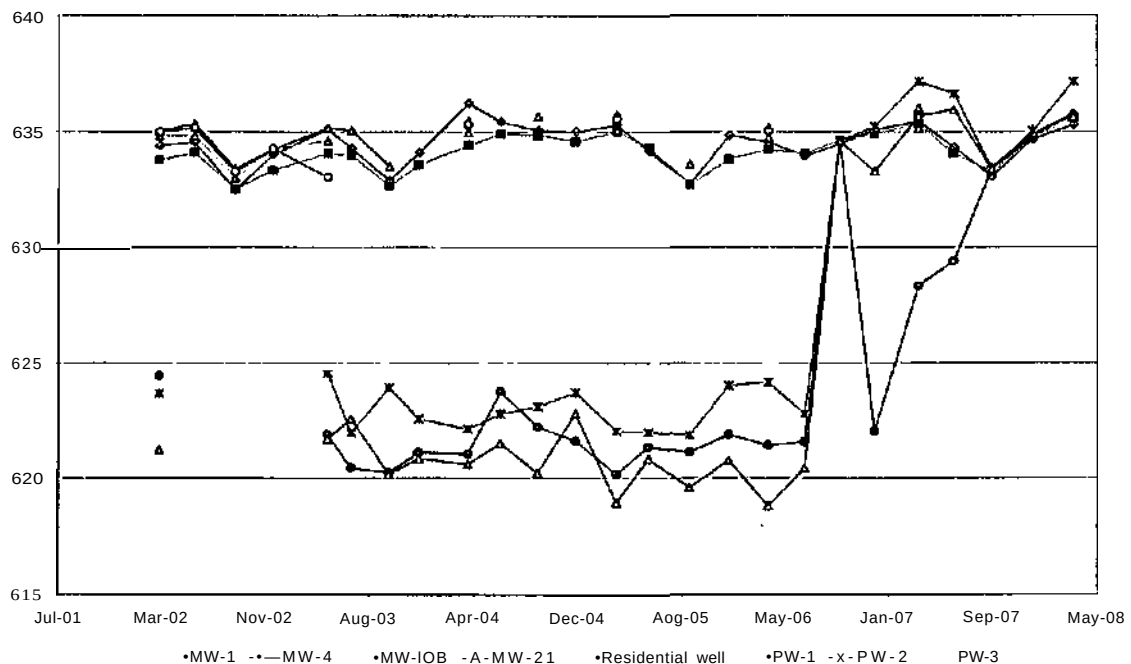
4.4 ISRT EVALUATION

The injection program began on September 18, and was completed on September 20, 2007. The injection program consisted of metering the amendment from totes and pails containing the Newman's Zone, an emulsified vegetable oil, mixed with, potable water and injection downeach well as a dilute solution.



Monitoring groundwater levels for the period was conducted March 26, 2008, and again at MW-1, MW-4, and PW-3 on April 10, 2008. Groundwater samples were collected for laboratory analysis on March 26, 2008, at wells MW-1, MW-4, MW-10B, MW-21, the Residential well, PW-1 and PW-2. PW-3 was sampled April 10, 2008. Similar to previous monitoring periods where the GWTP was not operating, the horizontal hydraulic gradient is extremely low (0.0031), as noted in the chart below.

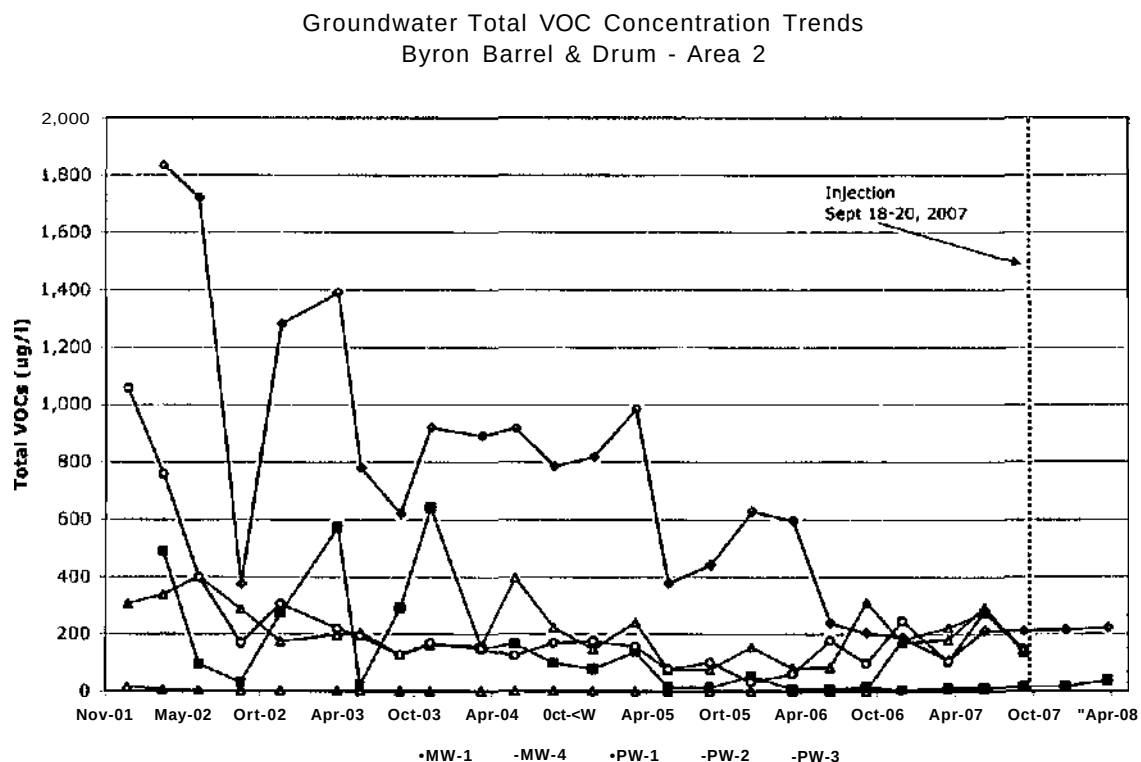
Well Hydrographs - Byron Barrel & Drum Site



The potentiometric elevations measured in March 2008, are provided on **Figure 5**.

Several parameters are sampled as part of the ERD program to monitor progress of the pilot test, including Iron (Total and Dissolved), Manganese (Total and Dissolved), Biochemical Oxygen Demand, Chemical Oxygen Demand, Chloride, Nitrate-Nitrite, Sulfate and Sulfide, Total Kjeldahl Nitrogen, Total Organic Carbon (TOC), Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide, and VOCs. **Table 3** provides a summary of the field parameters measured during the March 2008, Quarterly Sampling Event. **Table 5** provides a summary of the VOCs detected during the March/April 2008, Quarterly Sampling Event. Raw data is presented on **Appendix C**.

The March/April 2008, sampling event was the second post-injection sampling and is confirming some trends in the data in the ERD pilot test. The VOC levels in downgradient monitoring wells MW-1 and MW-4 have exhibited a slight increase in total VOCs, which is common in the initial post-injection sampling programs. **Figure 6** provides a summary of the common VOCs detected in monitoring wells MW-1, MW-2, MW-4, MW-10B, PW-1, PW-2 and PW-3.



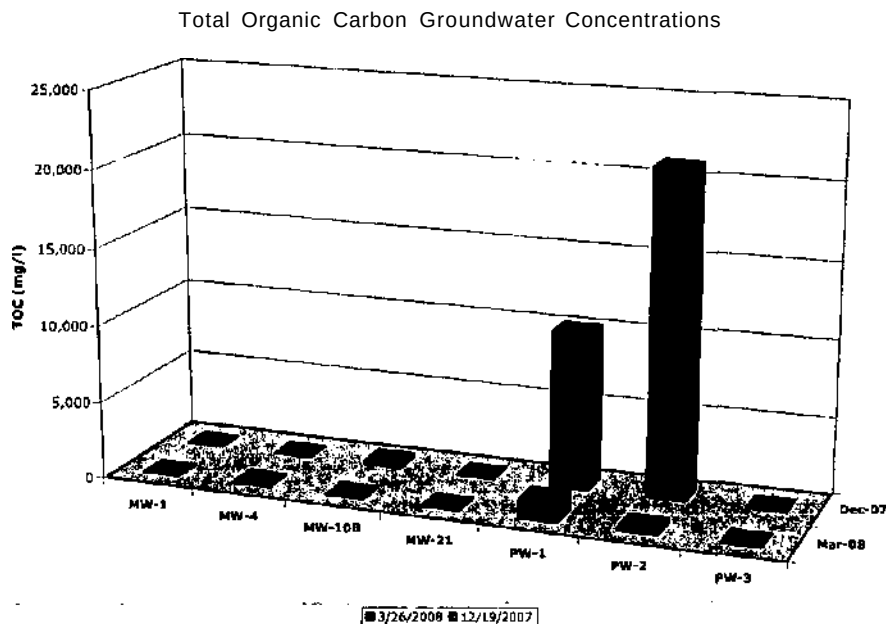
At monitoring well MW-10B the large spike in VOC levels detected in December 2007, largely 11 ITCA and 1 IDCA, have returned to historical levels. The increase in concentrations depicted in the December 2007, sampling event is an indication the injection program affected a source area near MW-10B. This

area may be the focus of future injections. To date, the total VOC concentration mimics the 111TCA concentration (**Appendix D**), and a further indication the ERD program is progressing will be the generation of the daughter products and a reduction of the ratio of 111TCA to total VOCs.

The March/April 2008, sampling event shows a reduction in the development of the ERD zone, primarily depicted by the distribution of TOC since the injection event. **Figure 7** provides a contour map of the distribution of TOC detected in March/April 2008. A comparison of this data is summarized in the table below.

Total Organic Carbon (mg/l)		
	12/19/2007	3/26/2008
MW-1	2.3	2
MW-4	10.0	118.0
MW-10B	240	12.8
MW-21	18.7	28.1
PW-1	10,200	1,250
PW-2	21,100	254
PW-3		14

TOC levels increased only at monitoring well MW-4, downgradient of the injection area, and at MW-21, outside the ERD zone, as highlighted in the chart below.



One primary objective of the ERD program is to keep the TOC concentrations elevated in this area, and this level of decrease in the TOC may indicate further carbon may be necessary to continue the ERD program.

Another measure of establishing an ERD zone is monitoring the oxidation reduction potential (ORP) in and downgradient of the injection zone. As opposed to the December 19, 2007, sampling date which indicated that the area only around PW-1 began to shift toward strongly anaerobic conditions, the March/April 2008, sampling event shows a broader area with lower ORP levels, as shown on Figure 8. These ORP results are consistent with the general increase in soluble iron, sulfide, Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), as summarized in the table below. These are positive trends in the ERD program.

		Iron, Total (mg/l)	Iron, Dissolved (mg/l)	Manganese, Total (mg/l)	BOD (mg/l)	COD (mg/l)	Sulfide (mg/l)
MW-1	12/19/2007	0.30	0.097	0.10	ND	ND	ND
MW-1	3/26/2008	0.29	0.16	0.02	ND	ND	ND
MW-4	12/19/2007	0.48	ND	0.011	ND	29.8	ND
MW-4	3/26/2008	7.3	4	1.2	76.8	340	ND
PW-1	12/19/2007	22.7	15.6	3.4	21,000	151,000	ND
PW-1	3/26/2008	25.4	16.2	4.1	792	8,180	2.4
PW-2	12/19/2007	1.4	0.71	0.76	16,000	79,800	ND
PW-2	3/26/2008	57.4	62.9	4.1	761	82,400	6.4

In terms of dissolved gasses, neither ethane or ethene were detected at any of the monitoring or injection wells. Methane was detected at MW-1, MW-4, PW-1 and PW-2, as noted in the table below.

		Ethane (ug/l)	Ethene (OH/l)	Methane (ug/l)	Carbon Dioxide (ug/l)
MW-1	12/19/2007	ND	ND	37	300,000
MW-1	3/26/2008	ND	ND	140	270,000
MW-4	12/19/2007	ND	ND	ND	150,000
MW-4	3/26/2008	ND	ND	140	470,000
MW-10B	12/19/2007	5.3	8.7	ND	NA
MW-10B	3/26/2008	ND	ND	ND	NA
PW-1	12/19/2007	ND	ND	ND	280,000
PW-1	3/26/2008	ND	ND	600	490,000
PW-2	12/19/2007	ND	ND	ND	47,000
PW-2	3/26/2008	ND	ND	480	350,000

Data generated from the 2006 BioTrap samplers confirmed that methanotrophs were detected at relatively high numbers ($7 \times 10^{*6}$ and $1 \times 10^{+7}$ cells/bead). Methanotrophs are ubiquitous aerobic microorganisms that require methane as their sole source of carbon. The enzyme that initially oxidizes

methane also oxidizes 111TCA, 1 IDC A, 11DCE, TCE and other chlorinated VOCs. These microorganisms will degrade these compounds cometabolically under aerobic conditions in the presence of methane without the production of the lesser chlorinated daughter products (e.g. 11DCA, chloroethane). These data indicate that methanotrophic degradation is still a major natural attenuation process at the Site, and during the 2nd Quarter 2008 the BioTrap samplers installed in MW-1 and MW-10B will be retrieved and analyzed. This data will generate additional data to evaluate the biological populations and further groundwater monitoring will determine trends in these parameters, and suggest any modifications necessary to the ERD pilot test program including an additional injection.

5.0 PLANS FOR NEXT QUARTER

It is recommended the GWTP remain shut-down until further post-injection sampling is conducted and evaluated. This means the GWTP will not be operational for the 2nd Quarter 2008. However, quarterly groundwater sampling will continue to be collected in accordance with the QAPP and described in Table 6. The second quarter 2008 sampling is scheduled for June 26, 2008. At this time the additional post-injection samples will also be collected. The second quarter report should provide additional analysis regarding the progress of the ERD and whether it will be necessary to resume GWTP operation.

Based on the results of the groundwater monitoring program, it was recommended that a second round of BioTrap samplers be installed in M W-1 and MW-10B in early-2008 to further demonstrate the progress of ERD through establishing the population of methanotrophs and genetic analysis of chlorinated solvent degraders, and shifts in the indigenous bacteria as the result of the hydrocarbon injection. These BioTrap samplers were installed on April 10, 2008 and will be removed during the second quarter sampling event and will be sent for analysis.

Additionally, plans for a secondary injection are being formulated pending approval EPA and NYDEC.

TABLES

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	01 /GW 7/28/2001	02/GW 8/8/2001	03/GW 8/18/2001	04/GW 9/18/2001	05/GW 9/27/2001	06/GW 10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, pg/L	23	47	60	19 J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12 J	16 DJ	50 U
Cis -1,2 - Dichloroethene, ug/L	1.0J	1.4 J	1.0J	50 U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, ug/L	1.9J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, ug/L	499	899	1276	1124	1174	823

Sampling Event Date	07/GW 10/17/2001	08/GW 11/8/2001	09/GW 11/28/2001	10/GW 12/13/2001	11/GW 12/27/2001	12/GW 1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, ug/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, ug/L	13J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis -1,2 - Dichloroethene, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	1200	580	530	260	220 E	250 E
Trichloroethene, ug/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Vinyl Chloride, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Total Confident VOCs, ug/L	1259	635	559	277	237	270

Sampling Event Date	13/GW 1/30/2002	14/GW 2/13/2002	15/GW 2/23/2002	16/GW 3/8/2002	17/GW 3/20/2002	18/GW 4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1J	2.5 J
Cis-1,2- Dichloroethene, pg/L	10U	10 U	5.0 U	5.0 U	5.0 U	10U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	1.8 BJ	10U
1,1,1 -Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10 U	10 U	3.3 J	5.0 U	5.0 U	10U
Vinyl Chloride, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	10U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	19/GW 4/24/2002	20/GW 5/8/2002	21/GW 5/21/2002	22/GW 6/4/2002	23/GW 6/13/2002	24/GW 7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	10	12	20	19 J	18 D, J	20
1,1-Dichloroethene, ug/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10U	10 U	10 U	25 U	20 U	10U
Methylene Chloride, ug/L	15 B	10 U	3.1 BJ	16J	12 B,D,J	8.5 B,J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, ug/L	2.6 J	10U	10U	25 U	20 U	10 U
Vinyl Chloride, ug/L	10 U	10U	10U	25 U	20 U	10 U
Total Confident VOCs, ug/L	246	276	376	425	390	407

Sampling Event Date	25/GW 7/23/2002	26/GW 8/29/2002	27/GW 9/18/2002	28/GW 10/29/2002	29/GW 11/25/2002	30/GW 12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, ug/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, ug/L	2.6 J	1.3J	1.8 J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, ug/L	10U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Methylene Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, ug/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10U	1.9 J	1.9J	2.5 J	10 U	1.9J
Toluene, pg/L	10U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	10U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs. pg/L	222	162	202	184	172	161

Sampling Event Date	31/GW 1/17/2003	32/GW 2/19/2003	33/GW 4/30/2003	34/GW 6/23/2003	35/GW 7/30/2003	36/GW 8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10U	10U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6J	10U	10U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	37/GW 9/24/2003	38/GW 10/23/2003	39/GW 11/20/2003	40/GW 12/3/2003	41/GW 1/29/2004	42/GW 3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, ug/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	180 D	170 D	92	110	19 J	96
Trichloroethene, ug/L	2.0 DJ	10 U	1.1 J	1.6 J	5.0 U	1.0J
Toluene, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, ug/L	191	174	98	118	2	104

Sampling Event Date	43/GW 5/20/2004	44/GW 6/16/2004	45/GW 7/15/2004	46/GW 8/26/2004	47/GW 9/14/2004	48/GW 10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.5	10 D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, ug/L	5.0 U	10U	2.3 J	5.0 U	10 U	2.3 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, ug/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, ug/L	150	180 D	190	74	170 D	90
Trichloroethene, ug/L	5.0 U	10U	1.6 J	5.0 U	10U	1.1 J
Toluene, ug/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, ug/L	156	190	201	77	179	97

Sampling Event Date	49/GW 12/14/2004	50/GW 1/27/2005	51/GW 3/22/2005	52/GW 4/26/2005	53/GW 5/30/2005	54/GW 6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, ug/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 -Trichloroethane, ug/L	130	180	65	67	230	65
Trichloroethene, ug/L	1.6 J	2.2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, ug/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	55/GW 7/28/2005	56/GW 8/29/2005	57/GW 9/13/2005	58/GW 10/18/2005	59/GW 11/22/2005	60/GW 12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	10	9.5 J	2.3 J	7.1J	5.2 J	2.7 J
1,1-Dichloroethene, ug/L	4.8	3.1 J	0.64 J	1.5J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Methylene Chloride, pg/L	1.0 U	2.4 J	5.0 U	10 U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, ug/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, pg/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, pg/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event Date	61/GW 1/19/2006	62/GW 2/24/2006	63/GW 3/27/2006	64/GW 4/20/2006	65/GW 5/25/2006	66/GW 6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, ug/L	1.7 J	1.3 J	1.1 J	1.3 J	1.5J	0.94 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	5.0 U	10U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.1 BJ	5.0 U	10U	1.3J	5.0 U
1,1,1 -Trichloroethane, ug/L	170	100	110	140	160	80
Trichloroethene, ug/L	1.3J	0.87 J	0.95 J	10 J	1.2J	0.72 J
Toluene, pg/L	5.0 U	10 U	5.0 U	10 u	10U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event Date	67 7/18/2006	68 8/7/2006	69 9/14/2006	70 10/12/2006	71 11/22/2006	72 12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	16 J	12 J	4.7 J	14 J	2.3 J	1.3 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0 J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	- 89.9	153.6	60.74

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.8J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, pg/L	0.64 J	2.7 DJ	1.5 J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	10U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	1.0 DJ	10U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, ug/L	0.78 J	1.3 DJ	10U	1.1 J	1.2 J	0.67J
Toluene, ug/L	5.0 U	10U	10U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	80	81	82	83	84
Date	7/24/2007	8/22/2007	9/12/2007	10/2007	11/2007	12/2007
Field Influent pH, std pH units	7.57	7.85	7.65	NS	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NS	NS	NS
1,1-Dichloroethane, pg/L	6.6	5.9	7.1	NS	NS	NS
1,1-Dichloroethene, pg/L	5.2	1.0J	10U	NS	NS	NS
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10U	NS	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	NS	NS	NS
1,1,1 -Trichloroethane, pg/L	230 D	MOD	160	NS	NS	NS
Trichloroethene, pg/L	0.82 J	0.81J	10 U	NS	NS	NS
Toluene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	10U	NS	NS	NS
Total Confident VOCs, pg/L	242.62	147.71	167.1	NS	NS	NS

Sampling Event	85	86	87
Date	1/2008	2/2008	3/2008
Field Influent pH, std pH units	NS	NS	NS
Total Suspended Solids, mg/L	NS	NS	NS
1,1-Dichloroethane, pg/L	NS	NS	NS
1,1-Dichloroethene, pg/L	NS	NS	NS
Cis -1,2 - Dichloroethene, pg/L	NS	NS	NS
Methylene Chloride, pg/L	NS	NS	NS
1,1,1 -Trichloroethane, pg/L	NS	NS	NS
Trichloroethene, pg/L	NS	NS	NS
Toluene, pg/L	NS	NS	NS
Vinyl Chloride, pg/L	NS	NS	NS
Total Confident VOCs, pg/L	NS	NS	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	OVGW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	15 J	5.0 U	15 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3J	2.8 B,J
1,1,1 -Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, M9/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5J	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW	48/GW	49/GW
Date	12/14/2006	3/21/2007	6/27/2007	9/12/2007	12/2007	3/2008
Field Effluent pH, std pH units	8.36	8.44	8.39	8.63	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Cis-1,2- Dichloroethene, Mg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS

NA= Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
 Field Parameters
 Quarterly Sampling Event
 March 26, 2008
 "April 10, 2008
 Byron Barrel and Drum Site
 Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW25	1220	6.5	76	7.94	0.5	1.68	732
	1225	6.5	77	7.93	0.5	1.33	734
	1230	6.1	77	7.90	0.5	1.11	736
	1235	6.1	78	7.88	0.5	1.08	737
	1240	6.3	77	7.88	0.5	1.01	737
	1245	6.1	77	7.86	0.5	0.99	739
	1250	6.2	78	7.86	0.5	0.97	739
MW-4-9/GW25	1255	6.7	93	7.85	0.6	1.29	949
	1300	6.6	91	7.84	0.6	1.22	950
	1305	6.7	91	7.84	0.6	1.16	951
	1310	6.8	90	7.84	0.6	1.10	953
	1315	6.8	90	7.84	0.6	1.03	954
	1320	6.5	89	7.83	0.6	0.99	954
	1325	6.7	90	7.84	0.6	0.96	954
MW-10B-9/GW25	1140	7.5	-76	7.32	0.4	0.56	639
	1145	7.7	-78	7.20	0.4	0.52	641
	1150	7.8	-81	7.18	0.4	0.47	644
	1155	7.8	-88	7.11	0.4	0.45	645
	1200	7.8	-90	7.09	0.4	0.43	646
	1205	7.9	-92	7.08	0.4	0.40	646

Table 3
 Field Parameters
 Quarterly Sampling Event
 March 26, 2008
 April 10, 2008
 Byron Barrel and Drum Site
 Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-21-9/GW25	1010	4.5	9	7.85	1.0	5.11	1580
	1015	4.5	8	7.89	1.0	3.06	1570
	1020	4.6	7	7.91	1.0	2.89	1570
	1025	4.6	5	7.95	1.0	2.80	1560
	1030	4.7	4	7.93	1.0	2.01	1550
	1035	4.8	3	7.94	1.0	1.97	1550
PW-1/GW25	1313	7.8	-192	7.52	0.6	0.94	1007
PW-2/GW25	1230	5.1	-118	7.37	1.3	0.54	2060
*PW-3/GW25	855	8.63	47.6	6.91	N/A	1.36	683
	900	8.63	20.9	7.09	N/A	1.50	685
	905	8.64	0.9	7.20	N/A	1.63	685
	910	8.66	0.4	7.19	N/A	1.82	689
	915	8.71	2.4	7.20	N/A	1.84	689
	920	8.76	6.3	7.17	N/A	2.16	693
	925	8.76	11.0	7.16	N/A	2.44	698
	930	8.75	1.3	7.20	N/A	2.32	694
	935	8.65	3.7	7.21	N/A	2.32	695
	940	8.75	7.1	7.19	N/A	2.38	696

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

N/A = Not Available

Table 4
Groundwater Elevations
March 2008 Sampling Event
Byron Barrel and Drum Site
Byron, NY

Operator: P. LittleDate: 3/26/2008

<u>Pumping Wells</u>	TOC		GW	<u>Tp</u>	<u>wc</u> <u>ft</u>
	<u>DTW</u>	<u>Elevation</u>	<u>Elevation</u>		
PW-1	7.11	642.82	635.71	m	—
PW-2	4.19	641.34	637.15	—	m
PW-3	5.48	641.11	635.63	-	-

<u>Monitoring Wells</u>					
MW-1	4.33	639.63	635.30	11.65	7.32
MW-2	10.54	646.36	635.82	15.10	4.56
MW-4	2.99	638.56	635.57	11.50	8.51
MW-1 OB	8.68	644.44	635.76	20.35	11.67
MW-21	7.34	642.52	635.18	27.90	20.56
Residential	15.25	650.78	635.53	35.17	19.92

<u>Piezometers</u>					
PZ-1	1.45	643.11	641.66	—	N/A*
PZ-2	6.76	642.39	635.63	27.29	20.53

* Piezometer frozen at 1.45

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	5000	5000	5000	5000	5000	5000	5000	5000
		Groundwater Cleanup Levels (pg/L):			S	5	NA	5	5	5	5	2
MW-1	3/20/2002	639.63	5.24	634.39	86	49	NA	5 U	1700	2 J	5 U	2 J
	6/12/2002	639.63	5.07	634.56	81	38	NA	5 U	1600	3 J	5 U	5 U
	9/18/2002	639.63	7.15	632.48	13	13 J	NA	5 UJ	350	5 U	5 U	5 U
	12/18/2002	639.63	5.62	634.01	42	37 J	NA	25 U	1200	5 J	25 U	25 U
	4/29/2003	639.63	4.53	635.10	57	34	NA	25 U	1300 J	25 U	25 U	25 U
	6/24/2003	639.63	5.36	634.27	32	24	NA	5 U	720	4 J	5 U	5 U
	9/24/2003	639.63	6.72	632.91	24 J	17 J	NA	25 U	580	25 U	25 U	25 U
	12/3/2003	639.63	5.53	634.10	33 J	28 J	NA	40 U	860 J	40 U	40 U	40 U
	3/30/2004	639.63	3.40	636.23	30 J	31	NA	25 U	830 J	25 UJ	25 U	25 U
	6/16/2004	639.63	4.20	635.43	26	22 J	NA	25 UJ	870	25 U	25 U	25 U
	9/14/2004	639.63	4.56	635.07	28	26	NA	25 U	730	25 U	25 U	25 U
	12/14/2004	639.63	4.61	635.02	31	26	NA	25 U	760	25 UJ	25 U	25 U
	3/22/2005	639.63	4.32	635.31	41	110	NA	5 U	830	5	5 U	5 U
	6/7/2005	639.63	5.45	634.18	10 J	14 J	NA	13 J	340	50 U	50 UJ	50 U
	9/13/2005	639.63	6.89	632.74	14	16	NA	5 U	410	2 J	5 UJ	5 U
	12/20/2005	639.63	4.78	634.85	24 J	24 J	NA	40 U	580	40 U	40 U	40 U
	3/26/2006	639.63	5.07	634.56	29	24	NA	5 U	540	4 J	5 U	5 U
	6/22/2006	639.63	5.68	633.95	7	9	NA	5 U	220	2 J	5 U	5 U
	9/14/2006	639.63	5.15	634.48	5 J	6 J	NA	10 U	190	2 J	10 U	10 U
	12/7/2006	639.63	4.54	635.09	6 J	9 J	NA	10 U	170	2 J	10 U	10 U
	3/22/2007	639.63	4.19	635.44	2 J	4 J	NA	10 U	100	2 J	10 U	10 U
	6/14/2007	639.63	5.30	634.33	6	3 J	NA	5 U	200	2 J	5 U	5 U
	9/12/2007	639.63	6.56	633.07	7 J	3 J	NA	20 U	200	20 U	20 U	20 U
	12/19/2007	639.63	4.95	634.68	10	2 J	NA	10 U	200	2 J	10 U	10 U
	3/26/2008	639.63	4.33	635.30	8 J	3 J	NA	20 U	210	20 U	20 U	20 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	500 ug/L	500 ug/L	500 ug/L	500 ug/L	500 ug/L	500 ug/L	500 ug/L	500 ug/L
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-4	3/20/2002	638.56	4.79	633.77	17 J	14 J	NA	25 U	450	10 J	25 U	25 U
	6/12/2002	638.56	4.48	634.08	3 J	2 J	NA	5 U	83	8	5 U	5 U
	9/18/2002	638.56	6.04	632.52	5 U	5 UJ	NA	5 UJ	27	5	5 U	5 U
	12/18/2002	638.56	5.22	633.34	40	24	NA	5 U	200	8	5 U	5 U
	4/29/2003	638.56	4.50	634.06	31	13 J	NA	25 U	530	25 U	25 U	25 U
	6/24/2003	638.56	4.58	633.98	5 UJ	5 UJ	NA	5 U	17 J	4 J	5 U	5 UJ
	9/24/2003	638.56	5.91	632.65	35	9 J	NA	10 U	240	8 J	10 U	10 U
	12/3/2003	638.56	4.98	633.58	65	17 J	NA	20 U	550	11 J	20 U	20 U
	3/30/2004	638.56	4.15	634.41	12	5	NA	5 U	130	3 J	5 U	5 U
	6/16/2004	638.56	3.64	634.92	15 J	25 UJ	NA	25 UJ	150	25 U	25 U	25 U
	9/14/2004	638.56	3.71	634.85	11 J	25 U	NA	25 U	87	25 U	25 U	25 U
	12/14/2004	638.56	3.97	634.59	11 J	25 U	NA	25 U	67	25 U	25 U	25 U
	3/22/2005	638.56	3.55	635.01	50 U	50 U	NA	50 UJ	87	50 U	50 U	50 U
	6/7/2005	638.56	4.25	634.31	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	9/13/2005	638.56	5.84	632.72	5 U	5 U	NA	5 U	11	2 J	5 U	5 U
	12/20/2005	638.56	4.75	633.81	4 J	25 U	NA	25 U	48	25 U	25 U	25 U
	3/25/2006	638.56	4.32	634.24	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	6/22/2006	638.56	4.50	634.06	5 U	5 U	NA	5 U	9	1 J	5 U	5 U
	9/14/2006	638.56	3.92	634.64	5 U	5 U	NA	5 U	13	2 J	5 U	5 U
	12/7/2006	638.56	3.64	634.92	25 U	25 U	NA	25 U	6 J	25 U	25 U	25 U
	3/22/2007	638.56	3.24	635.32	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	6/14/2007	638.56	4.50	634.06	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	9/12/2007	638.56	5.30	633.26	5 U	5 U	NA	5 U	14	2 J	5 U	5 U
	12/19/2007	638.56	3.79	634.77	5 U	5 U	NA	5 U	16	1 J	5 U	5 U
	3/26/2008	638.56	2.99	635.57	4 J	20 U	NA	20 U	31	2 J	20 U	20 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Copper (mg/L)	Lead (mg/L)	Vanadium (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 UJ	NA	5 UJ	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/12/2007	644.44 J	10.98	633.46	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U
	12/19/2007	644.44	9.54	634.90	64 J	120 U	NA	31 J	1300	120 U	120 U	120 U
	3/26/2008	644.44	8.68	635.76	5 U	5 U	NA	5 U	8	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location (D)	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	5	5	5	5	5	5	5	5
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-21	3/26/1999	NA	NA	NA	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 U	NA	25 U	25 U	25 U	5 BJ	25 U
	9/17/2002	642.52	9.50	633.02	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	642.52	8.23	634.29	5 U	5 UJ	NA	5 U	5 UJ	5 U	5 U	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	3/30/2004	642.52	7.56	634.96	5 UJ	5 UJ	NA	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	12/19/2007	642.52	7.81	634.71	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	3/26/2008	642.52	7.34	635.18	20 U	20 U	NA	20 U	20 U	20 U	20 U	20 U
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	6/12/2002	650.78	15.62	635.16	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	9/17/2002	650.78	17.50	633.28	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	650.78	16.52	634.26	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	4/30/2003	650.78	17.74	633.04	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/30/2004	650.78	15.47	635.31	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2005	650.78	15.24	635.54	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/25/2006	650.78	15.75	635.03	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2007	650.78	15.09	635.69	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/26/2008	650.78	15.25	635.53	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	5	5	5	5	5	5	5	5
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-1	12/21/1998	NA	NA	NA	20 U	5 J	20 U	9 BJ	270	11 J	20 U	20 U
	12/27/2001	NA	NA	NA	15	6.2	5 U	5 U	280	5.2	5 U	5 U
	3/20/2002	642.82	NM	NM	11	5	5 U	5 U	320	3 J	5 U	5 U
	6/12/2002	642.82	NM	NM	18	3 J	5 U	5 U	380	2 J	5 U	5 U
	9/18/2002	642.82	NM	NM	12	2 J	5 U	5 UJ	270	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	8	5	5 U	5 U	160	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	11	2 J	5 U	5 U	180	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	12	2 J	5 U	5 U	190	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	8	5 U	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	8	2 J	5 U	5 U	150	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	150	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	380	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	10	2 J	5 U	5 U	210	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	140	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	23	5 U	5 U	200 J	2 J	5 U	5 U
	6/7/2005	642.82	21.50	621.32	10	2 J	10 U	2 U	59	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	73	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	140	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	76	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	77	0.8 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9 DJ	25 U	25 U	25 U	230	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	160	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	170	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	280	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5 J	10 U	10 U	10 U	130	10 U	10 U	10 U
	12/21/2007	642.82	7.95	634.87	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
	3/26/2008	642.82	7.11	635.71	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
pw-2 :	12/27/2001	NA	NA	NA	68	23	1.4 J	5 U	960	4 J	5 U	1.1 J
	3/20/2002	641.34	NM	NM	24	13	5 U	5 U	720	2 J	5 U	5 U
	6/12/2002	641.34	NM	NM	18	10	5 U	5 U	370	2 J	5 U	5 U
	9/18/2002	641.34	NM	NM	5	4 J	5 U	5 UJ	160	5 U	5 U	5 U
	12/18/2002	641.34	17.68	623.66	12	14	10 U	10 U	280	10 U	10 U	10 U
	4/30/2003	641.34	16.82	624.52	11	6	5 U	5 U	200	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	8	5	5 U	5 U	180	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	6	2 J	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	6	3 J	5 U	5 U	160	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	4 J	3 J	5 U	5 U	140	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	5	5 U	5 U	5 UJ	120	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	5	4 J	5 U	5 U	160	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	8	5	5 U	5 U	160	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	S	11	5 U	5 U	140	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	3 J	2 J	5 U	5 U	70	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	3 J	3 J	5 U	5 U	94 J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	1 J	5 U	5 U	5 U	30	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	5	1 J	5 U	5 U	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	4 J	2 J	10 U	10 BL	170	1 J	10 U	10 U
	9/14/2006	641.34	6.75	634.59	3 DJ	1 DJ	10 U	10 U	92	1 DJ	10 U	10 U
	12/7/2006	641.34	6.11	635.23	9 DJ	3 DJ	10 U	10 U	230	2 J	10 U	10 U
	3/22/2007	641.34	4.19	637.15	8 J	4 J	10 U	10 U	90	1 J	10 U	10 U
	6/14/2007	641.34	4.72	636.62	8 J	2 J	20 U	20 U	270	20 U	20 U	20 U
	9/12/2007	641.34	7.97	633.37	5 J	1 J	10 U	10 U	140	10 U	10 U	10 U
	12/21/2007	641.34	6.31	635.03	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
	3/26/2008	641.34	4.19	637.15	250 U	250 U	250 U	250 U	30 J	250 U	29 J	250 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	5	5	5	5	5	5	5	5
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-3	12/27/2001	NA	NA	NA	5 U	5 U	5 U	5 U	16	1.7 J	5 U	5 U
	3/20/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	8	1 J	5 U	5 U
	6/12/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	6	5 U	5 U	5 U
	9/18/2002	641.11	NM	NM	5 U	5 UJ	5 U	5 UJ	4 J	5 U	5 U	5 U
	12/18/2002	641.11	19.90	621.21	5 U	5 U	5 U	5 U	4 J	5 U	5 U	5 U
	4/30/2003	641.11	19.46	621.65	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	6/23/2003	641.11	18.55	622.56	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	9/24/2003	641.11	20.97	620.14	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/3/2003	641.11	20.28	620.83	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	3/30/2004	641.11	20.52	620.59	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/16/2004	641.11	19.65	621.46	5 U	5 U	5 U	5 UJ	2 J	5 U	5 U	5 U
	9/14/2004	641.11	20.91	620.20	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/14/2004	641.11	18.33	622.78	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	3/22/2005	641.11	22.17	618.94	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/7/2005	641.11	20.30	620.81	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	9/13/2005	641.11	21.52	619.59	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	12/19/2005	641.11	20.36	620.75	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	3/26/2006	641.11	22.31	618.80	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	6/22/2006	641.11	20.72	620.39	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	9/14/2006	641.11	6.53	634.58	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/7/2006	641.11	7.81	633.30	6 DJ	2 DJ	5 U	5 U	170	1 J	5 U	5 U
	3/22/2007	641.11	5.45	635.66	7	4 J	5 U	5 U	210	1 J	5 U	5 U
	6/14/2007	641.11	5.18	635.93	9 J	3 J	20 U	20 U	260	20 U	20 U	20 U
	9/12/2007	641.11	7.73	633.38	4 J	1 J	10	10	130	10 U	10 U	10 U
	12/21/2007	641.11	6.23	634.88	NA	NA	NA	NA	NA	NA	NA	NA
	4/10/2008	641.11	5.48	635.63	0.9 J	5 U	5 U	5 U	24	5 U	5 U	5 U

Notes:

All concentrations in micrograms per liter (ug/L)

Exceedences of the groundwater cleanup standard are indicated in bold.

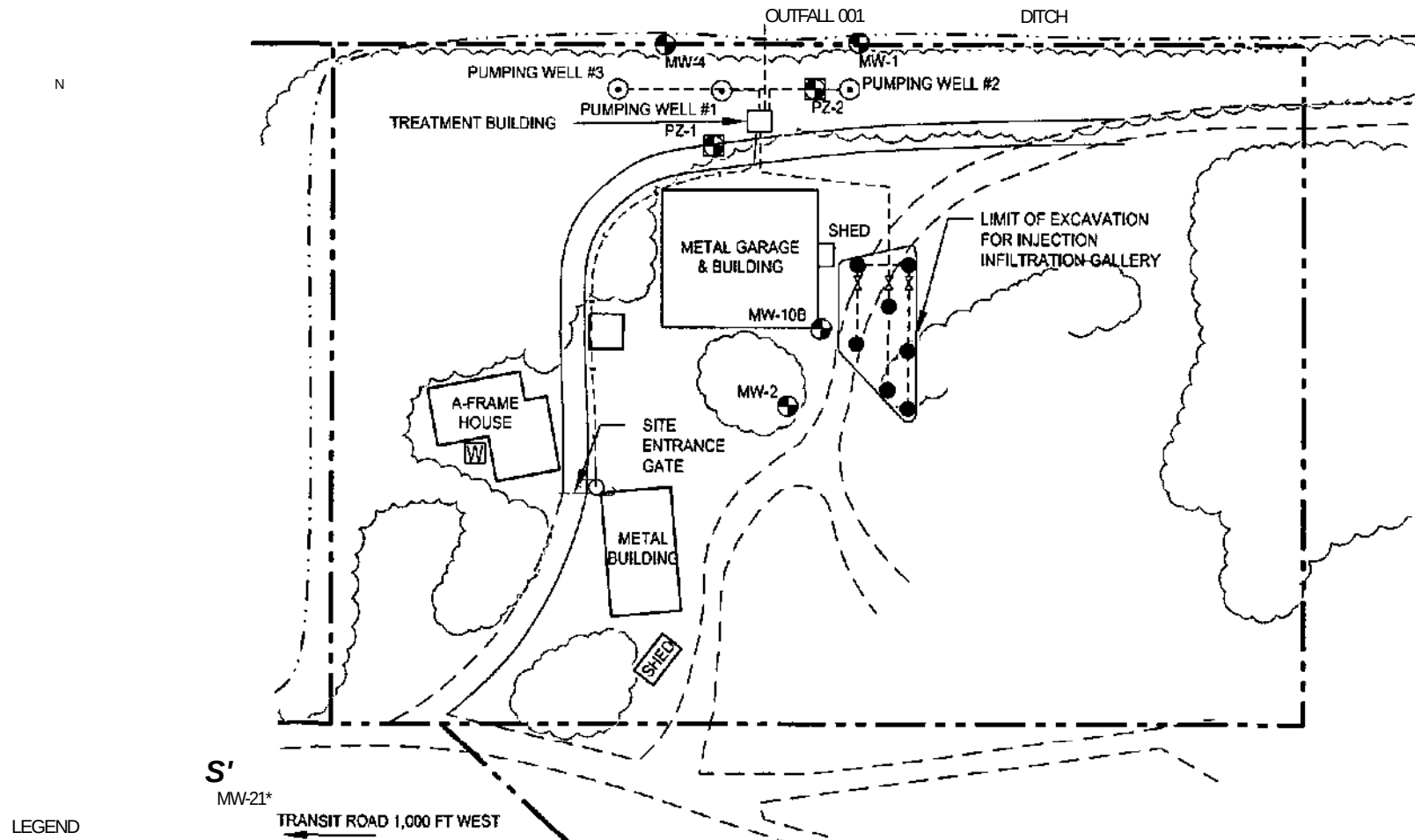
NM = Not Measured

NA = Not Available

Table 6
Schedule of Sampling and Analysis for 2008
Byron Barrel and Drum Site
Byron, NY

Month	Event	Wells to be Sampled	Constituents to be Analyzed
March 2008	First Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential PW-1 PW-2	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
June 2008	Second Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
September 2008	Third Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
December 2008	Fourth Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride

FIGURES



LEGEND

MONITORING WELL

FORMER RESIDENTIAL WELL

PIEZOMETER WELL

INJECTION GALLERY PIEZOMETER WELL

INJECTION GALLERY VALVE

©

PUMPING WELL

UTILITY POLE

PROPERTY LINE

FENCE

TREELINE

NEW GRAVEL ROAD

PRE-EXISTING GRAVEL ROAD

DITCH

ELECTRIC & PHONE LINE

REINJECTION PIPING

SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions

1075 Andrew Drive, Suite 1, West Chester, PA 19380

SCALE IN FEET

DATE

FIGURE

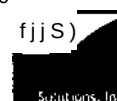
fjjS)

80

07-25-06

1

*NOTE- MW-21 IS 100 FEET WEST OF PROPERTY LINE
SOURCE: ERM&O SERVICES



0
WELL NO. 1
1/3 HP

©
WELL NO. 2
1/3 HP

©
WELL NO. 3
1/3 HP

-C»0-

-D*3-I>-

H»CH>-

TO REINJECTION (OR)
SURFACE DISCHARGE

-C*3-

<®
REINJECTION
PUMP
2 HP

TO SURFACE DISCHARGE
OUTFALL 001

BAG FILTER

AIR OUT
r ^ ^

TO ATMOSPHERE

H h

AIR
STRIPPER

rf&H

AIR IN _____

150 CFM
&
BLOWER
3 HP

LEGEND

rtfo	SAMPLING PORT
a	REDUCER
i>	CHECK VALVE
IH	FLANGE FITTING
r^j	BUTTERFLY VALVE
D*3	BALL VALVE
_____	AIR LINE
_____	PROCESS PIPING

GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions

1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE

FIGURE

80

09-02-05

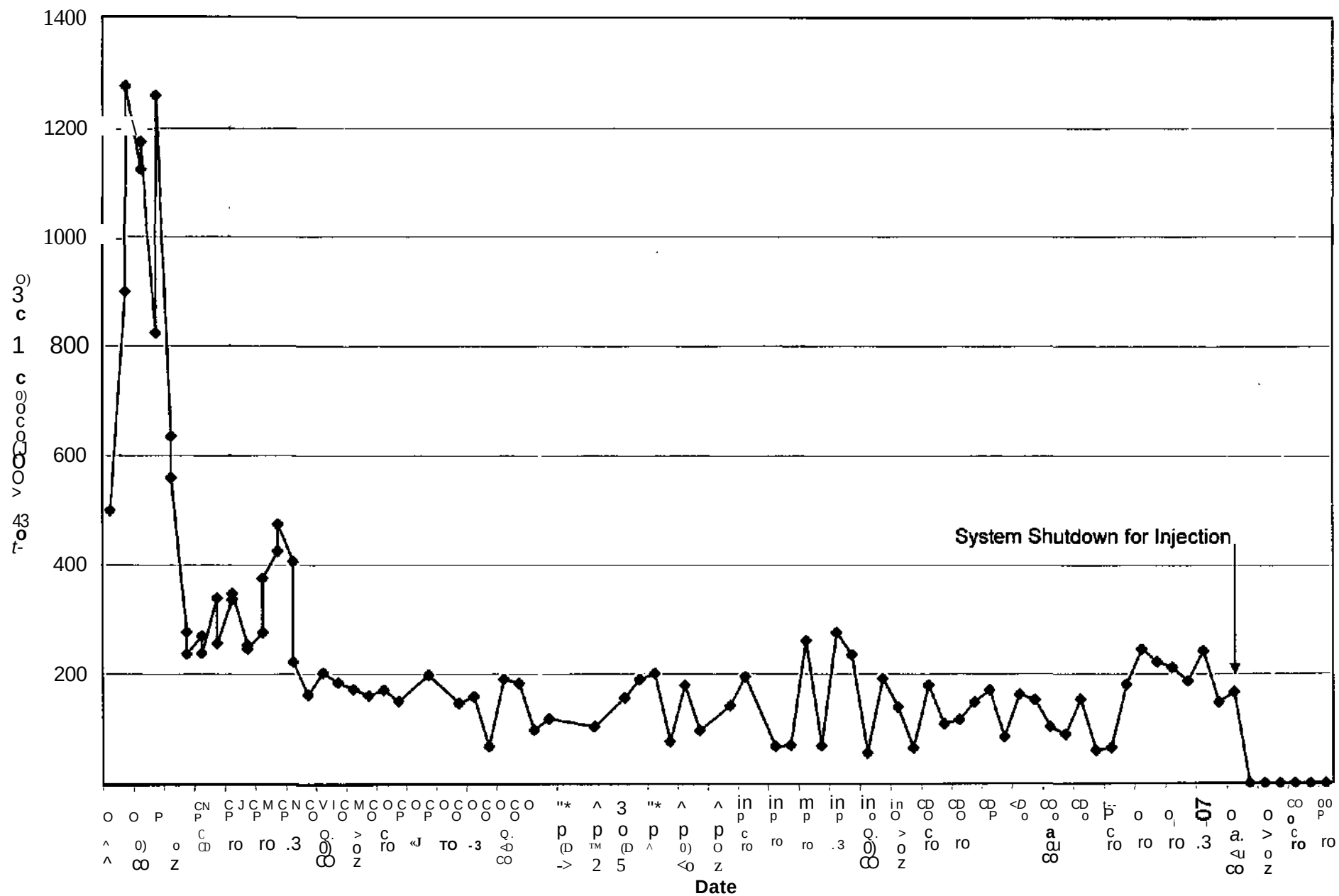
2



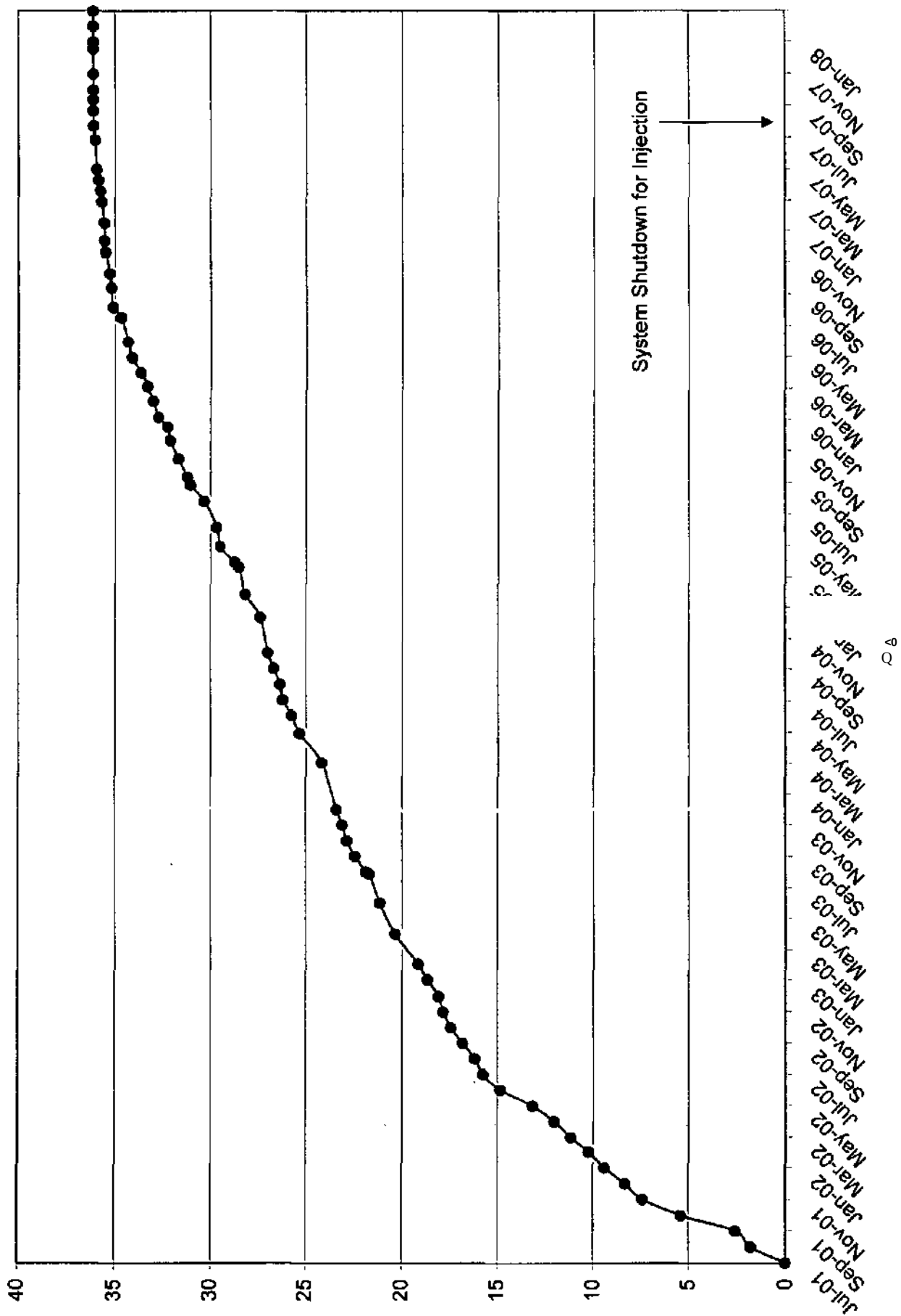
^mR SmKns, m^

figure3

Influent VOC Concentration vs. Time
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY



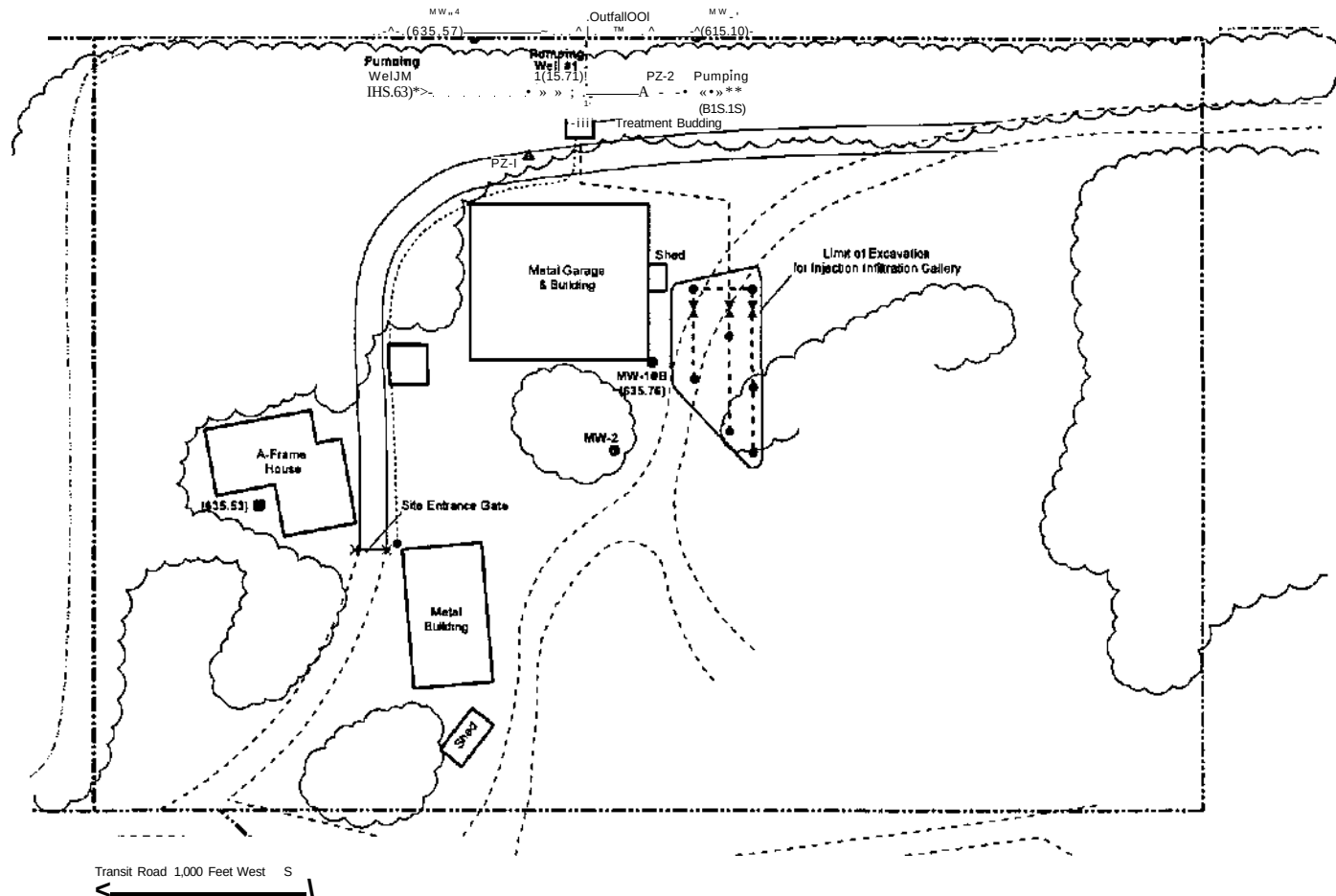
T3
 >O
 E
 ££ £ E
 (D) °- 0 Z
 ~ TM S
 > 8 61-
 CM ∞ m
 >.m
 E -> e
 a >.
 CD



Legend

- 9 Moratoning Well
- Former Residential Wall
- A Piezometer Well
- Pumping Wei
- Injection Cattery Piezomate' Wgl
- Utility Polo
- X Injection Gallery Verve
- (S35.27) Potentm metric Elevation (teet)
- Reinjection Piping
- Electric and Phone Line
- Tree line
- Ditch
- New Gravel Road
- Pra-Existirin Gravel Road
- X— Fence
- property Line

SO N
W-?>

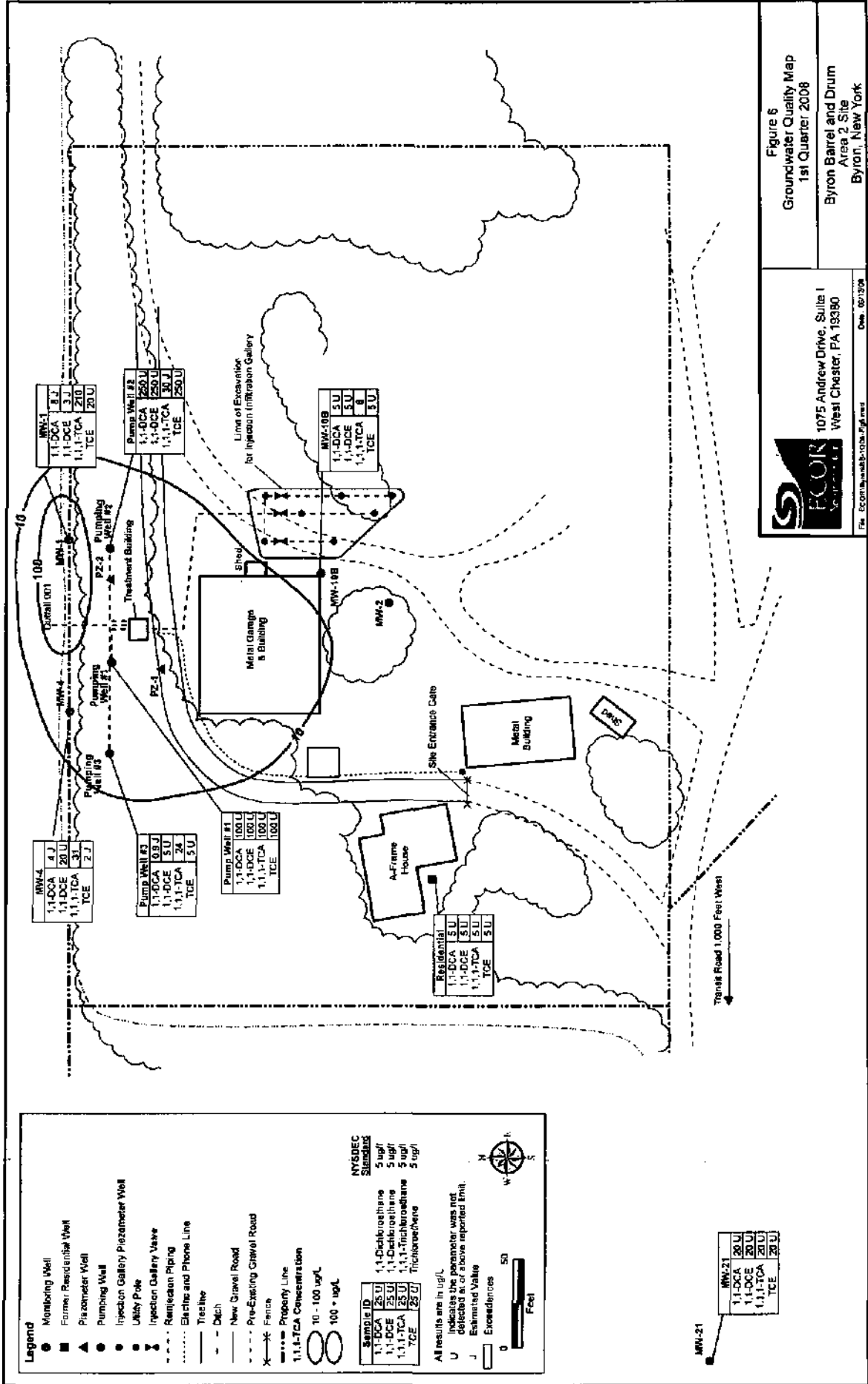


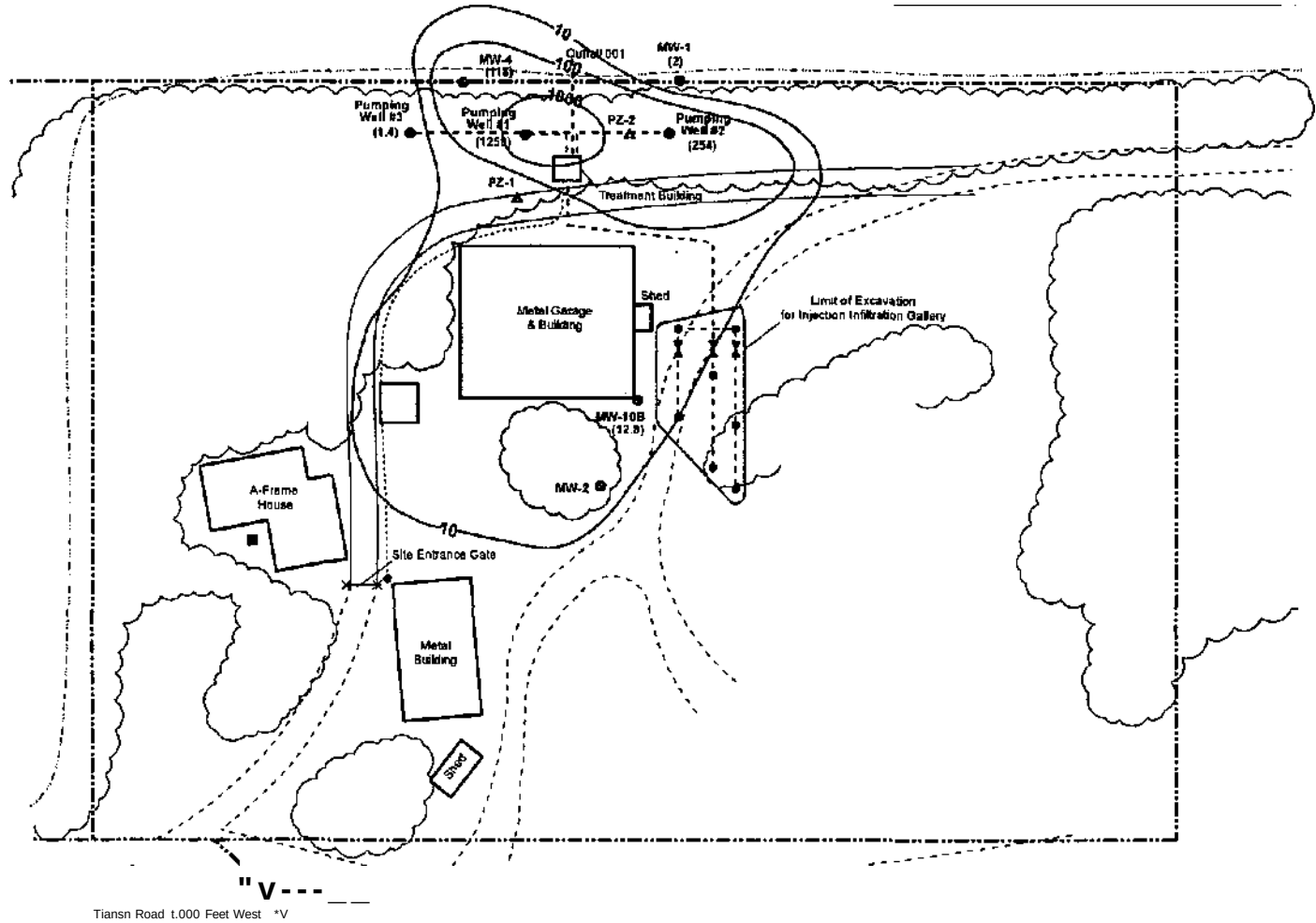
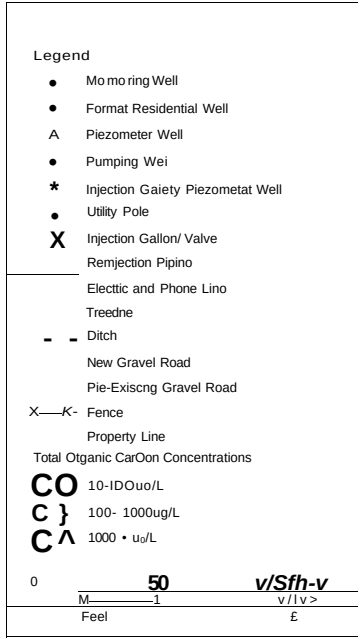
KCOR 1075 Andrew Drive, Suite I
West Chester, PA 19380

RH ECORISrIB=BS-IQI=FigJnid

Figure 5
Potentiometric Elevations
March 26, 2008

Byron Barrel and Drum
Area 2 Site
Byron, New York





MW-21

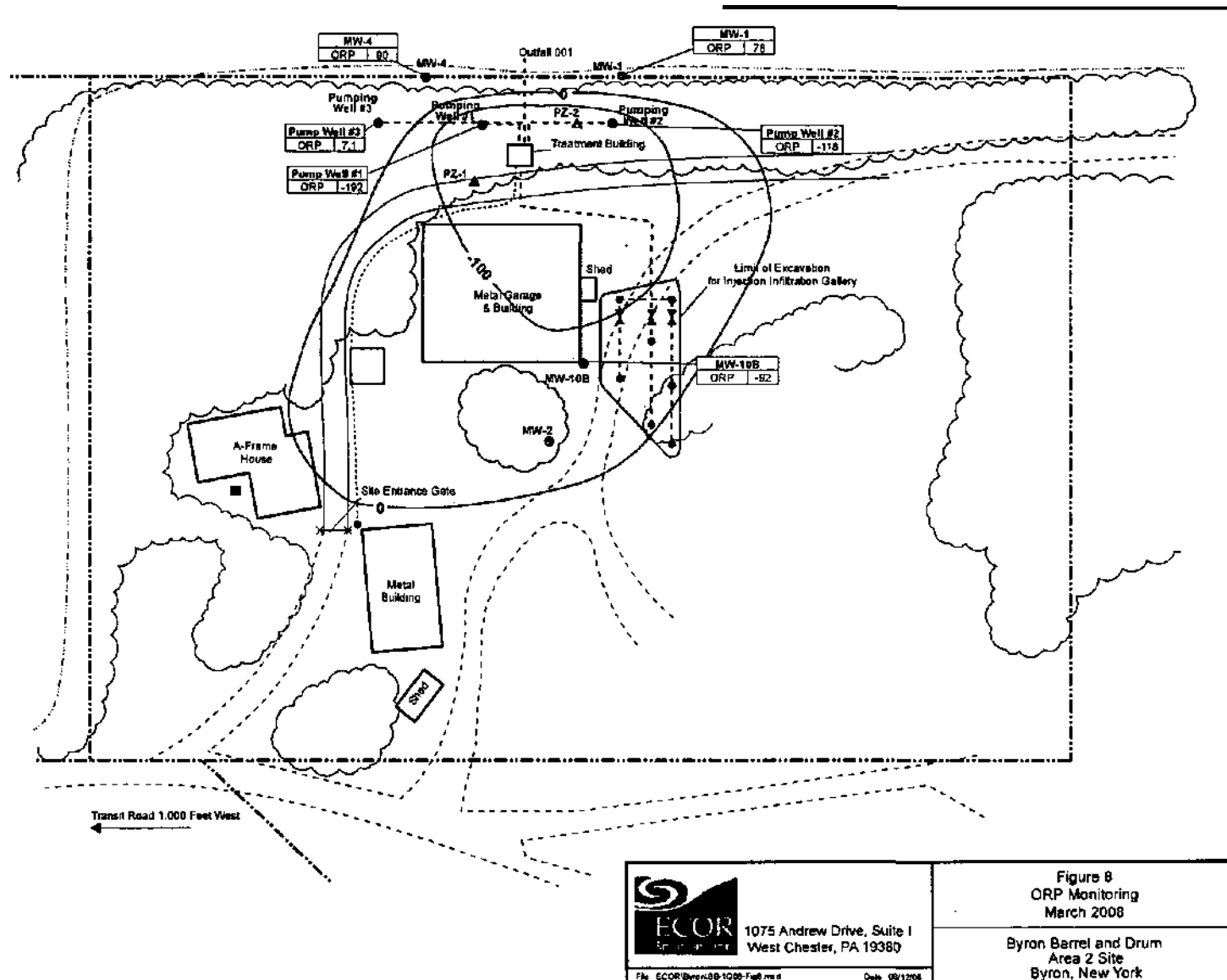
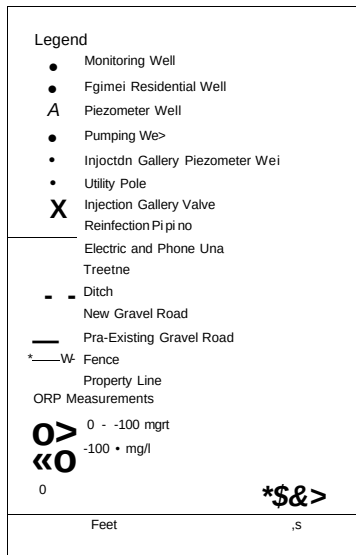
Tiansn Road 1,000 Feet West *V



1075 Andrew Drive, Suite
West Chester, PA 19380

File: ECOfillByio*ES-IQCH-nj/mO

Figure 7
Total Organic Carbon Concentrations
in Groundwater
March 2008
Byron Barrel and Drum
Area 2 Site
Byron, New York



APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator: fflvL tffHc

Date: 3 - 2 * - ^

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	WC.a
PW-1	7 < "	642.82	<u>dsr.it</u>	.	·B
PW-2	W ?	641.34	£27 J^	»	m
PW-3	g,YS	641.11	Qzf-SZ	•	m

Monitoring Wells					
MW-1	tf 33	639.63	£ir _t io	ll.tf	7 . «
MW-2	/£>,sy	646.36	£2s.ex	IS. to	# r <
MW-4	2.91	638.56	£jS~,S7	//.•T©	6* si
MW-1 OB	0,te	644.44	£tf.7C	aeyf	/f.tn
MW-21	n ^	642.52	fir./e	2,7.9*	•?o.X^
Residential	jsiar	650.78	£** .S3	3s. n	/? . fz

Piezometers	^				
PZ-1	<i>hvr</i>	643.11	£j**''		*
PZ-2	£.7*	642.39	&&C3	•27.Af	ao.*3

^j?_Z-/0 Z⁵ * ^ ^ ' . VJ

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
PW-1/GW<2-V^	1313	7 ^	-f<?i	1.SZ.	Q.C	-?/	t*><=>!
PW-2/GWoZy	ia5o	^7/	-ti&	/'J->	/ J	M	306&
PW-3/GW							

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date:** 11/11/2011

Job #: 01501.002

Sample ID: 11/11/2011

Well ID: S1 Time onsite: Time Offsite:

Samplers: 11/11/2011 11/11/2011

Depth of Well (from top of casing) 11.6 J" Time: 0f°

Static water level (from top of casing) H23 Time: t*0

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate(mL/mln)/ purge volume (mi)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011
W 11	1	S.1	7 1	-7.9J	*s~	1.13	13 y
1220		C.i	7?	n*<To	'S"	1-f/	~73£
12.2 \$~		t.t	ye	1-ga	*r	1.06	131
1*9*		6-3	11	J.88	,5 ""	h*'	121
ayjr	1	£.t	11	7.B6	.f	0**1	~?2f
ns°	1	. * ' * :	13	7,ec	<f	e>Jl	-yjf

Sampling:

Time of Sample Collectio_ **a***
Collection Method: *Analyses:* *Analytical Method:*
X Dedicated pump X VOCs B260 X 503 Other

Observations:

Weather/Temperature: Jv«J J3
Sample Description: cf*1*_-
Free Product? Yes No < Descript.:
Sheen? Yes No < Descript.:
Odor? Yes No *< Descript.;

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: 3>2€**&

Job #: 01501.002

Sample ID: AwV~<?/&t~'X%-

Well ID: fWiss-'J Time onsite: Time Offsite:

Samplers: ^.Lt^ sT*/?*^_* / g v r / y*T

Depth of Well (from top of casing) JLE& Time: ljif

Static water level (from top of casing) ^?. ff Time: /py^'''

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/m'm) / purge volume (mL)	Temp. °C	ORP mV	PH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
<i>jSLsrr</i>	<i>tfo. **^ /**''</i>	<i>Cl</i>	<i>fj?</i>	<i>-y.esr</i>	<i>0.t</i>	<i>l,*i</i>	<i>Wf</i>
<i>tf*°</i>		<i>a</i>	<i>g'</i>	<i>ysY</i>	<i>* i</i>	<i>M 2.</i>	<i><?S~&</i>
<i>» "</i>		<i>61</i>	<i>ft</i>	<i>i?y</i>	<i>a.£></i>	<i>/»/£</i>	<i>f j r /</i>
<i>no?</i>		<i>£&</i>	<i><jO</i>	<i>l&Y</i>	<i>0.C</i>	<i>f.to</i>	<i>ff-J</i>
<i>rin"</i>		<i>£.3</i>	<i>f?</i>	<i>isi</i>	<i>6.6</i>	<i>i.oj</i>	<i>?jry</i>
<i>/3a^»</i>		<i>t-r</i>	<i>8*?</i>	<i>y.ts</i>	<i>&*C</i>	<i>0*?f</i>	<i>?rV</i>
<i>/jh/</i>	<i>•4/</i>	<i>£-i</i>	<i>lo</i>	<i>7<#y</i>	<i>ffrC</i>	<i>0*96</i>	<i>?s-y</i>

Sampling:

Time of Sample Collection 1/3/21

Collection Method:

X Dedicated pump

Analyses:

X VOCs

Analytical Method:

8260 X 503 Other.

Observations:

Weather/Temperature: Sunny 30 °C

Sample Description: Clear

Free Product? Yes No <X Descript.:

Sheen? Yes No < Descript.:

Odor? Yes No << Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barret & Drum Site
Field Sampling Record Form

li& -'.

Site: Byron Barrel and Drum

Date: 3-21~08

Job #: 01501.002

Sample ID: /AW led- *f /C%AS -3J'

Well ID: />ttL//oS

Time onsite: Time Offsite:

Samplers: rfi,/M 7-./Vt^w

Depth of Well (from top of casing) 2&>3y

Time:

Static water level (from top of casing) &.t\$

Time:/<<<

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS	DO mg/L	Spec. Cond. mS/cm
//yo	^ A * // H W	n-<	^	~?,3Z	-j	0>&	£2<T
tw		i.n	^1\$	1<2*	, /	o.y*.	£ y/
tlsv	¹	7.0	*ei	~?.t\$	- /	,<r>	{?¥
n*r		1,8	.*\$8	7'//	• /	0'</y	cyjr
\2oo		7.8	-?0	7-"?	<y	£>,Y3	tryt
lief	J	1-1	~?^	-7*06	>Y	6<¥0	£w

Sampling:

Time of Sample Collection '2°>-

Collection Method:

☒ Dedicated pump

Analyses:

☒ VOCs

Analytical Method:

8260 ☒ 503 Other

Observations:

Weather/Temperature: *J-**, J&*

Sample Description: *cA*

Free Product? Yes No sK Descript.:

Sheen? Yes No **l Descript.:

Odor? Yes N o ^ Descript:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: 3/2/2013

Job #: 01501.002

Sample ID: 1501-002-01

Well ID: MM33/ Time onsite: Time Offsite:

Samplers: 1501-002-01 jo&& n>*n

Depth of Well (from top of casing) -27- i» Time: 1Q^1

Static water level (from top of casing) "7. ?V Time: /***7

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/u	DO mg/L	Spec. Cond. mS/cm
1Q10	* • » * " / / » -	* / , r	9	n. sr	ho	s- / t	ise°
jo/f	1	i<	e	7.61	ho	3-°6	IT~?0
16*0		?°c	7	7. v	ho	261	fSio
loir		# *	j T	-?.ir	ho	3. e°	IS~6&
foi°		in	y	J 93	ho	Z.o/	/ rso
fwr	\ ,	1*	3	l.*Y	ho	h*?"j	/rst>

Sampling:Time of Sample Collectto JO 3 <^

Collection Method:

X Dedicated pump

Analyses:

X VOCs

Analytical Method:

8260 X 503__Other

Observations:Weather/Temperature: gy/i 31Sample Description: £4rrr*^y &* ' o**~<* r>*-rFree Product? Yes _____ No J^ Descript: _____Sheen? Yes _____ No ** Descript: _____Qdor? Yes _____ No ^ Descript: _____. _____. _____.**Comments:**

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: 3-2 f -*&

Job #: 01501.002

Sample ID: //)** - ^ ^ i A / - f /{t*~j. r

Well ID: fly toe**** f Time onsite; Time Offsite:

Samplers: y ^ / z / A - f 7 ^ / ? di*^ - /osk /p <

Depth of Well (from top of casing) 3S*f Time: //>*

Static water level (from top of casing) /yr?* - ~ Time: / *sl

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmin) / purge volume (mL)	Temp. °C	ORP mV	pH 3td. Units	TDS	DO mg/L	Spec, Cond. mS/cm
<i>ll Co</i>	V<?, At/it,	^r	-WY	7-<f*	.A	.?.?	?0°
<i>)lt>T</i>		<£r	- / y 7	njX	-X	.£Z	2-f?
<i>ll 10</i>		£.1	~/So	7-7?	.X	.73	Xff
<i>,./r</i>		a	* f°	7-7 *	.1	, **	2*e
<i>ttZo</i>		tn	* r/	7-77	, A	.^7	298
<i>nzsR</i>	N/	(-8	~i?X	7-77	,X	, *r	2<?8

Sampling:

Time of Sample Collectio_ **H2<**

Collection Method:

X Dedicated pump

Analyses:

X VOCs

Analytical Method:

8260 X 503 Other

Observations:

Weather/Temperature: SQ^J 3f

Sample Description: QK<^

Free Product? Yes **NO y** Descript.:

Sheen? Yes No A Descript.:

Odor? Yes No I Descript.:

Comments:

*tfuf fd**^ & **''''**'*

Project Site Name:
Project No.: 01^01. jo-L-_____

Sample ID No.: PVI'3>
Sample Location: fjjff, <<M
Sampled By: ^ftifrF

SAMPLING DATA:

Date: * / | P | ? V
Time: O ^ Q
Purge Method: -ft/1

FINAL VALUES:

Color	Ph	S.C.	Turbidity	DO	Temp	ORP
(Visual)	(Standard)	(mS/cm)	(NTU)	(mg/l)	CO	(MV)
CJfoC	7.W	°fc>>fe	~MEL	2.38	* ? S	?,

PURGE DATA:

Date: t//io|Q8
Purge Method: -P&O.
PID Reading (ppm): _____
Well Casing Diameter & Material: d^pMC
Total Well Depth (TD): t l . f g '
Static Water Level (DTW): E . ^ / 5
Start Purge (hrs): Of r S ' O
End Purge (hrs): Cft HO
Total Purge Time (min): 50
Total Vol. Purged (gal/L): v to ^

Purge Calculations:

1": 0.04080	6": 1.46869
2": 0.16319	8": 2.61101
3": 0.36717	10": 4.07970
4": 0.65275	12": 5.67477

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL CG	
TOC	-Ha-HyS^	40 mL CG	

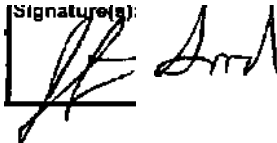
OBSE RVATIONS/NOTES:

I8<< u^uo - n o C

Circle if Applicable:

MS/MSD

Duplicate ID No.

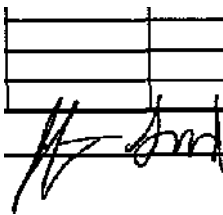
Signature(s):


PURGE DATA SHEET

ECOR
Solutions Inc.

Date: fllofog
Sample IP No.: f^-/?

Time	Water Level	Flow	pH	Cond.	Turb.	DO	Temp.	ORP	Comments
(hrs)	(ft. below TOC)	(mL/min)	(SU)	(mS/cm)	(NTU)	(mg/L)	(Celsius)	(mV)	
Target drawdown £0.3'									
		~m4e%*	tO. 1 unit	±3%	±10%, >1 NTU	±10%	±3%	±10 mV	Stability reached when 3 consecutive readings are within flil's range
Q?5>	SJL	\500	Jfi^i	O.fa*^	:M>	L.*M*	&E>	H**I*	
12a	nn		?..o^	0,05	2217	!..#>	i	zfl,1	4 %A
fcS			7.13	o,W5	^	Sthu	IL55	A £	I ^ L
Wo	*<*>		^4	Ovico-	3.H0	CM	flkb.	J U	
			?..7o	q r ^	>M	MV	£ili	^3.	*- '* W
oqz6	S.g*		3>\"3-	0 ^	EH	^..^	v2	tuó	-V \"^^r
Qq^o			-£il<^>	a.fet	?..<*	£,32-	SYT?\"	^3 L	
0 ^ ^			T I T	O.W	TT*?^1	ZT32T	S.fcsr	ij	T^T^
QTVo			ill	0--M(t	HE	2^EL	^±5L	?.. \	

Signature(s): 

APPENDIX B
Data Validation Report

Project: Byron Barrel and Drum Site
Laboratory: Test America
Sample Delivery Group: A08-3002/A08-3861
Fraction: Organic
Matrix: Aqueous
Report Date: 6/8/2008

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Test America.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

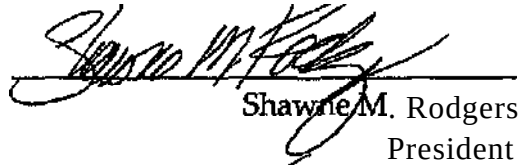
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HW-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

X	»	Data Completeness
X	»	Chain of Custody Documentation
X	»	Holding Times
X	•	Instrument Performance
X	»	Initial and Continuing Calibrations
X	>	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	»	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	i	Field Duplicate Analysis Results
X	»	Laboratory Control Sample Results
X	»	Internal Standard Performance
X	»	Qualitative Identification
X	>	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:


Shawne M. Rodgers
President

6/19/2008

Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 ***MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY***

All criteria were met. No qualifiers were applied.

9.0 ***FIELD DUPLICATE RESULTS***

Duplicate samples MW21-9-GW-25 and DUP-9-GW25 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pah-results. Results for the duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds to evaluate aqueous field duplicate samples

10.0 ***LABORATORY CONTROL SAMPLE RESULTS***

All criteria were met. No qualifiers were applied.

11.0 ***INTERNAL STANDARD PERFORMANCE***

All criteria were met. No qualifiers were applied.

12.0 ***QUALITATIVE IDENTIFICATION***

All criteria were met. No qualifiers were applied.

13.0 ***QUANTTTATION/REPORTING LIMITS***

The following samples were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target

compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

<u>Sample</u>	<u>Dilution Factor</u>
MW-1-9/GW-25	4.0
MW-21-9/GW-25	4.0
MW-4-9/GW-25	4.0
PW-1/GW-25	20.0
FW-2/GW-25	50.0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates LT, IIA, and ITJ, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

**Table 1 Samples For Data Validation Review
Byron Barrel and Dram Site
Groundwater Samples Collected March 2008
Severn Trent Laboratories Sample Delivery Group A08-3002**

SAMPLE I.D.	LABORATORY I.D		DATE COLLECTED	MATRLX	ANALYSES PERFORMED	
					VOC	TSS
Trip Blank	A83002	1	3/26/2008	Trip Blank	X	
MW-1-9/GW-25	A83002	2	3/26/2008	Groundwater	X	
MW-4-9/GW-25	A83002	3	3/26/2008	Groundwater	X	
MW-10B-9-/GW-25	A83002	4	3/26/2008	Groundwater	X	
MW-21-9/GW-25	A83002	5	3/26/2008	Groundwater	X	
MW-Residential-9/GW-25	A83002	6	3/26/2008	Groundwater	X	
PW-1/GW-25	A83002	7	3/26/2008	Groundwater	X	X
PW-2/GW-25	A83002	8	3/26/2008	Groundwater	X	X
DUP-9/GW-25	A83002	9	3/26/2008	Groundwater	X	

VOC: Volatile Organic Compounds

TSS: Total Suspended Solids

Table 1 Samples For Data Validation Review
 Byron Barrel and Drum Site
 Groundwater Samples Collected April 2008
 Test America Laboratories Sample Delivery Group A08-3861

SAMPLE LD.	LABORATORY		DATE COLLECTED	MATRDC	ANALYSES PERFORMED	
					VOC	MISC
PW-3	A83861	1	4/10/2008	Groundwater		
TB-1	A83861	2	4/10/2008	Trip Blank		

VOC: Volatile Organic Compounds
 MISGTOC

Table 2 Field Duplicate Sample Results for Organic Analyses
DupUcate Samples MW-1-9/GW-25 and DUP-9/GW-25

	MW-1-9/GW-25 (ug/L)		DUP-9/GW-25 (ug/L)	RPD	Comments
1,1-Dichloroethane	8	J	ND	NC	
1,1-Dichloroethene	3	J	ND	NC	
1,1,1-Trichloroethane	200		ND	NC	

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ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-25

Lab Name: TestAmsrica Laboratories Inc. Contract:

Lab Code: REQJY Case Nb.: SAS No.: SDGNb.:Matrix: (soil/water) WATER Lab Sample ID: A8300201Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2517.RRLevel: (low/med) LOW Date Sairp/Recv: 03/26/2008 03/26/20Q8% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/30/2008GC Column: 2B-624 ID: 0.18 (nm) Dilution Factor: 4.00

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

Oa^CEWtRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
75-34-3	1,1-Dichloroethane	8	J	
75-35-4	1,1-Dichloroethene	3	J	
75-09-2	Methylene chloride	20	U	
108-88-3	Toluene	20	U	
71-55-6	1,1,1-Trichloroethane	210	U	
79-01-6	Trichloroethene	20	U	
75-01-4	Vinyl chloride	20	U	
71-43-2	Benzene	20	U	
1330-20-7	Total Xylenes	60	U	
108-90-7	Chlorobsnzene	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
107-06-2	1,2-Dichloroethane	20	U	
127-18-4	Tetrachloroethene	20	U	
67-66-3	Chloroform	20	U	
75-27-4	Brcmodichloromethane	20	U	
124-48-1	Ditaxrrochloromsthane	20	U	
78-93-3	2-Butanone	40	U	
56-23-5	Carbon Tetrachloride	20	U	
95-50-1	1,2-Dic^orobenzene	20	U	
106-46-7	1,4-Dic^lorobenzene	20	U	

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

DUP-9/GW-25

Lab Name: TestAmerica Laboratories Inc. Contract:

Lab Cbde: REOJY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A8300208Sample wt/vol: 5.00 (g/iriL) ML Lab File ID: S2510.RRLevel: (low/med) LOT Date Samp/Recv: 03/26/2008 03/26/2008% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/30/2008GC Column: ZB-624 ID: 0.18 firm Dilution Factor: 1.00

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

aaSCQTO&TiaN UNITS:
(ug/L or ug/Kg) U3/L

CAS NO.	OCMPOUND		
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-01-6	Trichloroethene	5	u
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	Bromochloroethane	5	u
124-48-1	Dibromochloroethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-10B-9/GW-25

Lab Name: Tetra-nimHrst Laboratories Inc. Contract:

Lab Code: RECNY Case No.: SAS No.: SDGNb.:

Matrix: (soil/water) WRIERlab Sample ID: A8300203Sample wt/vol: 5.00 (g/mL) MLlab File ID: S2531.RRLevel: (lcw/med) LOWDate Samp/Recv: 03/26/2008 03/26/2008

% Moisture: not dec. _____ Basted Purge: N

Date Analyzed: 03/31/2008GC Column: ZB-624 ID: 0.18 (mm)Dilution Factor: 1-00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CGNCEWIRATION UNITS:

CAS NO.	CCMPCOJD	(ug/L or ug/Kg> <u>UG/L</u>	Q
75-34-3	1,1-Dicbloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	u
108-88-3	Toluene	5	u
71-55-6	1,1,1-Trichloroethane	8	
79-01-6	Trichloroethene	5	u.
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	Bromodichloromethane	5	u
124-48-1	Dibromodichloromethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-21-9/GW-25

Lab Name: Te3tAmerica Laboratories Inc. Contract:Lab Code: RBCNY Case No.: _____ SAS No.: _____ SDGNo.: _____Matrix: (soil/water) WATERLab Sample ID: A8300204Sample wt/vol: 5.00 {g/mL} MLLab File 3D: S2514.RRLevel: (low/med) LOWDate Sanp/Recv: 03/26/2008 03/26/2008

% Moisture: not dec. _____ Heated. Purge: N

Date Analyzed: 03/30/2008GC Column: ZB-624 3D: 0.18 (nm)Dilution Factor: 4.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CCNCENTRATICN UNITS:

CAS NO.	COMPOUND	(ug/L or ug/K&)	UG/L	Q
75-34-3	1,1-Dichloroethane	20	U	
75-35-4	1,1-Dichloroethene	20	U	
75-09-2	Methylene chloride	20	U	
108-88-3	Toluene	20	U	
71-55-6	1,1,1-Trichloroethane	20	U	
79-01-6	Trichloroethene	20	U	
75-01-4	Vinyl chloride	20	U	
71-43-2	Benzene	20	U	
1330-20-7	Total Xylenes	60	U	
108-90-7	Chlorobenzene	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
107-06-2	1,2-Dichloroethane	20	U	
127-18-4	Tetrachloroethene	20	U	
67-66-3	Chloroform	20	U	
75-27-4	Bromodichloromethane	20	U	
124-48-1	Dibromodichloromethane	20	U	
78-93-3	2-Butanone	40	U	
56-23-5	Carbon Tetrachloride	20	U	
95-50-1	1,2-Dichlorobenzene	20	U	
106-46-7	1,4-Dichlorobenzene	20	U	

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 AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
 ANALYSIS DATA SHEET

Client No.

MW-4-9/GW-25

Lab Name: TestAroarica Laboratories Inc. Contract:

Lab Code: RECNY Case No.: SSS No. SDGNb.:

Matrix: (soil/water) WATER Lab Sample ID: A8300202Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2516.RRLevel: (low/mad) IO? Date Sanp/Recv: 03/26/2008 03/26/2008% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/30/2008GC Column: 2B-624 ID: 0.1S (nm) Dilution Factor: 4.00

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

COraENTRKFH UNITS:

CAS NO.	COMPOUND	(ug/L or VQ/g)	<u>13G/L</u>	Q
75-34-3	1,1-Dichloroethane	4	J	
75-35-4	1,1-Dichloroethene	20	U	
75-09-2	Methylene chloride	20	U	
108-88-3	Toluene	20	U	
71-55-6	1,1,1-Trichloroethane	31		
79-01-6	Trichloroethene	2	J	
75-01-4	Vinyl chloride	20	U	
71-43-2	Benzene	20	U	
1330-20-7	Total Xylenes	60	U	
108-90-7	Chlorobenzene	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
107-06-2	1,2-Dichloroethane	20	U	
127-18-4	1,1,2,2-Tetrachloroethane	20	U	
67-66-3	Chloroform	20	U	
75-27-4	Bromochloroethane	20	U	
124-48-1	Dibromochloroethane	20	U	
78-93-3	2-Butanone	40	U	
56-23-5	Carbon Tetrachloride	20	U	
95-50-1	1,2-Dichlorobenzene	20	U	
106-46-7	1,4-Dichlorobenzene	20	U	

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-RESIDEm-9/GW-25

Lab Name: TestAmerica laboratories Inc. Contract:Lab Code: REQJY Case No. -. _____ SAS No.: _____ SDGNb.: _____Matrix: (soil/water) WATERLab Sample ID: A8300205Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: S2513.RR

Level: (low/med) LOWDate Samp/Recv: 03/26/2008 03/26/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 03/30/2008GC Column: ZB-624 ID: 0.18 (mm)

Dilution Factor: _____ 1.00

Soil Extract Volume: _____ CuL)

Soil Aliquot Volume: _____ (UL)

CaCENTRATiaN UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichlorosthene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	"Chlorobenzene	5	U
79-00-5	1,1,2-Tridiloroetbane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachlorcethene	5	U
67-66-3	Chloroform	5	U
75-27-4	Brcmdic^oxoniethane	5	U
124-48-1	Dibi-u luchlororethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbco Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
106-46-7	1,4-Dic^orobenzene	5	U

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 ANALYSIS DATA SHEET

Client No.

EW-I/OT-25

Lab Name: TestAmerica Laboratories Inc. Contract:lab Code: RBCWy Case No.: _____ SAS No.: _____ SDGN6.: _____Matrix: (soil/water) t/vrSftLab Sample ID: A8300206Sample wt/vol: 5.00 (g/iriL) fgjLab File ID: S2530.RRLevel: (low/med) LOWDate Sarrp/Recv: 03/26/2008 03/26/2008

% Moisture: not dec. _____ Heated Purge: N.

Date Analyzed: 03/31/2008GC Column: ZB-624 ID: 0.18 (nm)Dilution Factor: 20.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UfITS:

CAS NO.	COMPOUND	(ug/L or ug/K£)	TJG/L	Q
75-34-3	1,1-Dichloroethane		100	u
75-35-4	1,1-Dichloroethene		100	u
156-59-2	cis-1,2-Dichloroethene		100	u
75-09-2	Methylene chloride		100	u
108-88-3	Toluene		100	u
71-55-6	1,1,1-Trichloroethane		100	u
79-01-6	Trichloroethene		100	u
75-01-4	Vinyl chloride		100	u

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 AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
 ANALYSIS DATA SHEET

Client No.

PW-2/GW-25

Lab Name: TestAmerica laboratories Inc. Contract:Lab Code: REOtr Case No.: _____ SAS No.: _____ SD3No.: _____Matrix: (soil/water) WATERLab Sample ID: A83Q0207Sample wt/vol: 5.00 (g/mL) MLLab File ID: S2529.RRLevel: (low/mad) LOWDate Sanp/Recv: 03/26/2008 03/26/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 03/31/2008GC Column: ffl-624 ID: 0.18 (nm)Dilution Factor: 50.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CASK).	COMPOUND	(ug/L or ug/L [^])	UG/L	Q
75-34-3	1,1-Dichloroethane		250	U
75-35-4	1,1-Dichloroethene		250	u
156-59-2	cis-1,2-Dichloroethene		250	u
75-09-2	Methylene chloride		250	u
108-88-3	Toluene		29	J
71-55-6	1,1,1-Trichloroethane		30	J
79-01-6	Trichloroethene		250	u
75-01-4	Vinyl chloride		250	u

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE
ANALYSIS DATA SHEET

Client No.

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Lab Name: TestArosrica laboratories Inc. Contract:

Lab Cods: RECNY Case No.: SAS No.: SEGNO.:

Matrix: (soil/water) WATER Lab Sample ID: A8300209Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S2509.RRLevel: (low/roed) LOW Date Sanp/Recv: 03/26/2008 03/26/2008% Pfoisture: not dec. Heated Purge: N. Date Analyzed: 03/30/2008GC Column: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.00Soil Extract Volume: (uL) Soil Aliquot Volume: (UL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	{ug/L or ug/Kg}	<u>UG/L</u>	Q
75-34-3	1,1-Dichloroethane	5	U	U
75-35-4	1,1-Dichloroethene	5	U	U
75-09-2	Mathylene chloride	5	U	U
108-88-3	Toluene	5	U	U
71-55-6	1,1,1-Trichloroethane	5	U	U
79-01-6	Trichloroethene	5	U	U
75-01-4	Vinyl chloride	5	U	U
71-43-2	Benzene	5	U	U
1330-20-7	Total Xylenes	15	U	U
108-90-7	Chlorobenzene	5	U	U
79-00-5	1,1,2-Trichloroethane	5	U	U
107-06-2	1,2-Dichloroethane	5	U	U
127-18-4	Tetrachloroethene	5	U	U
67-66-3	Chloroform	5	U	U
106-61-0	Bromochloroethane	5	U	U
124-48-1	Dibromochloroethane	5	U	U
78-93-3	2-Butanone	10	U	U
56-23-5	Carbon Tetrachloride	5	U	U
95-50-1	1,2-Dichlorobenzene	5	U	U
106-46-7	1,4-Dichlorobenzene	5	U	U

Ecor Solutions
Bcor Solutions - Byron site
Wet Chemistry Analysis

23/204

Client Sample No.

rW-1/GW-25

Lab Name: TestAmerica Laboratories Inc.

Contract:

Lab Cede: RECNY

Case No.: _____

SAS No.:

SEG No.:

Matrix (soil/water) : WKTER

Lab Sample ID: A830Q206

% Solids: _____ 0,0

Date Samp/Recv: 03/26/2008 03/26/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	568				2540D	03/28/2008

Comments:

Handwritten signature/initials

Ecor Solutions
Ecor Solutions - Byron site
Wet Chemistry Analysis

24/204

Client Sample No.

PW-2/GW-25

Lab Name: TestAmerica laboratories Inc.

Contract:

Lab Code: RECNY

Case No.: _____

SAS NO.:

SDGNo. :

Matrix (soil/water) : HATER

Lab Sample ID: A8300207

% Solids: 0.0

Date Sanp/Recv: 03/26/2008 03/26/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	MG/L	712				2540D	03/28/2008

Comments:

SM/6/18/2008

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON SITE
AQUEOUS ASP 2000/8260 - SELECT LEST-TASLE 5
WATER SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories Inc. Contract:

LBb Code: RECONY

Case No.: _____ SAS No.:

SDG No.:

	Client Sample ID	Lab Sample ID	BFB KREC #	DCE %REC #	TOL XREC #					TOT OUT
1	DUP-9/GW-25	A8300208	88	92	86					0
2	HSB92	A8B1254301	92	85	90					0
3	HSB93	AfiB1255701	94	89	90					0
4	KW-1-9/GU-2S	A8300201	89	94	87					0
5	MU-10B-9/GU-25	AB3002Q3	87	86	91					0
6	HW-21-9/GU-25	A8300204	94	100	95					0
7	HW-21-9/GU-25	A8300204HS	91	88	85					0
8	HU-21-9/GU-25	AB300204SD	90	88	85					0
9	MW-4-9/GU-25	A8300202	91	96	91					0
10	HU-RESIDEHT-9/GU-25	A830020S	B6	88	87					0
11	TRIP BLANK	A830Q209	35	97	86					0
12	VBLK92	A8B1254302	SS	91	90					0
13	VBLK93	A8B1255702	89	96	90					0
H	VHB	A8300210	95	103	94					0

QC LIMITS

BFB = p-Bromofluorobenzene (73-120)
DCE = 1,2-Dichloroethane-D4 (66-137>
TOL = Toluene-D8 (71-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

12/131

ECCR SOLUTIONS
ECOR SOLUTIONS
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 COMPS
ANALYSIS DATA SHEET

Client No.

PW-3

Lab Name: TeBtAroarica Laboratories Inc. Contract:Lab Code: RECNY Case No.: _____ SAS No.: _____ SDGNo.: _____Matrix: (soil/water) WRIERLab Sample ID: A83B6101Sample wt/vol: 5.00 (g/mL) MLLab File ID: S2768.RRLevel: (lcw/med) LOWDate Sanp/Hecv: 04/10/2008 04/11/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 04/18/2008QC Column: ZB-624 ID: 0.18 (nm)Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CC1SOENTRATICN UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/L

75-34-3	1,1-Dichloroethane	0.9	J
75-35-4	1,1-Dichloroethene	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	24	
79-01-6	Trichlorosthene	5	U
75-01-4	Vinyl chloride	5	U

3/18/2008
6/6/2008

ECCR sarimcNs
ECOR SOLUXICNS
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMEDS
ANALYSIS DATA SHEET

.Client No.

TRIP BLANK

TJ*>> Name: TestAmerica Laboratories Inc. Contract:

Lab Code: KECNY Case No.: _____SASNb.: _____SD3 No.:

Matrix: (soil/water) WATER lab Sample ID: A8386102Sample wt/vol: 5.00 (g/iriL) ML lab Bile ID: S2723.RRLevel: (low/med) LCW Date Samp/Recv: 04/10/2008 04/11/2008% Moisture: not dec. _____Heated Purge: N Date Analyzed: 04/17/2008GC Column: ZB-624 ID: 0.18 (nm) Dilution Factor: 1.00

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

CCNCENTRATICN UNITS:
(ug/L or vg/Kg) tg/L

CAS NO.	COMPOUND		
75-34-3	1,1-Dichloroethans	5	U
75-35-4	1,1-Dichloroethene	5	U
156-59-2	cis-1 [^] -Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U

APPENDIX C
ISRT Analytical Data

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8305601	MW-1	WATER	03/26/2008	12:50	03/26/2008	15:55
A8300101	MW-1-9/GW-25	WATER	03/26/2008	12:50	03/25/2008	15:55
A8300102	MW-10B-9/GW-25	WATER	03/26/2008	12:05	03/26/2008	15:55
A8300103	MW-21-9/GW-25	WATER	03/26/2008	10:35	03/26/2008	15:55
A8305602	MW-4	WATER	03/26/2008	13:25	03/26/2008	15:55
A8300104	MW-4-9/GW-25	WATER	03/26/2008	13:25	03/26/2008	15:55
A8305603	rw-i	WATER	03/26/2008	13:13	03/26/2008	15:55
A8300105	PW.-1/GW-25	WATER	03/26/2008	13:13	03/26/2008	15:55
A8305604	PW-2	WATER	03/26/2008	12:30	03/26/2008	15:55
A8300106	PW-2/GW-25	WATER	03/26/2008	12:30	03/26/2008	15:55
A8386301	PW-3	WATER	04/10/2008	09:40	04/11/2008	09:50

METHODS SUMMARY

Job#: A08-3001,A08-3056,A08-3863Projects NY1A8798SD3#: 3001Site Name: Ecor Solutions

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
DISSOLVED GASES - CARBON DIOXIDE ONLY {SUBCONTRACT}	OTHER RSK175
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	OTHER RSK175
Iron - Soluble	SW8463 6010
Iron - Total	SW8463 6010
Manganese - Soluble	SW8463 6010
Manganese - Total	SW8463 6010
Biochemical Oxygen Demand	SM20 5210B
Chemical Oxygen Demand	MCAWW 410.4
Chloride	SW8463 9056
Nitrate-Nitrite	MCAWW 353.2
Sulfate	ASTM D-516-90
Sulfide	SM20 4500-S F
Total Kjeldahl Nitrogen	MCAWW 351.2
Total Organic Carbon	SW8463 9060
Total Phosphorous	SM20 4500-P E

References:

ASTM	"Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, PA.
MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
OTHER	Non-standard Protocol and Method Defined fcy State, Client OAPP or Developed by Laboratory
SM20	"Standard Methods for the Examination of Water and Wastewater", 20th Edition.
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86,- Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SD3 NARRATIVE

Job#: A08-3001.A08-3056.A08-3863Project#: NY1A8798SD3#: 3001Site Name: Ecor SolutionsGeneral Comments

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

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

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

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

Sample Receipt Comments

A08-3001

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

A08-3056

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

A08-3863

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

GC Volatile Data

Carbon Dioxide was subcontracted to TestAmerica Austin. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Carbon Dioxide may be found within the comment summary of the subcontract report.

Metals Data

Samples IW-1/GW-25 and PW-2/GW-25 for Dissolved Metals were filtered and preserved in the TestAmerica Metals Digestion Laboratory on 03/28/2008. Each sample was filtered using a 0.45 micron filter Metricle Black Grid filter, Pall Life Sciences Lot #66586. Each sample was then preserved to a pH <2 with 2.0 Trils of Nitric Acid, J.T. Baker lot #E50032.

Wet Chemistry Data

Samples MW-4-9/OJ-25, PW-1/GW-25 and PW-2/GW-25 were initially analyzed within the analytical holding time using multiple dilutions for Biochemical Oxygen Demand, however all of the oxygen was depleted. The results could not accurately be quantified.

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

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer
Project Manager

Date

Date: 04/23/2008
Time: 07:34:28

Dilution Log w/code Information
For Project NY1A8796, SDG 3001

7/111 1
Rept: AN1266R

client Sample p	Lab Sample ID	Parameter (Inorganic)/Hethod (Organic)	Di Lution	Code
MW-1-9/GW-25	A8300101	RSK175	50.00	008
HW-1-9/6V-25	A8300101	Chloride	5.00	002
MW-1-9/6W-25	A8300101	Sulfate	2.00	008
MW-1-9/GU-25	A8300101HS	RSK175	50.00	008
MW-1-9/6W-25	A8300101PIS	Chloride	5.00	002
HW-1-9/6W-25	A830Q101S0	RSK175	50.00	008
HH-4-9/GW-25	A8300104	RSK175	50.00	008
MH-4-9/SW-25	A8300104	Chloride	5.00	002
HW-4-9/GW-25	A8300104	Total Organic Carbon	5.00	008
PW-1/GW-25	A8300105	RSK175	50.00	008
PW-1/GM-25	A8300105	Biochemical Oxygen Demand	10.00	008
PW-1/GW-25	A830010S	Chemical oxygen Demand	10.00	008
PW-1/GH-25	A8300105	Chloride	5.00	002
PW-1/GW-25	A8300105	Sulfide	2.00	010
PW-1/GW-25	A830Q105	Total Kjeldaht Nitrogen	10.00	008
PW-1/GW-25	A8300105	Total Organic Carbon	40.00	008
PW-2/GW-25	A830010S	Total Phosphorous	10.00	008
PW-2/GV-25	A8300106	RSK175	50.00	008
PW-2/GW-25	A8300106	Biochemical Oxygen Demand	10.00	008
PW-2/GW-25	A8300106	chemical Oxygen Demand	200.00	008
PU-2/GW-25	A830Q106	Chloride	5.00	002
PW-2/GW-25	A8300106	Nitrate-Nitrite	5.00	008
PW-2/GW-25	A8300106	Sulfide	4.00	010
PW-2/GW-25	A8300106	Total Kjeldahl Nitrogen	10.00	008
PW-2/GW-25	A830Q106	Total Organic Carbon	40.00	008
PW-2/GW-25	A8300106	Total Phosphorous	50.00	008
HW-1	A8305601	RSK175	50.00	013
MW-4	A8305602	RSK175	50.00	013
PW-1	A830S603	RSK175	50.00	013
PW-2	A8305604	RSK175	50.00	013

Dilution Code Definition:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

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

INORGANIC DATA QUALIFIERS

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

Date: 04/23/2008
Time: 07:34:35

Ecor Solutions
BYRON SITE - Aqueous
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE

Rept: AN0326

Client ID Job No Sample Date		Lab ID		MW-1-9/SW-25 A08-3001 03/26/2008		A8300101		HW-10B-9/6W-25 A08-3001 03/26/2008		A8300102		ftw-4-9/6W-25 A08-3001 03/26/2008		A8300104		PV-1/GV-25 A08-3001 03/26/2008		A8300105	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
	U6/L	ND	75	ND	1.5	ND	75	ND	1.5	ND	75	ND	75	ND	75	ND	75	ND	75
	U6/L	ND	75	ND	1.5	ND	75	ND	1.5	ND	75	ND	75	ND	75	ND	75	ND	75
	US/L	140	50	ND	1.0	140	50	ND	1.0	140	50	ND	600	600	50	ND	50	ND	50

Client ID Job No Sample Date		Lab ID		PW-2/6W-25 A08-3001 03/26/2008		A8300106													
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ethane	UG/L	ND	75	NA		NA		NA		NA		NA		NA		NA		NA	
Ethene	UG/L	ND	75	NA		NA		NA		NA		NA		NA		NA		NA	
Hethane	UG/L	480	50	NA		NA		NA		NA		NA		NA		NA		NA	

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Date: 04/23/2008
Time: 07:34:35

Ecor Solutions
BYRON SITE - Aqueous
DISSOLVED GASES - CARBON DIOXIDE ONLY<SU8CONTRACT)

Rept: AN0326

Client ID Job No Lab ID Sample Date		nu-1 A08-3056 A8305601 03/26/2008		I1W-4 A08-3056 A8305602 03/26/2008		PW-1 A08-3056 A8305603 03/26/2008		PU-2 A08-3056 A8305604 03/26/2008	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Carbon Dioxide	US/L	270000	50000	470000	50000	490000	50000	350000	50000

Date: 0A/23/2008
Time: 07:34:42

Ecor Solutions
BTROH SITE - Aqueous
BYRON - SW8463-6010 TOTAL FE,WJ - W

Rept: AN0326

Client ID Job No Sample Date		Lab ID		HU-1-9/6W-25 A08-3001 03/26/2008		A8300101		P1M-A-9/6W-25 A08-3001 03/26/2008		A8300104		PW-1/6W-25 A08-3001 03/26/2008		A8300105		PH-2/GM-25 A08-3001 03/26/2008		A8300106	
Anatye		Units		Sample Value		Reporting Limit		Sample value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - Total		II6/L		0.29		0.050		7.3		0.050		25.4		0.050		57.4		0.050	
Manganese - Total		PI6/L		0.020		0.0030		1.2		0.0030		4.1		0.0030		4.1		0.0030	

NA - Not Applicable ND = Not Detected

TestAmerica Lab

Date: 01/23/2008
Time: 07:34:42

Ecor Solutions
8YRON SITE - Aqueous
8YRON - SW8463- 6010-OISSOLVED FE, UN

Rept: AN0326

Client ID		nw-i-9/ew-25		MW-4-9/GW-25		PW-1/GW-25		PW-2/6W-25	
Job No	Lab ID	A08-3001	A8300101	A08-3001	A8300104	A08-3001	A8300105	A08-3001	A8300106
Sample Date		03/26/2008		03/26/2008		03/26/2008		03/26/2008	
Analyte	Units	Sanple Value	Reporting Unit	Sanple Value	Reporting Linit	Sanple Value	Reporting Linit	sanple Value	Reporting Linit
Iron - Soluble	«6/L	0.16	0.050	4.0	0.050	16.2	0.050	62.9	0.050
Manganese - Soluble	H6/L	0.017	0.0030	1.0	0.0030	4.2	0.0030	4.3	0.0030

*£

Date: 04/23/2008
Time: 07:34:46

Ecor Solutions
BYRON SITE - Aqueous
MET CHEMISTRY ANALYSIS

Rept: ANQ326

Client ID job No Lab ID Sample Date		MW-1-9/6W-25 A08-3001 A8300101 03/26/2008		HW-10B-9/GW-25 A08-3001 A8300102 03/26/2008		HU-21-9/6U-25 A08-3001 A8300103 03/26/2008		NW-4-9/6W-25 A08-3001 A8300104 03/26/2008	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sanple value	Reporting Limit
Biochemical Oxygen Denand	MG/L	ND	2.0	NA		NA		76.8 E	2.0
Chemical oxygen Demand	MG/L	ND	10	NA		NA		340	10
Chtoride	MG/L	9.2	2.5	NA		NA		11.0	2.5
Nitrate-Nitrite	P16/L-N	ND	0.050	NA		NA		ND	0.050
Sulfate	MG/L	44.7	10	NA		NA		ND	5.0
Sulfide	HS/L	ND	1.0	NA		NA		ND	1.0
Total Kjeldahl Nitrogen	MG/L-N	ND	0.20	NA		NA		0.50	0.20
Total Organic Carbon	HG/L	2.0	1.0	12.8	1.0	28.1	1.0	118	5.0
Total Phosphorous	no/L-p	ND	0.010	NA		NA		0.046	0.010

Client 10 Job No Lab ID Sample Date		PW-1/SW-25 A08-3001 A8300105 03/26/2008		PW-2/GW-25 A08-3001 A8300106 03/26/2008		PW-3 A08-3863 A8386301 04/10/2008			
Analyte	Units	Sanple Value	Reporting Limit	Sample value	Reporting Limit	Sanple Value	Reporting Limit	Sample Value	Reporting Limit
Biochemical Oxygen Demand	MG/L	792 E	2.0	761 E	2.0	NA		NA	
chemical Oxygen Demand	MG/L	8180	100	82400	2000	NA		NA	
Chloride	MG/L	4.2	2.5	18.6	2.5	NA		NA	
Nitrate-Nitrite	MG/L-N	0.20	0.050	0.82	0.25	NA		NA	
Sulfate	MG/L	ND	5.0	5.5	5.0	NA		NA	
Sulfide	MG/L	2.4	2.0	6.4	4.0	NA		NA	
Total Kjeldahl Nitrogen	IIS/L-N	2.6	2.0	4.0	2.0	NA		NA	
Total Organic carbon	PIS/L	1250	40.0	254	40.0	1.4	1.0	NA	
Total Phosphorous	PIS/L-P	0.82	0.10	30.0	0.50	NA		NA	

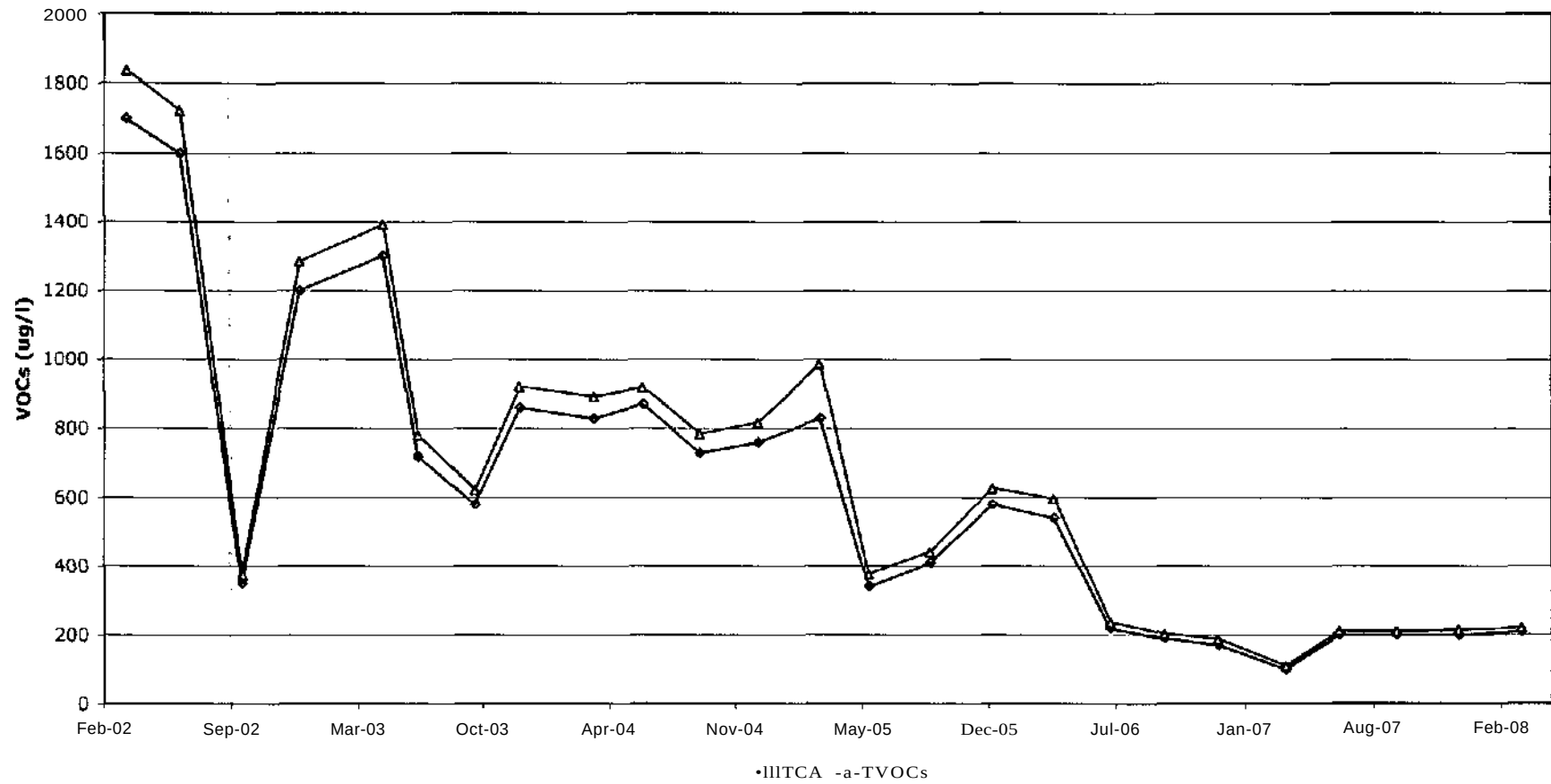
^

NA - Not Applicable ND * Not Detected

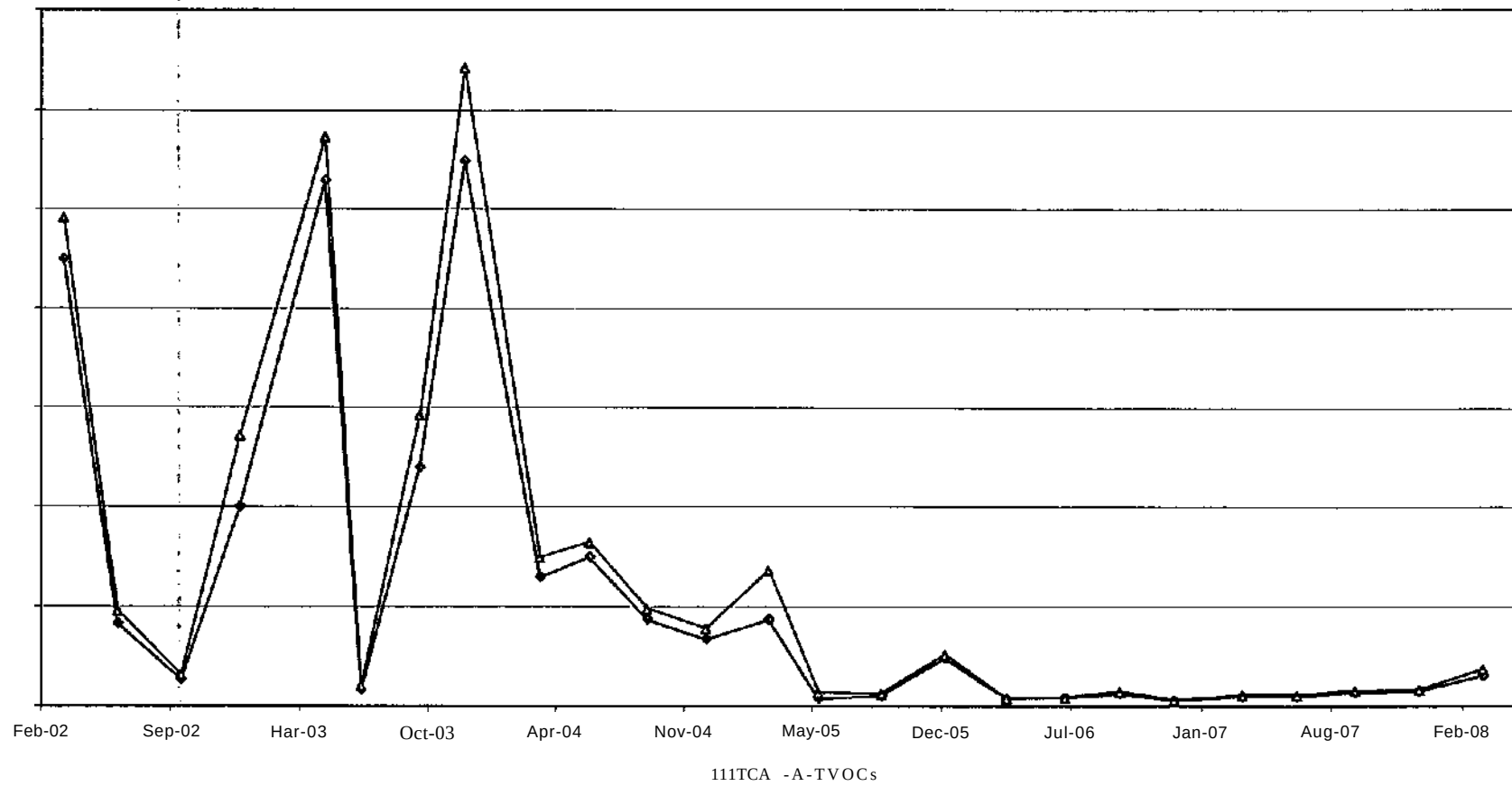
TestAmerica Lab

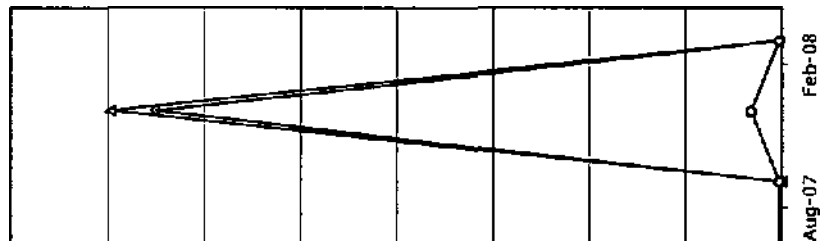
APPENDIX D
Groundwater Isoconcentration Graphs

Groundwater Monitoring Well MW-1



Groundwater Monitoring Well MW-4





SDOA

(I/Bn)

SDOA

(I/Bn)

SDOA

(I/Bn)

SDOA

(I/Bn)

SDOA

(I/Bn)

SDOA

(I/Bn)

SDOA

(I/Bn)

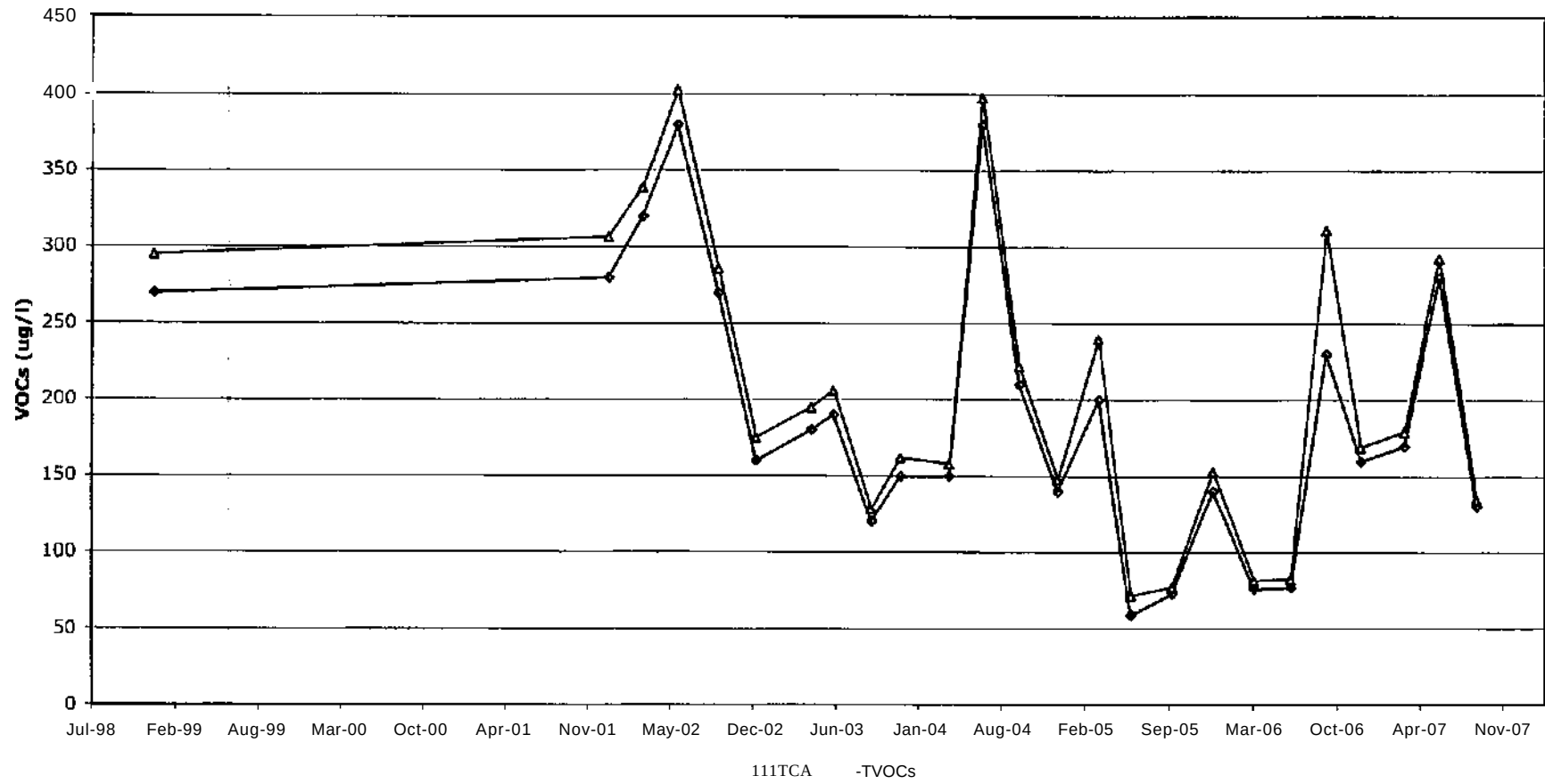
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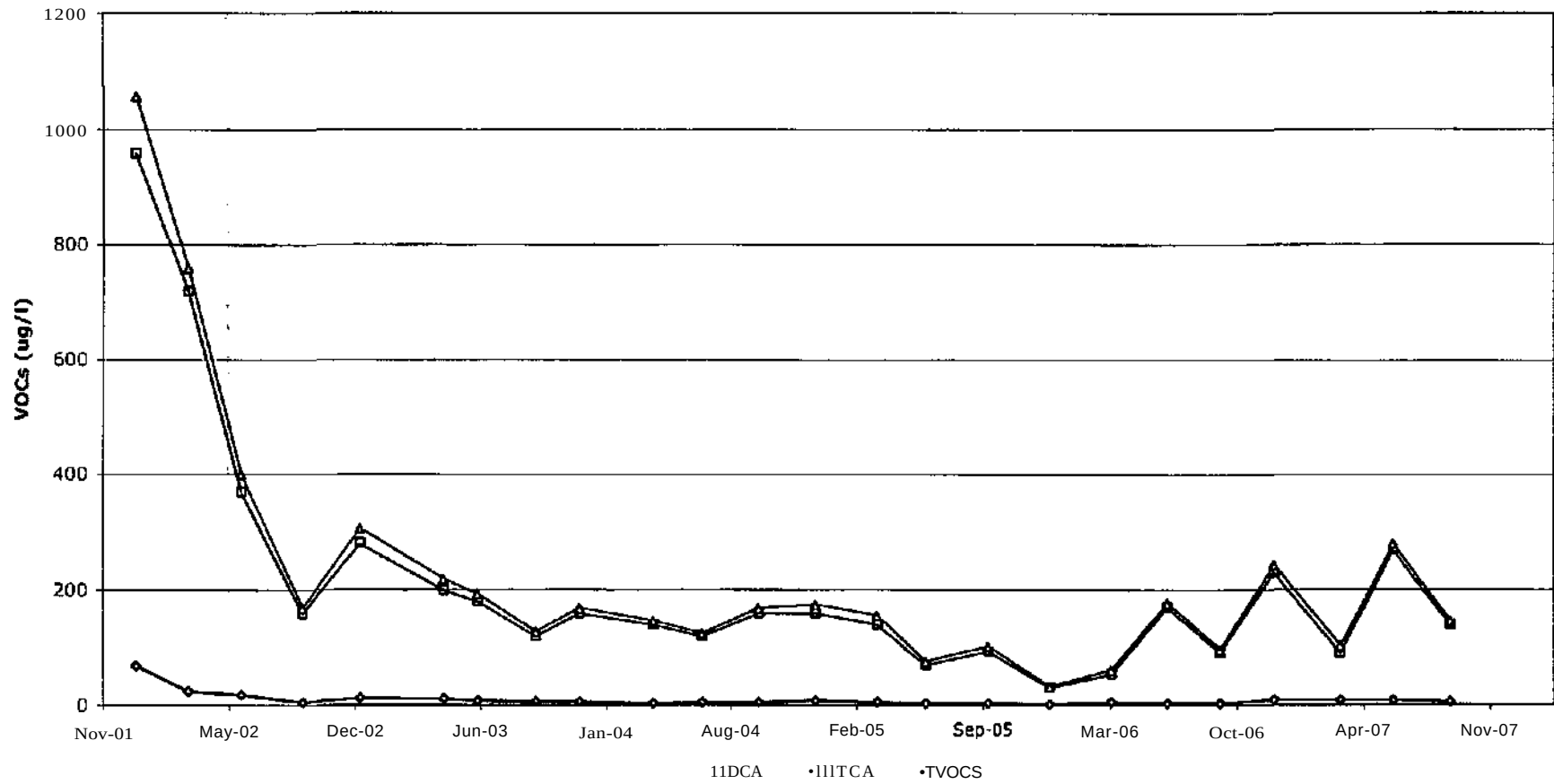
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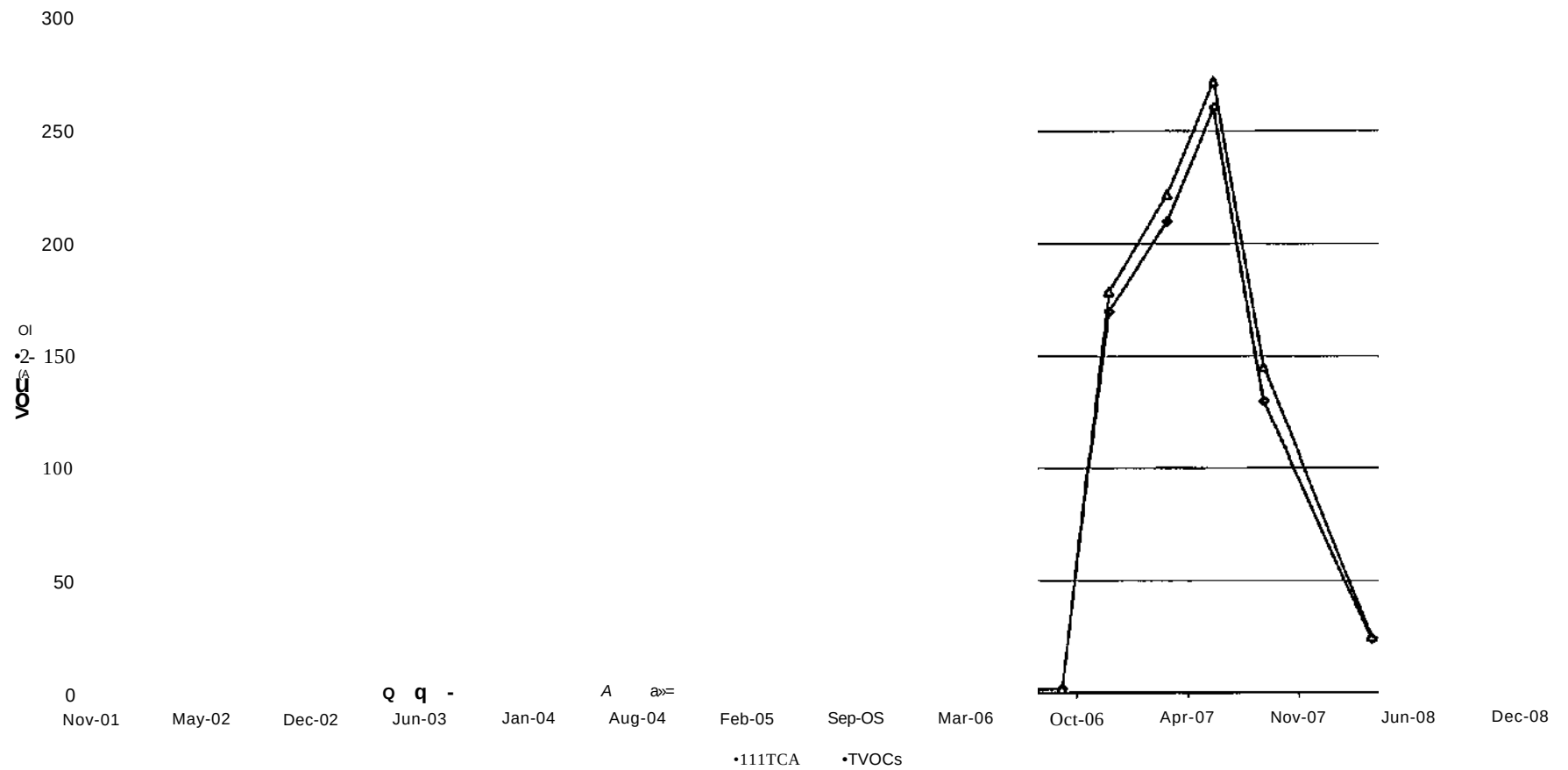
Extraction Well PW-1



Extraction Well PW-2



Extraction Well PW-3



Final
BYRON BARREL & DRUM SITE
QUARTERLY REPORT
SECOND QUARTER 2008

Byron Barrel & Drum Site
Area 2
Byron, New York

September 30, 2008

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1.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the second quarter 2008. The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the second calendar quarter of 2008. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

LI SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. A Site map is provided as **Figure 1**. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of two additional groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

The Remedial Design was altered in late 2007 with the injection of carbon substrate to enhance in-situ bioremediation

1.2 CHRONOLOGY OF EVENTS

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	Date	Notes
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995 -	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11,2001	
RA Construction	June 11 -July 15, 2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous 0 & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17, 2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12,2007	
In-Situ Bioremediation Injection Event	September 18-20, 2007	
Preliminary Injection monitoring samples collected in addition to groundwater VOC samples	December 19-21,2007	
Injection monitoring samples collected in addition to groundwater VOC samples	March 26, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	June 18,2008	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (First Quarter 2008), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUND WATER TREATMENT SYSTEM

During routine operation, groundwater was recovered from the three pumping wells (PW-1, PW-2, and PW-3) and treated through a bag filter and an air stripper prior to discharge. The bag filter removed suspended solids greater than 50 microns in diameter. The low-profile air stripper removed the VOCs from the groundwater. Following air stripping, the groundwater was discharged to surface water.

Figure 1 illustrates the PW locations and the Groundwater Treatment System (GWTS). A Flow Diagram of the GWTS equipment and process piping is presented in **Figure 2**.

3.1 CURRENT SYSTEM STATUS

The GWTS was temporarily shut down on September 12, 2007 to allow for the In-Situ Remediation Technology (ISRT injection) to be carried out. The system will remain shut down awaiting the results and evaluation of the injection. A preliminary evaluation is presented in Section 4.4.

3.2 SYSTEM OPERATIONS HISTORY THROUGH SECOND QUARTER 2008

A total of 20,572,110 gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,748,110 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

3.3 MONITORING HISTORY THROUGH SECOND QUARTER 2008

Tables 1 and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4**. This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

4.0 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on June 18 2008 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23, 2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B, and pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table 3**. Copies of field notes collected during the sampling events are included in **Appendix A**. The preserved groundwater samples were collected and analyzed by TestAmerica Laboratories (TAL), Buffalo, New York. A summary of Site groundwater elevations is provided in **Table 4**.

4.2 LABORATORY ANALYSIS / GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5**. The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, MW-10B) were analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCl, TCA, TCE, toluene, VC and cis-1,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 130 micrograms per liter (ng/L) (TCA at monitoring well MW-1). Currently, only 1,1-DCA (at MW-1 and PW-1), and TCA (at MW-1, MW-4, MW-10B, PW-1 and PW-3) are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

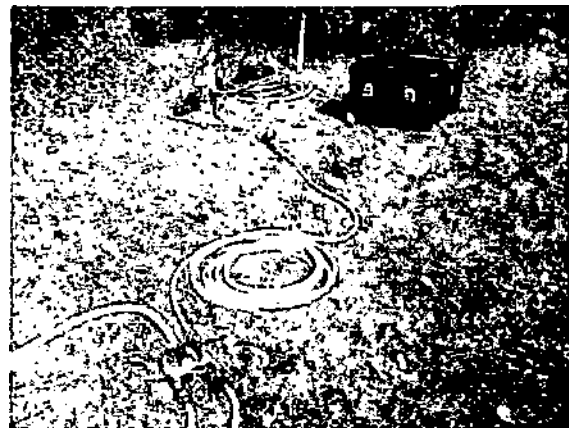
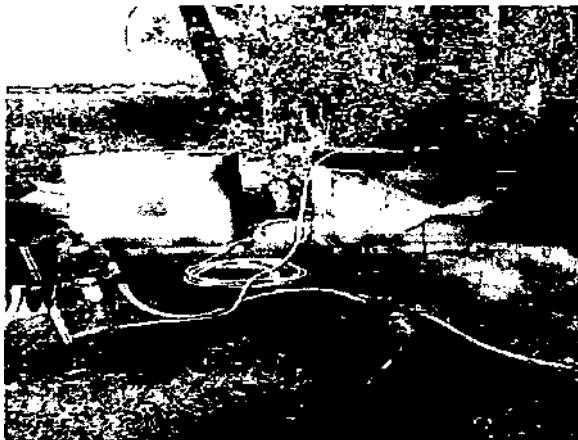
Chemical	Groundwater Cleanup Level (Mg/L)
1,1-Dichloroethane	5
1,1 -Dichloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

4.3 DATA VALIDATION

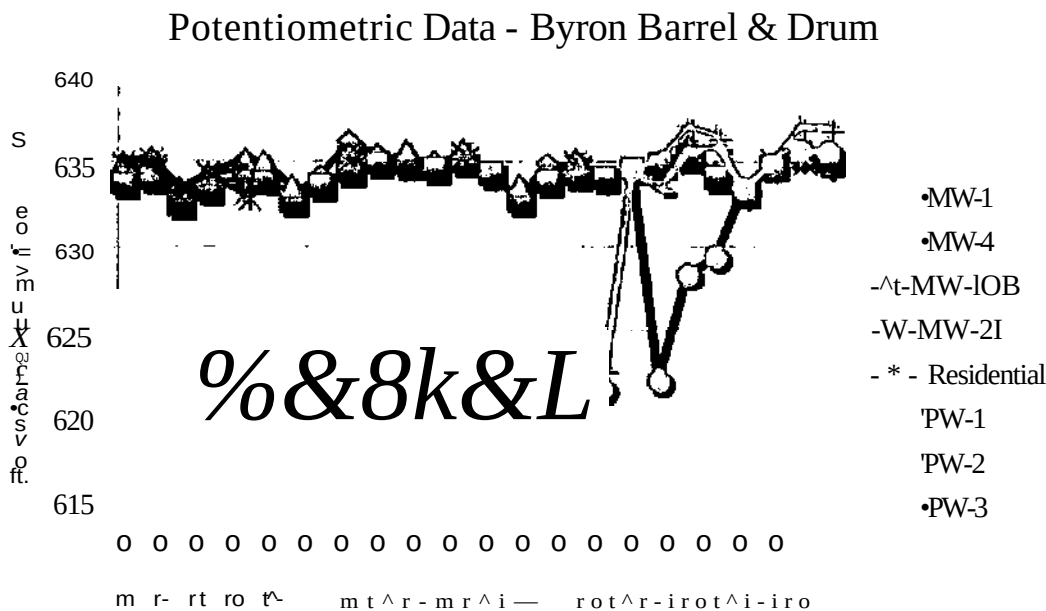
As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B**.

4.4 ISRTEVALUATION

The injection program took place September 18 through September 20, 2007. The injection program consisted of metering the amendment from totes and pails containing the Newman's Zone, an emulsified vegetable oil, mixed with potable water and injection down each well as a dilute solution.

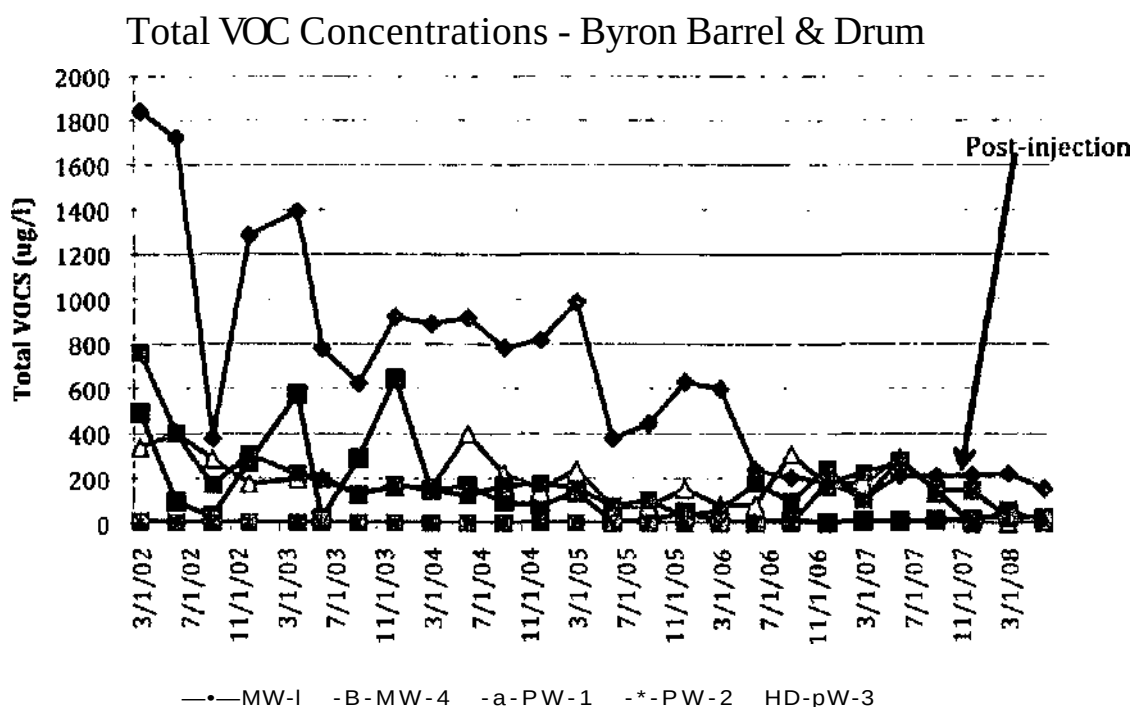


Monitoring groundwater levels for the period was conducted June 18, 2008. Groundwater samples were collected for laboratory analysis on at wells MW-1, MW-4, MW-10B, PW-1, PW-2 and PW-3. Similar to previous monitoring periods where the GWTP was not operating, the horizontal hydraulic gradient is extremely low (0.0031), as noted in the chart below.



Several parameters are sampled as part of the ERD program to monitor progress of the pilot test, including Iron (Total and Dissolved), Manganese (Total and Dissolved), Biochemical Oxygen Demand, Chemical Oxygen Demand, Chloride, Nitrate-Nitrite, Sulfate and Sulfide, Total Kjeldahl Nitrogen, Total Organic Carbon (TOC), Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide, and VOCs. **Table 3** provides a summary of the field parameters measured during the June 2008, Quarterly Sampling Event. **Table 5** provides a summary of the VOCs detected during the June 2008, Quarterly Sampling Event. Raw data is presented on **Appendix C**.

The June 2008, sampling event was the third post-injection sampling and is confirming some trends in the data in the ERD pilot test. The VOC levels in downgradient monitoring wells MW-1 and MW-4 have exhibited a slight increase in total VOCs, which is common in the initial post-injection sampling programs.

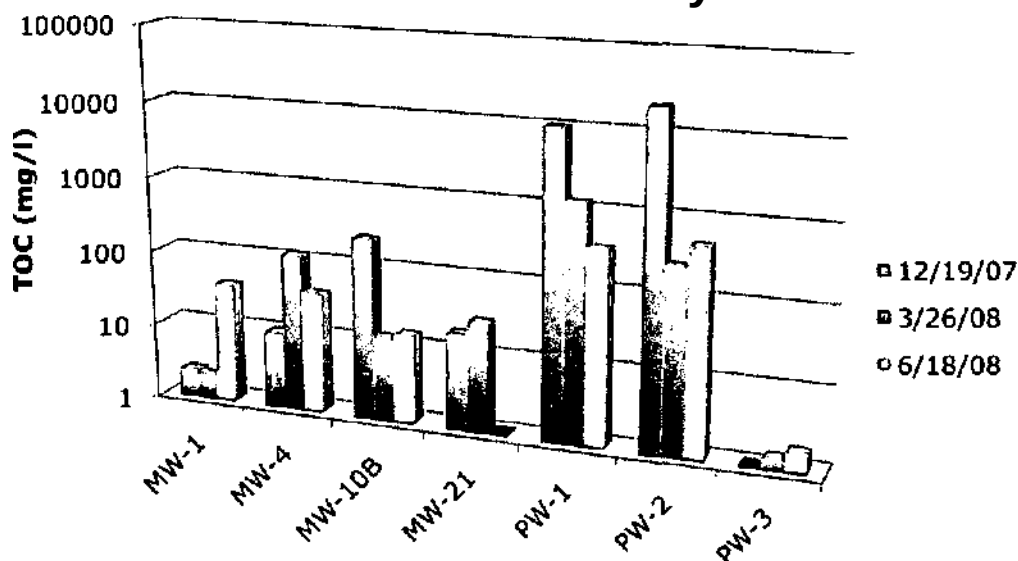


At monitoring well MW-10B the large spike in VOC levels detected in December 2007, largely 11 ITCA and 11DCA, have returned to historical levels. The increase in concentrations depicted in the December 2007, sampling event is an indication the injection program affected a source area near MW-10B. This area may be the focus of future injections. To date, the total VOC concentration mimics the 11 ITCA concentration and a further indication the ERD program is progressing will be the generation of the daughter products and a reduction of the ratio of 11 ITCA to total VOCs. The June 2008, sampling event shows a reduction in the development of the ERD zone, primarily depicted by the distribution of TOC since the injection event. A comparison of this data is summarized in the table below.

Total Organic Carbon (mg/l)		
	12/19/2007	6/18/2008
MW-1	2.3	38.2
MW-4	10.0	28.8
MW-10B	240	15.0
PW-1	10,200	356
PW-2	21,100	484
PW-3	-	1.8

As noted in the table above, each injection well (MW-10B, PW-1, PW-2) have experienced a significant reduction in TOC levels. TOC levels increased at monitoring well MW -1 and MW-4, downgradient of the injection area, as highlighted in the chart below.

Monitoring Well Total Organic Carbon Summary



One primary objective of the ERD program is to keep the TOC concentrations elevated in this area, and this level of decrease in the TOC indicates further carbon is necessary to continue the ERD program.

Another measure of establishing an ERD zone is monitoring the oxidation reduction potential (ORP) in and downgradient of the injection zone. As opposed to the December 19, 2007, sampling date which indicated that the area only around **PW-1** began to shift toward strongly anaerobic conditions, the June 2008, sampling event shows a broader area with lower ORP levels. These ORP results are consistent with the general increase in soluble iron, sulfide, Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), as summarized in the table below. These are positive trends in the ERD program.

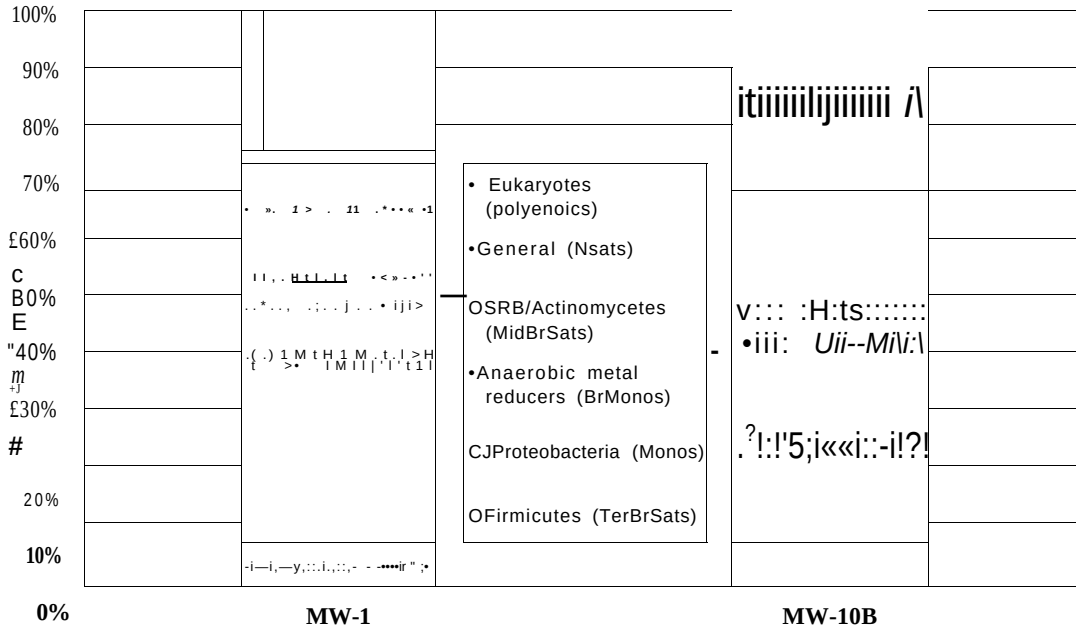
		Iron, Total (mg/l)	Iron, Dissolved (mg/l)	Manganese, Total (mg/l)	BOD (mg/l)	COD (mg/l)	Sulfide (mg/l)
MW-1	12/19/2007	0.30	0.097	0.10	ND	ND	ND
MW-1	6/18/2008	6.0	5.8	1.1	88.5	110	ND
MW-4	12/19/2007	0.48	ND	0.011	ND	29.8	ND
MW-4	6/18/2008	8.4	4.9	0.78	199	261	ND
PW-1	12/19/2007	22.7	15.6	3.4	21,000	151,000	ND
PW-1	6/18/2008	48.2	48.4	8.0	1,970	9,140	ND
PW-2	12/19/2007	1.4	0.71	0.76	16,000	79,800	ND
PW-2	6/18/2008	105	7.2	6.4	20,228	36,100	2.0

In terms of dissolved gasses, neither ethane or ethene were detected at any of the monitoring or injection wells. Methane was detected at MW-4, PW-1 and PW-2, as noted in the table below.

		Ethane (ug/l)	Ethene (ug/l)	Methane (ug/l)	Carbon Dioxide (ug/l)
MW-1	12/19/2007	ND	ND	37	300,000
MW-1	6/18/2008	ND	ND	ND	74,000
MW-4	12/19/2007	ND	ND	ND	150,000
MW-4	6/18/2008	ND	ND	15	85,000
MW-10B	12/19/2007	5.3	8.7	ND	NA
MW-10B	6/18/2008	ND	ND	41	30,000
PW-1	12/19/2007	ND	ND	ND	280,000
PW-1	6/18/2008	ND	ND	920	220,000
PW-2	12/19/2007	ND	ND	ND	47,000
PW-2	6/18/2008	ND	ND	3400	180,000

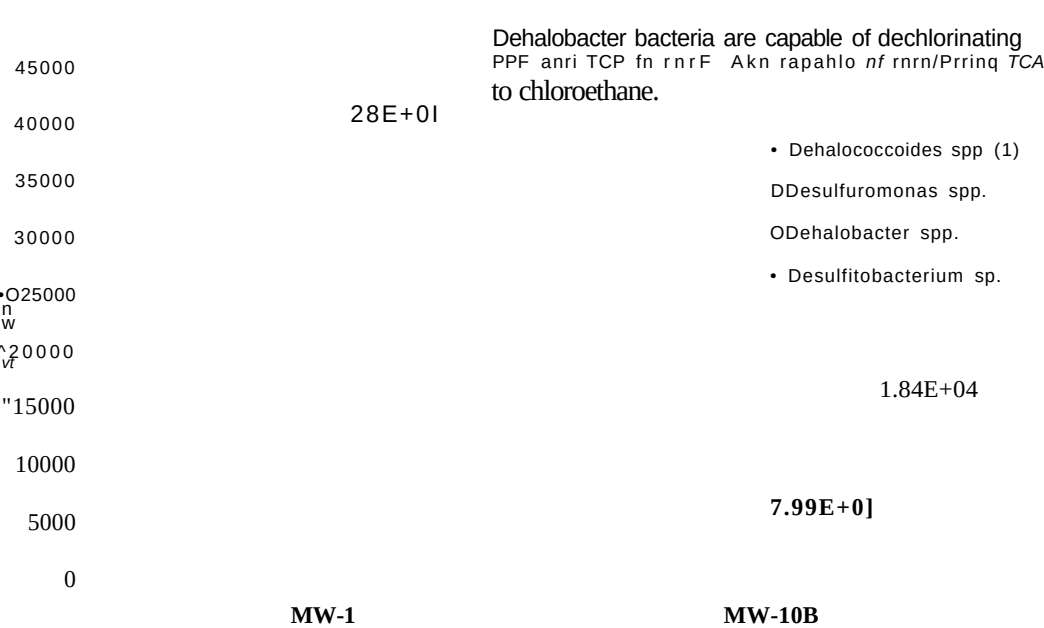
Data generated from the 2006 BioTrap samplers confirmed that methanotrophs were detected at relatively high numbers (7×10^6 and 1×10^7 cells/bead). Methanotrophs are ubiquitous aerobic microorganisms that require methane as their sole source of carbon. The enzyme that initially oxidizes methane also oxidizes 111TCA, 11DCA, 11DCE, TCE and other chlorinated VOCs. These microorganisms will degrade these compounds cometabolically under aerobic conditions in the presence of methane without the production of the lesser chlorinated daughter products (e.g. 1 IDC A, chloroethane). These data indicate that methanotrophic degradation is still a major natural attenuation process at the Site, and during the 2nd Quarter 2008 the BioTrap samplers installed in MW-1 and MW-10B were retrieved and analyzed. The BioTraps were installed on April 10, and removed on June 18, 2008, approximately 61-days after installation.

In-Situ PFLA Community Structure - June 2008



The results of the 2008 BioTrap sampling indicate less biological activity in terms of general population counts, however, the dechlorinating Dehalobacter population remains at moderate levels in groundwater.

Dechlorinating Bacteria from BioTraps (Jun-08)



5.0 PLANS FOR NEXT QUARTER

It is recommended the GWTP remain shut-down until further post-injection sampling is conducted and evaluated. This means the GWTP will not be operational for the 3rd Quarter 2008. However, quarterly groundwater sampling will continue to be collected in accordance with the QAPP and described in **Table 6**. The third quarter 2008 sampling is scheduled for September 26, 2008. At this time the additional post-injection samples will also be collected.

Additionally, ECOR has developed a Workplan for a Phase II in-situ bioremediation program as a follow-up to the December 22, 2006 In-Situ Bioremediation Workplan and the July 13, 2007, In-Situ Bioremediation Workplan Addendum which supplements the information previously submitted regarding the technical decisions and procedures from Phase I of the injection program and updates that information with monitoring data to support the proposed enhanced reductive dechlorination (ERD) Phase II injection program. Data from samples collected during the third quarter sampling event will be used as a baseline for site conditions prior to the Phase II injection.

TABLES

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/01	8/8/01	8/18/01	9/18/01	9/27/01	10/5/01
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, ug/L	23	47	60	19J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12 J	16 DJ	50 U
Cis -1,2 - Dichloroethene, ug/L	1.0 J	1.4 J	1.0J	50 U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, pg/L	1.9J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, pg/L	499	899	1276	1124	1174	823

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/01	11/8/01	11/28/01	12/13/01	12/27/01	1/18/02
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, pg/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, pg/L	13 J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis -1,2 - Dichloroethene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	1200	580	530	260	220 E	250 E
Trichloroethene, pg/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	1259	635	559	277	237	270

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/02	2/13/02	2/23/02	3/8/02	3/20/02	4/8/02
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis -1,2 - Dichloroethene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride, pg/L	10U	10U	5.0 U	5.0 U	1.8 BJ	10 U
1,1,1 - Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10 U	10 U	3.3 J	5.0 U	5.0 U	10U
Vinyl Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	19/GW 4/24/02	20/GW 5/8/02	21/GW 5/21/02	22/GW 6/4/02	23/GW 6/13/02	24/GW 7/11/02
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19J	18D,J	20
1,1-Dichloroethene, pg/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10 U	10 U	10 U	25 U	20 U	10U
Methylene Chloride, ug/L	15B	10 U	3.1 BJ	16 J	12 B.D.J	8.5 B,J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, ug/L	2.6 J	10 U	10 U	25 U	20 U	10 U
Vinyl Chloride, ug/L	10U	10 U	10 U	25 U	20 U	10 U
Total Confident VOCs, pg/L	246	276	376	425	390	407

Sampling Event Date	25/GW 7/23/02	26/GW 8/29/02	27/GW 9/18/02	28/GW 10/29/02	29/GW 11/25/02	30/GW 12/18/02
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, ug/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, ug/L	2.6 J	1.3J	1.8 J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, ug/L	210	150	190	170	160D	150
Trichloroethene, ug/L	10 U	1.9 J	1.9J	2.5 J	10 U	1.9J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, ug/L	222	162	202	184	172	161

Sampling Event Date	31/GW 1/17/03	32/GW 2/19/03	33/GW 4/30/03	34/GW 6/23/03	35/GW 7/30/03	36/GW 8/27/03
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10 U	10U	5.0 U	5.0 U
Cis - 1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10 U	10U	1.2J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	37/GW 9/24/03	38/GW 10/23/03	39/GW 11/20/03	40/GW 12/3/03	41/GW 1/29/04	42/GW 3/30/04
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, ug/L	2.0 DJ	10U	1.1 J	1.6 J	5.0 U	1.0J
Toluene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event Date	43/GW 5/20/04	44/GW 6/16/04	45/GW 7/15/04	46/GW 8/26/04	47/GW 9/14/04	48/GW 10/28/04
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10 U	2.3 J	5.0 U	10 U	2.3 J
Cis-1,2- Dichloroethene, ug/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 - Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10U	1.6 J	5.0 U	10U	1.1 J
Toluene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event Date	49/GW 12/14/04	50/GW 1/27/05	51/GW 3/22/05	52/GW 4/26/05	53/GW 5/30/05	54/GW 6/7/05
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis-1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 - Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6 J	2.2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	55/GW 7/28/05	56/GW 8/29/05	57/GW 9/13/05	58/GW 10/18/05	59/GW 11/22/05	60/GW 12/19/05
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	10	9.5 J	2.3 J	7.1 J	5.2 J	2.7 J
1,1-Dichloroethene, pg/L	4.8	3.1 J	0.64 J	1.5 J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, pg/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Methylene Chloride, pg/L	1.0 U	2.4 J	5.0 U	10 U	2.0 J	5.0 U
1,1,1 - Trichloroethane, pg/L	260	220	53	180	130	61
Trichloroethene, pg/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Vinyl Chloride, UP/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event Date	61/GW 1/19/06	62/GW 2/24/06	63/GW 3/27/06	64/GW 4/20/06	65/GW 5/25/06	66/GW 6/20/06
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, pg/L	1.7 J	1.3J	1.1 J	1.3 J	1.5 J	0.94 J
Cis -1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	10 U	10 U	5.0 U
Methylene Chloride, ug/L	5.0 U	2.1 BJ	5.0 U	10 U	1.3 J	5.0 U
1,1,1 -Trichloroethane, pg/L	170	100	110	140	160	80
Trichloroethene, pg/L	1.3J	0.87 J	0.95 J	1.0 J	1.2 J	0.72 J
Toluene, pg/L	5.0 U	10U	5.0 U	10 U	10 U	5.0 U
Vinyl Chloride, Mfl/L	5.0 U	10U	5.0 U	10 U	10 U	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event Date	67 7/18/06	68 8/7/06	69 9/14/06	70 10/12/06	71 11/22/06	72 12/14/06
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4 J	2.3 J	1.3J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0 J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	73	74	75	76	77	78
Date	1/18/07	2/28/07	3/21/07	4/30/07	5/23/07	6/27/07
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.8 J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, pg/L	0.64 J	2.7 DJ	1.5 J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	1.0 DJ	10 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, pg/L	0.78 J	1.3 DJ	10 U	1.1 J	1.2 J	0.67J
Toluene, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	B0	81	82	83	84
Date	7/24/07	8/22/07	9/12/07	10/2007	11/2007	12/2007
Field Influent pH, std pH units	7.57	7.85	7.65	NS	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NS	NS	NS
1,1-Dichloroethane, pg/L	6.6	5.9	7.1	NS	NS	NS
1,1-Dichloroethene, pg/L	5.2	1.0 J	10 U	NS	NS	NS
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10U	NS	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	NS	NS	NS
1,1,1 - Trichloroethane, pg/L	230 D	140 D	160	NS	NS	NS
Trichloroethene, pg/L	0.82 J	0.81J	10 U	NS	NS	NS
Toluene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Total Confident VOCs, pg/L	242.62	147.71	167.1	NS	NS	NS

Sampling Event	85	86	87	88	89	90
Date	1/2008	2/2008	3/2008	4/2008	5/2008	6/2008
Field Influent pH, std pH units	NS	NS	NS	NS	NS	NS
Total Suspended Solids, mg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane, pg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Cis -1,2 - Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Methylene Chloride, pg/L	NS	NS	NS	NS	NS	NS
1,1,1 - Trichloroethane, pg/L	NS	NS	NS	NS	NS	NS
Trichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Toluene, pg/L	NS	NS	NS	NS	NS	NS
Vinyl Chloride, pg/L	NS	NS	NS	NS	NS	NS
Total Confident VOCs, pg/L	NS	NS	NS	NS	NS	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/01	8/8/01	8/18/01	9/18/01	9/27/01	10/5/01
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	15 J	5.0 U	15 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/01	11/8/01	11/28/01	12/13/01	12/27/01	1/18/02
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Data	1/30/02	2/13/02	2/23/02	3/8/02	3/20/02	4/8/02
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	13 J	28 B.J
1,1,1 - Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	ZO/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/02	5/8/02	5/21/02	6/4/02	6/13/02	7/11/02
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/05	9/13/05	12/19/05	3/27/06	6/20/06	9/14/06
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW	48/GW	49/GW
Date	12/14/06	3/21/07	6/27/07	9/12/07	12/2007	3/2008
Field Effluent pH, std pH units	8.36	8.44	8.39	8.63	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS

Sampling Event	50/GW
Date	6/2008
Field Effluent pH, std pH units	NS
Total Suspended Solids, mg/L	NA
1,1-Dichloroethane, pg/L	NS
1,1-Dichloroethene, pg/L	NS
Cis-1,2- Dichloroethene, pg/L	NS
Methylene Chloride, pg/L	NS
1,1,1 - Trichloroethane, pg/L	NS
Trichloroethene, pg/L	NS
Toluene, pg/L	NS
Vinyl Chloride, pg/L	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Field Parameters
Quarterly Sampling Event
June 18, 2008
Byron Barrel and Drum Site
Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW26	0910	13.0	84	7.67	0.7	2.93	1073
	0915	12.8	85	7.66	0.7	2.86	1073
	0920	12.7	86	7.65	0.7	2.82	1073
	0925	12.8	88	7.64	0.7	2.79	1073
	0930	12.7	89	7.63	0.7	2.76	1073
	0935	12.7	91	7.63	0.7	2.73	1073
MW-4-9/GW26	950	13.8	24	7.96	0.7	2.25	1022
	955	13.8	25	7.95	0.7	2.20	1018
	1000	13.7	25	7.90	0.7	2.18	1000
	1005	13.8	26	7.90	0.7	2.15	999
	1010	13.8	25	7.87	0.7	2.10	999
	1015	13.8	25	7.86	0.7	2.07	998
MW-10B-9/GW26	1310	12.8	-89	7.27	0.5	0.96	711
	1315	12.7	-91	7.25	0.5	0.94	713
	1320	12.9	-93	7.20	0.5	0.90	715
	1325	12.8	-93	7.20	0.5	0.88	715
	1330	12.6	-95	7.19	0.5	0.86	715
	1335	12.5	-96	7.19	0.5	0.84	717
PW-1/GW26	1130	13.5	-54	8.15	0.7	2.06	1124
PW-2/GW26	1100	12.9	-92	8.36	0.5	0.99	1530
PW-3/GW26	1200	12.1	9	8.51	0.4	1.17	684

Note: Flow through ceil was calibrated for all chemistry parameters prior to gauging.

N/A = Not Available

Table 4
Groundwater Elevations
June 2008 Sampling Event
Byron Barrel and Drum Site
Byron, NY

Operator: P. Little

Date: 6/18/2008

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	WC,ft.
PW-1	7.19	642.82	635.63	—	<i>m</i>
PW-2	4.24	641.34	637.10	<i>m</i>	<i>m</i>
PW-3	5.53	641.11	635.58	.	.

Monitoring Wells					
MW-1	4.83	639.63	634.80	11.65	6.82
MW-2	11.04	646.36	635.32	15.10	4.06
MW-4	3.48	638.56	635.08	11.50	8.02
MW-10B	9.19	644.44	635.25	20.35	11.16
MW-21	8.02	642.52	634.50	27.90	19.88
Residential	15.76	650.78	635.02	35.17	19.41

Piezometers					
PZ-1	7.41	643.11	635.70	27.02	19.61
PZ-2	7.21	642.39	635.18	27.25	20.04

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Iron (mg/L)	Lead (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Zinc (mg/L)
		Groundwater Cleanup Levels (pg/L):			5	5	NA	5	5	5	5	2
MW-1	3/20/2002	639.63	5.24	634.39	86	49	NA	5 U	1700	2 J	5 U	2 J
	6/12/2002	639.63	5.07	634.56	81	38	NA	5 U	1600	3 J	5 U	5 U
	9/18/2002	639.63	7.15	632.48	13	13 J	NA	5 U J	350	5 U	5 U	5 U
	12/18/2002	639.63	5.62	634.01	42	37 J	NA	25 U	1200	5 J	25 U	25 U
	4/29/2003	639.63	4.53	635.10	57	34	NA	25 U	1300 J	25 U	25 U	25 U
	6/24/2003	639.63	5.36	634.27	32	24	NA	5 U	720	4 J	5 U	5 U
	9/24/2003	639.63	6.72	632.91	24 J	17 J	NA	25 U	580	25 U	25 U	25 U
	12/3/2003	639.63	5.53	634.10	33 J	28 J	NA	40 U	860 J	40 U	40 U	40 U
	3/30/2004	639.63	3.40	636.23	30 J	31	NA	25 U	830 J	25 U J	25 U	25 U
	6/16/2004	639.63	4.20	635.43	26	22 J	NA	25 U J	870	25 U	25 U	25 U
	9/14/2004	639.63	4.56	635.07	28	26	NA	25 U	730	25 U	25 U	25 U
	12/14/2004	639.63	4.61	635.02	31	26	NA	25 U	760	25 U J	25 U	25 U
	3/22/2005	639.63	4.32	635.31	41	110	NA	5 U	830	5	5 U	5 U
	6/7/2005	639.63	5.45	634.18	10 J	14 J	NA	13 J	340	50 U	50 U J	50 U
	9/13/2005	639.63	6.89	632.74	14	16	NA	5 U	410	2 J	5 U J	5 U
	12/20/2005	639.63	4.78	634.85	24 J	24 J	NA	40 U	580	40 U	40 U	40 U
	3/26/2006	639.63	5.07	634.56	29	24	NA	5 U	540	4 J	5 U	5 U
	6/22/2006	639.63	5.68	633.95	7	9	NA	5 U	220	2 J	5 U	5 U
	9/14/2006	639.63	5.15	634.48	5 J	6 J	NA	10 U	190	2 J	10 U	10 U
	12/7/2006	639.63	4.54	635.09	6 J	9 J	NA	10 U	170	2 J	10 U	10 U
	3/22/2007	639.63	4.19	635.44	2 J	4 J	NA	10 U	100	2 J	10 U	10 U
	6/14/2007	639.63	5.30	634.33	6	3 J	NA	5 U	200	2 J	5 U	5 U
	9/12/2007	639.63	6.56	633.07	7 J	3 J	NA	20 U	200	20 U	20 U	20 U
	12/19/2007	639.63	4.95	634.68	10	2 J	NA	10 U	200	2 J	10 U	10 U
	3/26/2008	639.63	4.33	635.30	8 J	3 J	NA	20 U	210	20 U	20 U	20 U
	6/18/2008	639.63	4.83	634.80	19	3 J	NA	10 U	130	1 J	10 U	10 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Sulfate (mg/L)	Chloride (mg/L)	Iron (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Ammonia (mg/L)	Ammonia Nitrogen (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-4	3/20/2002	638.56	4.79	633.77	17 J	14 J	NA	25 U	450	10 J	25 U	25 U
	6/12/2002	638.56	4.48	634.08	3 J	2 J	NA	5 U	83	8	5 U	5 U
	9/18/2002	638.56	6.04	632.52	5 U	5 U J	NA	5 U J	27	5	5 U	5 U
	12/18/2002	638.56	5.22	633.34	40	24	NA	5 U	200	8	5 U	5 U
	4/29/2003	638.56	4.50	634.06	31	13 J	NA	25 U	530	25 U	25 U	25 U
	6/24/2003	638.56	4.58	633.98	5 U J	5 U J	NA	5 U	17 J	4 J	5 U	5 U J
	9/24/2003	638.56	5.91	632.65	35	9 J	NA	10 U	240	8 J	10 U	10 U
	12/3/2003	638.56	4.98	633.58	65	17 J	NA	20 U	550	11 J	20 U	20 U
	3/30/2004	638.56	4.15	634.41	12	5	NA	5 U	130	3 J	5 U	5 U
	6/16/2004	638.56	3.64	634.92	15 J	25 U J	NA	25 U J	150	25 U	25 U	25 U
	9/14/2004	638.56	3.71	634.85	11 J	25 U	NA	25 U	87	25 U	25 U	25 U
	12/14/2004	638.56	3.97	634.59	11 J	25 U	NA	25 U	67	25 U	25 U	25 U
	3/22/2005	638.56	3.55	635.01	50 U	50 U	NA	50 U J	87	50 U	50 U	50 U
	6/7/2005	638.56	4.25	634.31	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	9/13/2005	638.56	5.84	632.72	5 U	5 U	NA	5 U	11	2 J	5 U	5 U
	12/20/2005	638.56	4.75	633.81	4 J	25 U	NA	25 U	48	25 U	25 U	25 U
	3/25/2006	638.56	4.32	634.24	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	6/22/2006	638.56	4.50	634.06	5 U	5 U	NA	5 U	9	1 J	5 U	5 U
	9/14/2006	638.56	3.92	634.64	5 U	5 U	NA	5 U	13	2 J	5 U	5 U
	12/7/2006	638.56	3.64	634.92	25 U	25 U	NA	25 U	6 J	25 U	25 U	25 U
	3/22/2007	638.56	3.24	635.32	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	6/14/2007	638.56	4.50	634.06	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	9/12/2007	638.56	5.30	633.26	5 U	5 U	NA	5 U	14	2 J	5 U	5 U
	12/19/2007	638.56	3.79	634.77	5 U	5 U	NA	5 U	16	1 J	5 U	5 U
	3/26/2008	638.56	2.99	635.57	4 J	20 U	NA	20 U	31	2 J	20 U	20 U
	6/18/2008	638.56	3.48	635.08	4 J	20 U	NA	20 U	16 J	1 J	20 U	20 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia Nitrogen (mg/L)	Iron (mg/L)	Manganese (mg/L)	Copper (mg/L)	Zinc (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 U J	NA	5 U J	7	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U
	9/12/2007	644.44	10.98	633.46	5 U	5 U	NA	5 U	1 J	5 U	5 U
	12/19/2007	644.44	9.54	634.90	64 J	120 U	NA	31 J	1300	120 U	120 U
	3/26/2008	644.44	8.68	635.76	5 U	5 U	NA	5 U	8	5 U	5 U
	6/18/2008	644.44	9.19	635.25	0.4 J	5 U	NA	5 U	5	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Iron (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Total Hardness (mg/L)
		Groundwater Cleanup Levels (VCL):			5	5	NA	5	5	5	5	2
MW-21	3/26/1999	NA	NA	NA	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 U	NA	25 U	25 U	25 U	5BJ	25 U
	9/17/2002	642.52	9.50	633.02	5 U	5UJ	NA	5UJ	5 U	5 U	5 U	5 U
	12/17/2002	642.52	8.23	634.29	5 U	5UJ	NA	5 U	5UJ	5 U	5 U	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	3/30/2004	642.52	7.56	634.96	5UJ	5UJ	NA	5UJ	5UJ	5UJ	5UJ	5UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	12/19/2007	642.52	7.81	634.71	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	3/26/2008	642.52	7.34	635.18	20 U	20 U	NA	20 U	20 U	20 U	20 U	20 U
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	6/12/2002	650.78	15.62	635.16	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	9/17/2002	650.78	17.50	633.28	5 U	5UJ	NA	5UJ	5 U	5 U	5 U	5 U
	12/17/2002	650.78	16.52	634.26	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	4/30/2003	650.78	17.74	633.04	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/30/2004	650.78	15.47	635.31	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2005	650.78	15.24	635.54	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/25/2006	650.78	15.75	635.03	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2007	650.78	15.09	635.69	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/26/2008	650.78	15.25	635.53	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Syron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	•	T-	"o	S	5	1	5	2
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-1	12/21/1998	NA	NA	NA	20 U	5 J	20 U	9BJ	270	11 J	20 U	20 U
	12/27/2001	NA	NA	NA	15	6.2	5 U	5 U	280	5.2	5 U	5 U
	3/20/2002	642.82	NM	NM	11	5	5 U	5 U	320	3 J	5 U	5 U
	6/12/2002	642.82	NM	NM	18	3 J	5 U	5 U	380	2 J	5 U	5 U
	9/18/2002	642.82	NM	NM	12	2 J	5 U	5 UJ	270	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	8	5	5 U	5 U	160	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	11	2 J	5 U	5 U	180	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	12	2 J	5 U	5 U	190	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	8	5 U	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	8	2 J	5 U	5 U	150	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	150	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	380	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	10	2 J	5 U	5 U	210	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	140	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	23	5 U	5 U	200 J	2 J	5 U	5 U
	6/7/2005	642.82	21.50	621.32	10	2 J	10 U	2 U	59	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	73	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	140	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	76	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	77	0.8 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9DJ	25 U	25 U	25 U	230	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	160	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	170	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	280	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5J	10 U	10 U	10 U	130	10 U	10 U	10 U
	12/21/2007	642.82	7.95	634.87	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
	3/26/2008	642.82	7.11	635.71	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	6/18/2008	642.82	7.19	635.63	7	100 U	100 U	100 U	7	100 U	100 U	100 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Ammonia (mg/L)	Chloride (mg/L)	Ammonia (mg/L)	Chloride (mg/L)	Ammonia (mg/L)	Chloride (mg/L)	Ammonia (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-2	12/27/2001	NA	NA	NA	68	23	1.4 J	5 U	960	4 J	5 U	1.1 J
	3/20/2002	641.34	NM	NM	24	13	5 U	5 U	720	2 J	5 U	5 U
	6/12/2002	641.34	NM	NM	18	10	5 U	5 U	370	2 J	5 U	5 U
	9/18/2002	641.34	NM	NM	5	4 J	5 U	5 U J	160	5 U	5 U	5 U
	12/18/2002	641.34	17.68	623.66	12	14	10 U	10 U	280	10 U	10 U	10 U
	4/30/2003	641.34	16.82	624.52	11	6	5 U	5 U	200	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	8	5	5 U	5 U	180	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	6	2 J	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	6	3 J	5 U	5 U	160	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	4 J	3 J	5 U	5 U	140	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	5	5 U	5 U	5 U J	120	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	5	4 J	5 U	5 U	160	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	8	5	5 U	5 U	160	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	5	11	5 U	5 U	140	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	3 J	2 J	5 U	5 U	70	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	3 J	3 J	5 U	5 U	94 J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	1 J	5 U	5 U	5 U	30	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	5	1 J	5 U	5 U	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	4 J	2 J	10 U	10 BL	170	1 J	10 U	10 U
	9/14/2006	641.34	6.75	634.59	3 DJ	1 DJ	10 U	10 U	92	1 DJ	10 U	10 U
	12/7/2006	641.34	6.11	635.23	9 DJ	3 DJ	10 U	10 U	230	2 J	10 U	10 U
	3/22/2007	641.34	4.19	637.15	8 J	4 J	10 U	10 U	90	1 J	10 U	10 U
	6/14/2007	641.34	4.72	636.62	8 J	2 J	20 U	20 U	270	20 U	20 U	20 U
	9/12/2007	641.34	7.97	633.37	5 J	1 J	10 U	10 U	140	10 U	10 U	10 U
	12/21/2007	641.34	6.31	635.03	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
	3/26/2008	641.34	4.19	637.15	250 U	250 U	250 U	250 U	30 J	250 U	29 J	250 U
	6/18/2008	641.34	4.24	637.10	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Copper (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-3	12/27/2001	NA	NA	NA	5U	5U	5U	5U	16	1.7 J	5U	5U
	3/20/2002	641.11	NM	NM	5U	5U	5U	5U	8	1 J	5U	5U
	6/12/2002	641.11	NM	NM	5U	5U	5U	5U	6	5U	5U	5U
	9/18/2002	641.11	NM	NM	5U	5UJ	5U	5UJ	4 J	5U	5U	5U
	12/18/2002	641.11	19.90	621.21	5U	5U	5U	5U	4 J	5U	5U	5U
	4/30/2003	641.11	19.46	621.65	5U	5U	5U	5U	3 J	5U	5U	5U
	6/23/2003	641.11	18.55	622.56	5U	5U	5U	5U	3J	5U	5U	5U
	9/24/2003	641.11	20.97	620.14	5U	5U	5U	5U	2 J	5U	5U	5U
	12/3/2003	641.11	20.28	620.83	5U	5U	5U	5U	3 J	5U	5U	5U
	3/30/2004	641.11	20.52	620.59	5U	5U	5U	5U	2 J	5U	5U	5U
	6/16/2004	641.11	19.65	621.46	5U	5U	5U	5UJ	2 J	5U	5U	5U
	9/14/2004	641.11	20.91	620.20	5U	5U	5U	5U	2 J	5U	5U	5U
	12/14/2004	641.11	18.33	622.78	5U	5U	5U	5U	2 J	5U	5U	5U
	3/22/2005	641.11	22.17	618.94	5U	5U	5U	5U	2 J	5U	5U	5U
	6/7/2005	641.11	20.30	620.81	5U	5U	5U	5U	5U	5U	5U	5U
	9/13/2005	641.11	21.52	619.59	5U	5U	5U	5U	1 J	5U	5U	5U
	12/19/2005	641.11	20.36	620.75	5U	5U	5U	5U	1 J	5U	5U	5U
	3/26/2006	641.11	22.31	618.80	5U	5U	5U	5U	1 J	5U	5U	5U
	6/22/2006	641.11	20.72	620.39	5U	5U	5U	5U	1 J	5U	5U	5U
	9/14/2006	641.11	6.53	634.58	5U	5U	5U	5U	2 J	5U	5U	5U
	12/7/2006	641.11	7.81	633.30	6DJ	2 DJ	5U	5U	170	1 J	5U	5U
	3/22/2007	641.11	5.45	635.66	7	4 J	5U	5U	210	1 J	5U	5U
	6/14/2007	641.11	5.18	635.93	9J	3 J	20 U	20 U	260	20 U	20 U	20 U
	9/12/2007	641.11	7.73	633.38	4J	1 J	10	10	130	10 U	10U	10 U
	12/21/2007	641.11	6.23	634.88	NA	NA	NA	NA	NA	NA	NA	NA
	4/10/2008	641.11	5.48	635.63	0.9 J	5U	5U	5U	24	5U	5U	5U
	6/18/2008	641.11	5.53	635.58	0.6 J	5U	5U	5U	24	5U	5U	5U

Notes:

All concentrations in micrograms per liter (pg/L)

Exceedences of the groundwater cleanup standard are indicated in bold.

NM = Not Measured

NA = Not Available

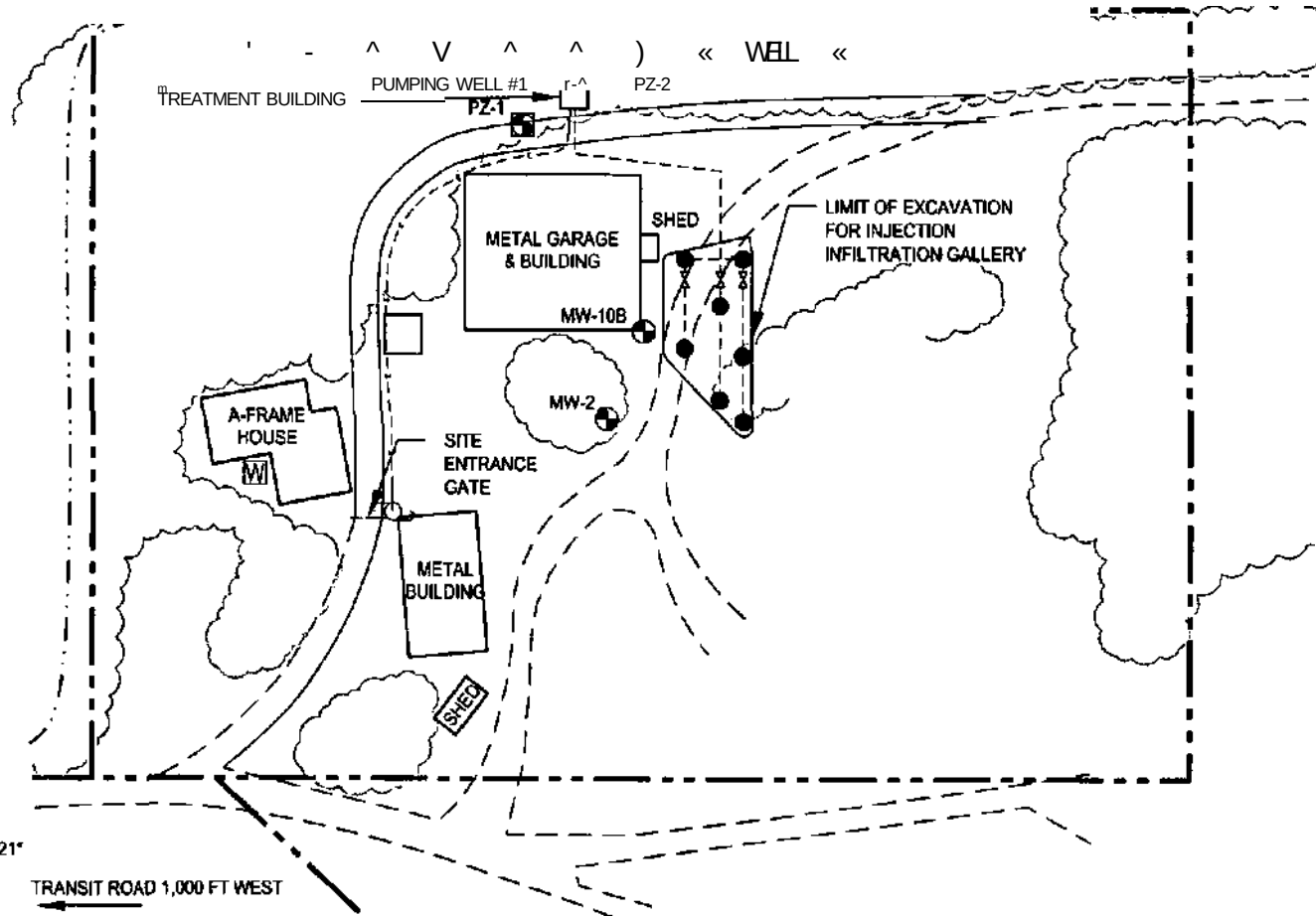
Table 6
Schedule of Sampling and Analysis for 2008
Bryon Barrel and Drum Site
Byron, NY

Month	Event	Wells to be Sampled	Constituents to be Analyzed
March 2008	First Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential PW-1 PW-2	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
June 2008	Second Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
September 2008	Third Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
December 2008	Fourth Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride

FIGURES

OUTFALL 001

DITCH



LEGEND

S

MONITORING WELL

FORMER RESIDENTIAL WELL

PIEZOMETER WELL

INJECTION GALLERY PIEZOMETER WELL

X

INJECTION GALLERY VALVE

©

PUMPING WELL

UTILITY POLE

PROPERTY LINE

FENCE

TREELINE

NEW GRAVEL ROAD

PRE-EXISTING GRAVEL ROAD

DITCH

ELECTRIC & PHONE LINE

REINJECTION PIPING

SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions

1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE

FIGURE

80

07-25-06

1

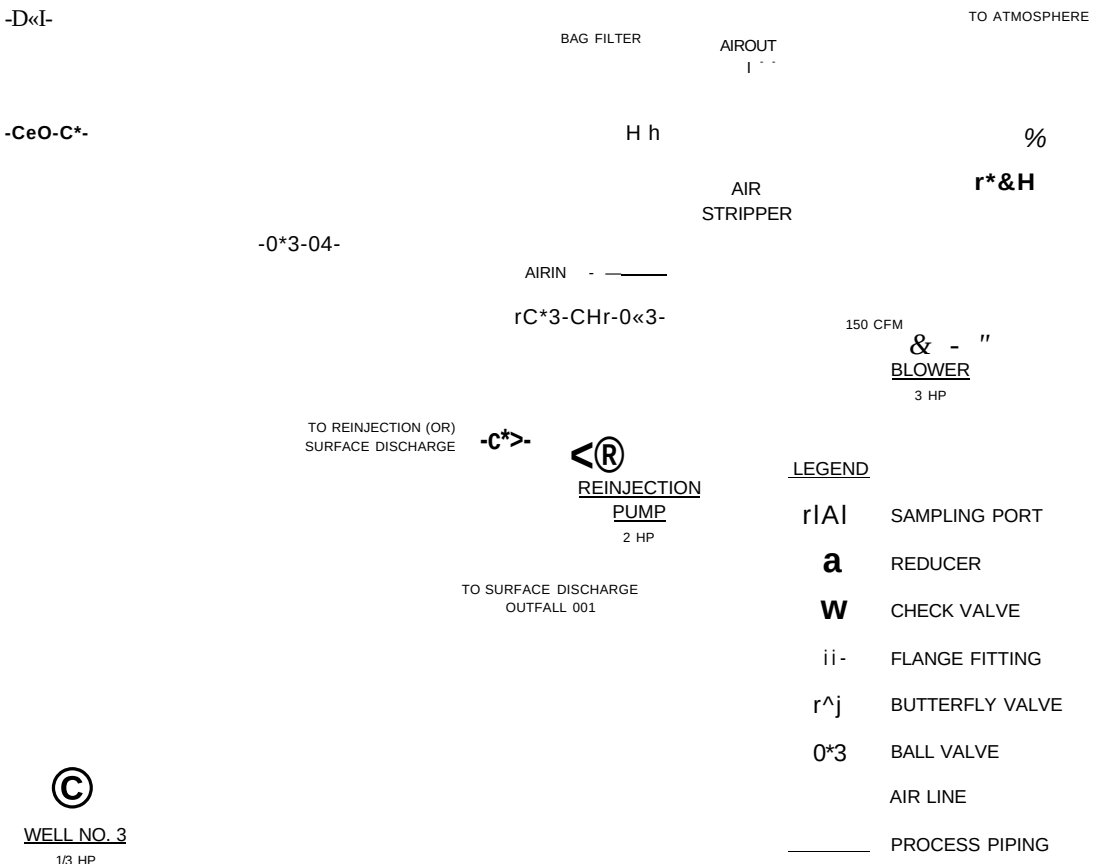
*NOTE- MW-21 IS 200 FEET WEST OF PROPERTY LINE
SOURCE: ERM C/O SERVICES



0
WELL NO. 1
1/3 HP

©
WELL NO. 2
1/3 HP

©
WELL NO. 3
1/3 HP



GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380
SCALE IN FEET 80
DATE 09-02-05
FIGURE 2



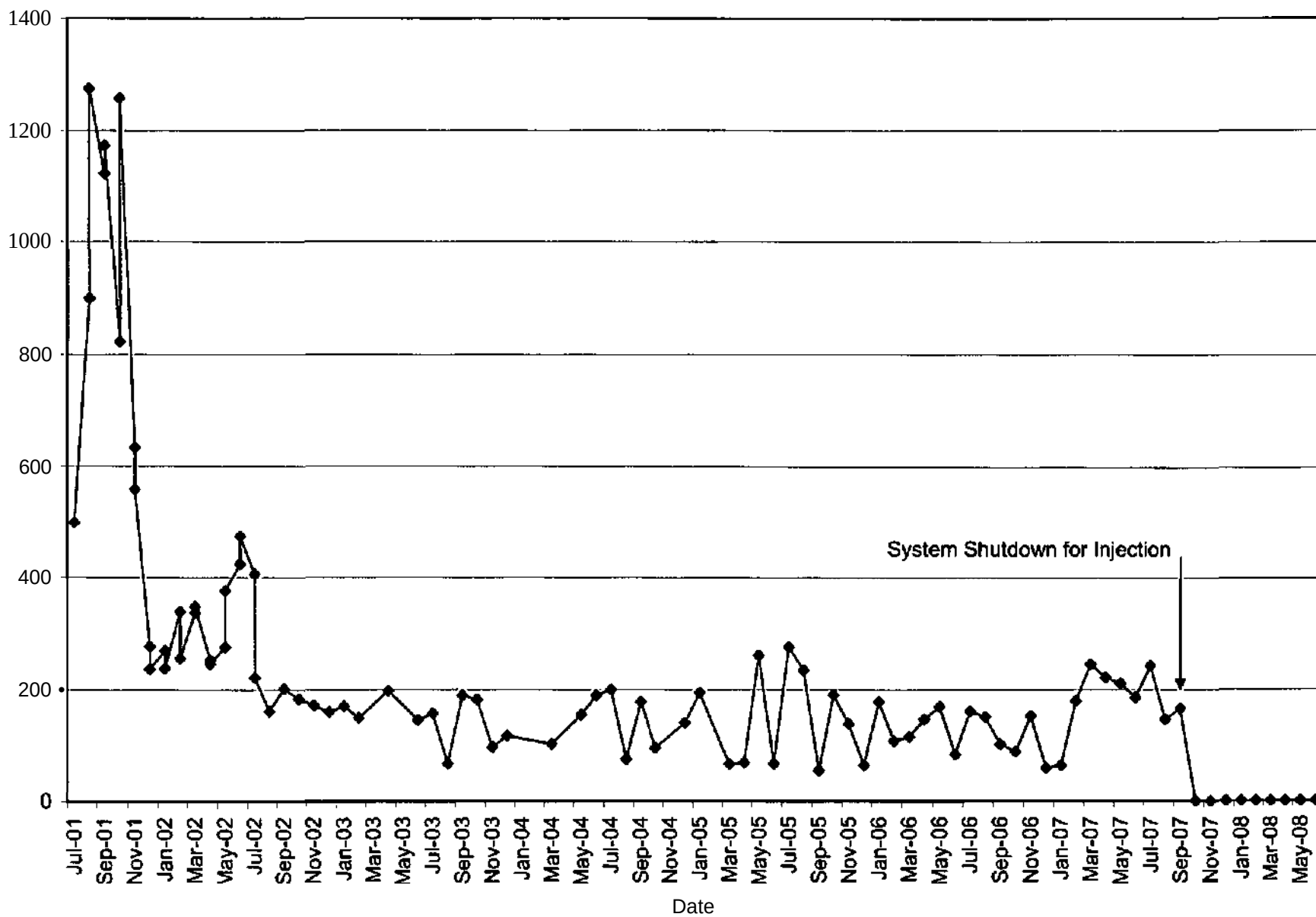
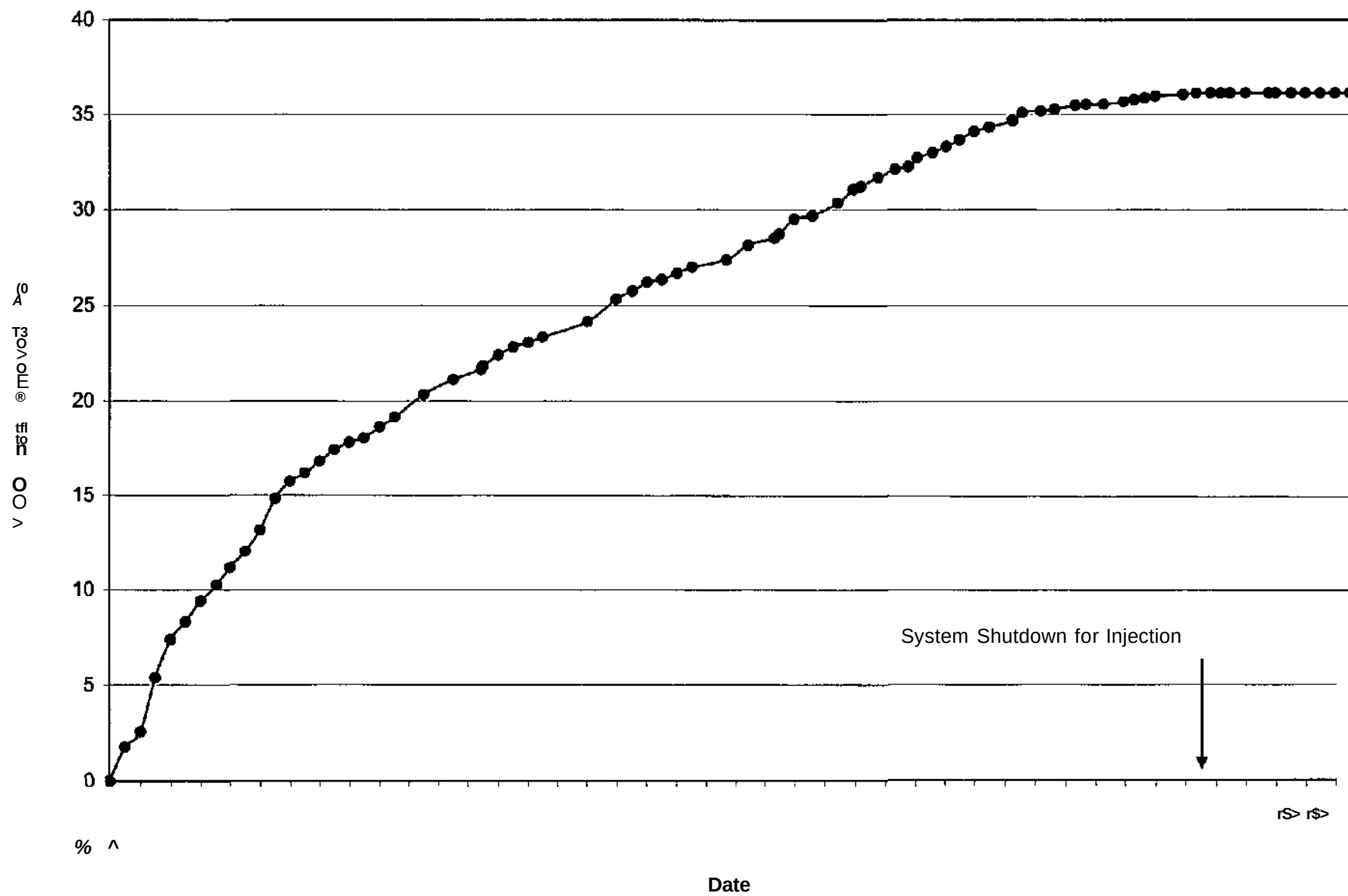


Figure 4
Cumulative VOC Mass Removed
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY



APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: 11/1-0*

Job #: 01501.002

Sample ID: /&&\$*€- f/Ct*s3&

Well ID: /hu/'/*& Time onsite: Time Offsite:

Samplers: f, I^U fipo JY3Q

Depth of Well (from top of casing) ^o-if Time: PfrO

Static water level (from top of casing) ^ / f Time: \$3*0

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS	DO mg/L	Spec. Cond. mS/cm
131"	¥»**/*+.	12-8	-\$1	7.^7	<i>o.r</i>	<i>O-H</i>	<i>in</i>
131 f		12.1	-1/	7-2-T	<i>o.r</i>	<i>o.iy</i>	<i>us</i>
133°		12.1	-13	7.20	<i>o.s</i>	<i>etc</i>	<i>1'f</i>
13W		17-6	^3	1.2c	<i>c.r</i>	<i>G-is</i>	<i>l i f</i>
133°		11.C	- ^	V	<i>OX</i>	<i>0-8^E</i>	<i>~?/r</i>
133*	>j	12.S	-<}{,	<i>n.ii</i>	<i>oS</i>	<i>0.8 V</i>	<i>7/7</i>

Sampling:

Time of Sample Collection		/ 3 3 5	
Collection Method:		Analyses:	Analytical Method:
X	Dedicated pump	X VOCs	8260 X 503 Other.

Observations:

Weather/Temperature:			
Sample Description:			
Free Product?	Yes	No	^ Descript.:
Sheen?	Yes	No	-^ Descript.:
Odor?	Yes	No	x Descript:

Comments:

£>** U>c4

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum

Date: £.&-o&

Job #: 01501.002

Sample ID: /r W - / ~ f/ £*" -?£

Well ID: fAw-l

Time onsite: Time Offsite:
/too

Samplers: \$ j i~(H<

09 e° *-M&r

Depth of Well (from top of casing) ll. t)'

Time: //fr3

Static water level (from top of casing) tj.&3

Time: ojpo

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
0 9®	3 o / m - / / w	l3.o	ffY	7.6-1	on	:?.*J	/07J
0<t<*		12-8	es-	l.ii	0.7	Z.8C	loll
ote°		(2.1	8*	l.(S	o.l	3.6-^	f0 73
09 zf		13.. B	&6	7.CV	0.1	•Z.Ti	t oil
on*		lZ~?	61	7. £3	0.1	3.1 C	/0->5
Oil*		an	11	7.6-3	0.1	?•->?	1013

Sampling:

Time of Sample Collection	0 f J j f			
Collection Method:	Analyses:	Analytical Method:		
X Dedicated pump	X VOCs	8260 X	503	Other

Observations:

Weather/Temperature: Ci>>*t* Sj*

Sample Description: etc

Free Product?	Yes	No y<	Descript:
Sheen?	Yes	No ^	Descript.:
Odor?	Yes	No <	Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: 6-ff- * &

Job #: 01501.002

Sample ID: p\u/-Y~^ / ^ v - ^ /

Well IP: / n ^ - *j Time onsite: Time Offsite:

Samplers: > ^ / / ^ t <j<*D tivT

Depth of Well (from top of casing) /Av=> Time: iz*/7

Static water level (from top of casing) S-VB Time: ^fr^

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmin) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
CjjO		/*<?^	2Y	716	* 7	Z?r	/*>-?*
Cjff		(OS	^	7.f5"	£7	XRo	/o/g
loO<>		ni	Ar	7f	on	Z-i£	1 oco
/6<S/		13-8	^ ^	7f°	on	Zis'	???
/o/°		138	^ r	7 £7	on	«?.°	???
/fc/>"	J	IZ.B	^ s'	•7.#£	on	2.0~>	71&

Sampling:

Time of Sample Coliectio }bl5

Collection Method:

Analyses:

Analytical Method:

X Dedicated pump

X VOCs

8260 X 503 Other

Observations:

Weather/Temperature:

Sample Description:

Free Product?

Yes

No 7^

Descript:

Sheen?

Yes

No X

Descript.:

Odor?

Yes

No A

Descript.:

Comments:

fuP J*""* fD/L VO*?f

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator: l V - l ' * » <
Date: f-jS-eB

<u>Pumping Wells</u>	<u>DTW</u>	TOC	GW	<u>yp</u>	<u>wc</u> <u>ft</u>
		<u>Elevation</u>	<u>Elevation</u>		
PW-1	i-n	642.82	63ZL3	"	.
PW-2	V-IY	641.34	C27Jo	m	m
PW-3	X-TJ	641.11	£irs\$	m	=

<u>Monitoring Weils</u>					
MW-1	V*3	639.63	CIV&	tt.tr	£.02.
MW-2	U***	646.36	CIS. 3 *	/s:/o	y.Q*
MW-4	3>V8	638.56	£%r.o6	ti-sr>	&.**
MW-10B	q./t	644.44	4&* ^r	go.if	//. It
MW-21	3>C7k	642.52	6ZH.ro	21'S?	/?.S7
Residential	if. It	650.78	^3r.cx	3& ⁿ	I%HI

<u>Piezometers</u>					
PZ-1	n.ij	643.11	C3m*	21<ox	n.if
PZ-2	l^f	642.39	tis.ts	J21. 2<f	Jo.tl

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	pH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
PW-1/GW j£	1130	13^	-5V	e.*r	0.1	^0C	<i>iwi</i>
PW-2/GW «? ^	1100	&. 9	-fz	8.3C	df	'?<}	<i>tslo</i>
PW-3/GW.?^	13.00	/2.f	?	g,rf	o,y	Ul	<i>Csi</i>

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

APPENDIX B
Data Validation Report

Project: Byron Barrel and Drum Site
Laboratory: Test America
Sample Delivery Group: A08-7098
Fraction: Organic
Matrix: Aqueous
Report Date: 9/22/2008

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Test America.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

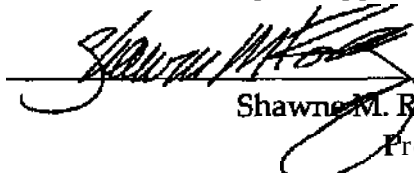
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HW-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

- X Data Completeness
- X Chain of Custody Documentation
- X Holding Times
- X Instrument Performance
- X Initial and Continuing Calibrations
- X Laboratory and Field Blank Analysis Results
- X Surrogate Compound Recoveries
- X Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
- X Field Duplicate Analysis Results
- X Laboratory Control Sample Results
- X Internal Standard Performance
- X Qualitative Identification
- X Quantitation/Reporting Limits_____

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:


 Shawn M. Rodgers
 President

?/<zzM?3^

Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples MW-4-9/GW-26 and DUP-9/GW-26 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. Results for the duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds to evaluate aqueous field duplicate samples

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTTTATION/REPORTING UMTTS*

The following samples were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target

compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

<u>Sample</u>	<u>Dilution Factor</u>
MW-1-9/GW-26	2.0
DUP-9/GW-26	4.0
MW-4-6/GW-26	4.0
PW-1/GW-26	20.0
PW-2/GW-26	50.0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition. Promulgated Updates II, HA, and m, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4r79-020, March 1983, and revisions

Table 2 Field Duplicate Sample Results for Organic Analyses
Duplicate Samples MW-4-9/GW-26 and DUP-9/GW-26

	MW-4-9/GW-26 <pg/L)		DUP-9/GW-26 (jig/L)		RPD	Comments
1,1-Dichloroethane	4	J	3	J	28.6	
1,14-Trichloroethane	16	J	16	J	0.0	
Trichloroethene	1	J	1	J	0.0	

Table 1 Samples For Data Validation Review
Byron Barrel and Dram Site
Groundwater Samples Collected June 2008
Test America Sample Delivery Group A08-7098

SAMPLE I.D.	LABORATORY I.D		DATE COLLECTED	MATRIX	ANALYSES PERFORMED	
					VOC	TSS
MW-1-9/GW-26	A87098	1	6/18/2008	Groundwater	X	
MW-4-9/GW-26	A87098	2	6/18/2008	Groundwater	X	
DUP-9/GW-26	A87098	2	6/18/2008	Groundwater	X	
MW-10B-9-/GW-26	A87098	3	6/18/2008	Groundwater	X	
PW-1/GW-26	A87098	4	6/18/2008	Groundwater	X	X
PW-2/GW-26	A87098	5	6/18/2008	Groundwater	X	X
PW-3/GW-26	A87098	6	6/18/2008	Groundwater	X	X
Trip Blank	A87098	8	6/18/2008	Trip Blank	X	

VOC: Volatile Organic Compounds

TSS: Total Suspended Solids

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ECCR scmncNS
ECCR SOLOTICNS
AQtkXB ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DMA SHEET

Client No.

DUP-9/GW-26

Tab Name: Testftmerjra Tahnrratories Inc. Contract:Lab Code: RBCMY Case No.: _____ SAS No.: _____ SDGNb.: 061808Matrix: (soil/water) WHERLab Sample ID: AB709807Sample wt/vol: 5.00 (g/mL) MLLab File 3D: P8894.HRlevel: (low/med) ICWDate Sanp/fcecv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/27/2008OC Column: ZB-624 ID: 0.25 (mm)Dilution Factor: 4.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kj) UG/L

75-34-3	1A-Dichlaroethane	3	J
75-35-4	1A-Dichloroethene	20	U
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	U
71-55-6	1,1,1-Trichloroethane	16	J
79-01-6	Trichloroethene	1	J
75-01-4	-Vin/1 chloride	20	U
71-43-2	Benzene	20	U
1330-20-7	Total xylenes	60	U
108-90-7	Chlorobenzene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
107-06-2	1,2-Dichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
67-66-3	Chloroform	20	U
75-27-4	BrcmooMiloraTietbane	20	U
124-48-1	Dibixnicchlcaxiethane	20	U
78-93-3	2-Butanane	40	U
•ifi-2^5	rfcrhnn W-rachlnricte	20	U
95-50-1	1,2-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U

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EOR SOLUTIONS
BOCR SOLUTIONS
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-26

lab Name: TestAmerica Laboratories Inc. Contract:Lab Code: RBOJY Case No.: _____ SAS No.: _____ SLTGNNo.: 061808Matrix: (soil/water) WATERLab Sample 3D: A8709801Sample wt/vol: 5.00 (g/mL) MLLab File ID: P8919.RRLevel: (low/med) LCFEBte Samp/Recv: 06/18/2008 06/18/2008% Moisture: not dec. _____ Heated Purge: NDate Analyzed: 06/28/2008GC Column: ZB-624 ID: 0.25 (mm)Dilution Factor: 2.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

03*3NTRATION HOTS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	• Q
75-34-3	1,1-Dichloroethane		19	
75-35-4	1,1-Dichloroethene		3	J
75-09-2	Methylene chloride		10	U
108-88-3	Toluene		10	U
71-55-6	1,1,1-Trichloroethane		130	
79-01-6	Trichloroethene		1	J
75-01-4	Vinyl chloride		10	U
71-43-2	Benzene		10	U
1330-20-7	Total Xylenes		30	U
108-90-7	Chlorobenzene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
107-06-2	1,2-Dichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
67-66-3	Chloroform		10	U
75-27-4	1,1,1,2-Tetrachloroethane		10	U
124-48-1	1,1,2,2-Tetrachloroethane		10	U
78-93-3	2-Butanone		20	U
56-23-5	Carbon Tetrachloride		10	U
95-50-1	1,2-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U

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17/247

EOCR SOLUTIONS
ECCR samnasis
AQUOUS ASP 2000/8260 - SELECT LISTXffible 5
ANALYSIS DATA SHEET

Client No.

M*-4-6/GW-26

Lab Items: TestAmerica Laboratariea Inc.

Contract:

Lab Code: RBCNY

Case Nb.:

SAS Nb.:

SDGNb.: 061808Matrix: (soil/water) WffTBlLab Sanple ID: A8709802Sample wt/vol: 5.00 (g/mL) £JLLab Pile ID: P8886.RRLevel: (low/ned) JfWDate Sanp/Recv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/27/2008GC Column: 2B-624 ID: 0.25 (nm)Dilution Factor: 4.00

Soil Extract Voluae: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	U3/L	Q
75-34-3	1,1-Dichloroethane		4	
75-35-4	1,1-Dichloroethene		20	U
75-09-2	Methylene chloride		20	u
108-88-3	Tbluene		20	u
71-55-6	1,1^1-Trichloroethane		16	J
79-01-6	Trichloroethene		1	J
75-01-4	Vinyl chloride		20	u
71-43-2	Benzene		20	u
1330-20-7	Total Xylenes		60	u
108-90-7	Chlorobenzene		20	u
79-00-5	1,1,2-Trichlcroethane		20	u
107-06-2	1,2-mchloroethane		20	u
127-18-4	Tetrachloroethene		20	u
67-66-3	Chloroform		20	u
75-27-4	Bromodichloromethane		20	u
124-48-1	Dibxanochlanonietharie		20	u
78-93-3	2-Butanone		40	u
56-2VS	Carhrm TRtrachloririe		20	u
95-50-1	1,2-Dichlarobenzene		20	u
106-46-7	1,4-Dichlcrcibenzene		20	u

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BCER scauncKS
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-10B-9/GW-26

Lab Name: TestAmerica Laboratories Inc. Contract:Lab Code: EBONY Case No.: _____ SASNb.: _____ SDGNb.: 061808Matrix: (soil/water) WKIERLab Sample ID: A8709803Sample wt/vol: 5.00 (g/mL) MLLab File ID: P8887.RRLevel: (low/med) LOWDate Samp/Recv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/27/2008GC Column: ZB-624 3D: 0.25 (nm)Dilution Factor: 1-00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

O^ACENIEATICN UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
75-34-3	1 ^A -I ^A chloroethane	0.4	J	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene chloride	5	u	
108-88-3	Toluene	5	u	
71-55-6	1A/1-Trichloroethane	5		
79-01-6	Trichloroethene	5	u	
75-01-4	Vinyl chloride	5	u	
71-43-2	Benzene	5	u	
1330-20-7	Total Xylenes	15	u	
108-90-7	Chlorobenzene	5	u	
79-00-5	1,1,2-Trichloroetbane'	5	u	
107-06-2	1,2-mchloroethane	5	u	
127-18-4	Tetrachloroethene	5	u	
67-66-3	Chloroform	5	u	
75-27-4	Brcniodichlorarethane	5	u	
124-48-1	Ddbrariochlarane1±iane	5	u	
78-93-3	2-Butanone	10	u	
56-23-5	Carbon Tetrachloride	5	u	
95-50-1	1,2-mdhlorobenzene	5	u	
106-46-7	1,4-Dichlorobenzene	5	u	

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9/21/2008

18/247

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 EKXR SQUJTCWS
 AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMEDS
 ANALYSIS DMA SHEET

Client No.

EW-I/GW-26

Tah Name: TtestAmerlca laboratories Inc. Oontract:Lab Code: gEOff Case No.: _____ SAS No.: _____ SDGNo.: 061808Matrix: (soil/vater) WB3ERLab Sample ID: A8709804Sample wt/vol: 5.00 (g/mLj \$4Llab Kile ID: P8920.ERLevel: (low/mad) IEWDate Samp/Recv: 06/18/2008 06/1B/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/28/2008GC Column: ZB-624 ID: 0.25 (mODilution Factor: 20.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

COCENTIKATCN UNITS:

CAS NO.	COMPOUND	(ug/L or ug/K£)	UG/L	Q
75-34-3	1,1-Dichloroethane		7	J
75-35-4	1,1-Dichloroethene		100	U
156-59-2	cis-1,2-Dichloroethene		100	U
75-09-2	Methylene chloride		100	U
108-88-3	Toluene		100	U
71-55-6	1,1,1-Trichloroethane		7	J
79-01-6	Xrichlctroethene		100	U
75-01-4	-Vinyl chloride		100	U

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9/21/08

19/247

ECOR SOLUTIONS

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AQUEOUS ASP 2000/8260 - SEEBCTLISTT - 8 CMHS
ANALYSIS DKTA SHEET

Client No-

PW-2/GW-26

Lab Name: TeatAmsrica laboratoriea Inc. Contract:Lab Code: REQ3Y Case No.: _____ Sfis No.: _____ SDGNO.: 061808Matrix: (soil/water) WKIERLab Sample ID: AB709805Sample wt/vol: 5.00 (g/ml) MLLab File 3D: P8921.RRLevel: (low/hed) LOWDate Sanp/Kecv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/28/2008GC Column: 2B-624 3D: 0.25 (im)Dilution Factor: 50.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kfct) U3/L

75-34-3	1,1-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
75-09-2	Methylene chloride	250	U
108-88-3	Toluene	250	U
71-55-6	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
75-01-4	Vinyl chloride	250	U

AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMEBS
ANALYSIS DATA SHEET

Client No.

PW-3/GH-26

lab Name: TestATnerire Tahnrtoriea Inc. Cbnttract:Lab Ctde: E@at Case No.: _____ SAS No.: _____ SDGNb.: 061808Matrix: (soil/water) WBTBLab Sample ID: A8709806Sample wt/vol: 5.00 (g/mL) JCJLab File ID: P8893.RRLevel: (lcw/med) LCWDate Samp/Recv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N.

Date Analyzed: 06/27/2008GC Column: 7B-624 ID: 0.25 (ran)Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION RESULTS:

CAS NO.	COMPOUND	(ug/L or VQ/YQ)	UG/L	Q
75-34-3	1,1-Dichloroethane		0.6	J
75-35-4	1,1-Dichloroethene		5	U
156-59-2-1	cis-1,2-Dichloroethene		5	U
75-09-2	Methylene chloride		5	U
108-88-3	Toluene		5	U
71-55-6	1,1,1-Trichloroethane		24	
79-01-6	Trichloroethene		5	U
75-01-4	Vinyl chloride		5	U

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ECCR SCLUTICNS
BCCR SCLUTICNS
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No,

Trip Blarik

Lab Name: Testflrnerica. Laboratories Inc. Ctantract:Lab Ctode: RKarc CaseNb.: _____ SASNb.: _____ EIX3 No.: 061808Matrix: (soil/water) WATERLab Sample ID: A8709808Sample wt/vol: 5.00 (g/ml) MLLab Pile ID: P8895.RRLevel: (lcw/med) LOWDate Sanp/Recv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/27/2008GC Column: ZB-624 ID: 0.25 (mODilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: 1 (uL)

CXNCENTRATION UNITS:

CAS NO.	CTMPCUND	(ug/L or ug/Kfcr)	UG/L	Q
75-34-3	1,1-Dichloroethane	5	5	U
75-35-4	1,1-Dichloroethene	5	5	U
75-09-2	Methylene chloride	5	5	U
108-88-3	Toluene	5	5	U
71-55-6	1,1/ 1-Trichloroethane	5	5	U
79-01-6	Trichlacoethene	5	5	U
75-01-4	Vinyl chloride	5	5	U
71-43-2	Benzene	5	5	U
1330-20-7	Total Xylenes	15	15	U
108-90-7	Chlorobenzene	5	5	U
79-00-5	1,1,2-Tcichloroethane	5	5	U
107-06-2	1,2-Dichloroethane	5	5	U
127-18-4	Ttetrachloroethene	5	5	U
67-66-3	Chloroform	5	5	U
75-27-4	BrcncdichloraiEthane	5	5	U
124-48-1	Dibrcmochloromethane	5	5	U
78-93-3	2-Butanone	10	10	U
56-23-5	Carbon Tetrachloride	5	5	U
95-50-1	1,2-Dxchlorobenzene	5	5	U
106-46-7	1,4-Dichlorobenzene	5	5	U

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BCQR SOURCES
EOCR SOLUTIONS
AQUADUS ASP 2000/8260 - am JOT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

Volatile Ifolding Blk

Lab Name: TestAmerira t^>vTrataries Inc. Contract:Lab Oode: REQBY Case No.: _____ SAS No.: _____ SDGNb.: 061808ffetrix: (soil/water) WRITERLab Sanple ID: A8709809Sanple wt/vol: 5.00 <g/mL) JfLLab File ID: F8896.KRLevel: (lcw/med) LCWDate Sarrp/Recv: 06/18/2008 06/18/2008

% Moisture: not dec. _____ Hsated Purge: J?

Date Analyzed: 06/27/2008GC Oolurrrn: ZB-624 ID: 0.25 (um)Dilution Factor: 1.00

Soil Extract Volurre: _____ (uL)

Soil Aliquot Volume: _____ (uL)

a^CHnRAITCN UNITS:

CBS NO.	COMPOUND	(ug/L or VQ/YQ)	UG/L	Q
75-34-3	1,1-Dichloroethane	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-09-2	Methylene chloride	5	U	
108-88-3	Toluene	5	U	
71-55-6	1a/l-Trichloroethane	5	U	
79-01-6	Trichloroethene	5	U	
75-01-4	Vinyl chloride	5	U	
71-43-2	Benzene	5	U	
1330-20-7	Total Xylenes	15	U	
108-90-7	Chlorobenzene	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
107-06-2	1,2-Dichloroethane	5	U	
127-18-4	Tetrachlcroethene	5	U	
67-66-3	Chlorofoirm	5	U	
75-27-4	HLutuoicliLuLurieUkuie	5	U	
124-48-1	Dibromochlrcrcinethane	5	U	
78-93-3	2-Butancme	10	U	
56-23-5	Carbon Tetrachloride	5	U	
95-50-1	1,2-mcfclrrc benzene	5	U	
106-46-7	l, 4-Pichlorobpnzpine	5	U	

Ecor Solutions
Ecor Solutions
Wet Chemistry Analysis

23/247

Client Sample No.

PW-I/GW-26

Lab Name: TestAmerica Laboratories Inc.

Contract:

Lab Qxte: HECNY Case No.: _____

SAS No.: _____ SPG NO.: 061808

Matrix (soil/water): WATER

Lab Sample 3D: A8709804

% Solids: _____ 0.0

Date Samp/Recv: 06/18/2008 06/18/2008

Parameter Name	units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	136				2540D	06/20/2008

Remarks:

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9/2/2008

Ecor Solutions
Ecar Solutions
Wet Chemistry Analysis

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Client Sample No.

PW-2/OM-26

Lab Name: TestAmerica Laboratories Inc.

Contract:

Lab Code: RECNY

Case No. -. _____

SAS No.: _____ SDGNb.: 061808

Matrix (soil/water): WATER

Lab Sample ID: A8709805

% Solids: 0.0

Date Samp/Recv: 06/18/2008 06/18/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
"total Suspended Solids	M3/L	349				2540D	06/20/2008

Comments:

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9/18/08

Eoor Solutions
Ecor Solutions
Wet Chemistry Analysis

25/247

Client Sample No.

EW-3/GW-26

Lab Kane: Testftnerica Laboratories Inc.

Cbnttract:

Lab Code: KBCNY Case No.: _____

SAS No.: _____SDGNo.: 061808

Matrix (soil/water): HaiER

Lab Sample ID: A8709806

% Solids: 0.0

Date Samp/Recv: 06/18/2008 06/18/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			254 0D	06/20/2008

Conrnents:

SM
9/20/08

APPENDIX C
ISRT Analytical Data

rare"! 07/U7/2008
Time: 11:46:14

Ecor Solutions
BYRON SITE - Aqueous
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE

Rept: AN0326

Client ID Job No Sample Date		Lab ID		MW-1-9/GW-26 A08-7101 06/18/2008		A8710101		HW-10B-9/GW-26 A08-7101 06/18/2008		A8710102		MW-4-9/GW-26 A08-7101 06/18/2008		A8710103		PW-1/GW-26 A08-7101 06/18/2008		A8710104	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Ethane		UG/L		ND		1.5		ND		7.5		ND		1.5		ND		75	
Ethene		UG/L		ND		1.5		ND		7.5		ND		1.5		ND		75	
Methane		UG/L		ND		1.0		41		5.0		1.5		1.0		920		50	

Client ID Job No Sample Date		Lab ID	PW-2/GW-26 A08-7101 06/18/2008		A8710105					
Analyte		Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ethane		UG/L	ND	750	NA		NA		NA	
Ethene		UG/L	ND	750	NA		NA		NA	
Methane		UG/L	3400	500	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

TestAmerica Lab

Client ID Job No Sample Date		Lab ID		MW-1-9/GW-26 A08-7104 06/18/2008	A8710401	HW-10B-9/GW-26 A08-7104 06/18/2008	A8710403	MW-4-9/GW-26 A08-7104 06/18/2008	A8710402	PW-1/GW-26 A08-7104 06/18/2008	A8710404
Analyte		Units		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Carbon Dioxide		UG/L		74000	10000	30000	10000	85000	10000	220000	50000

Client ID Job No Sample Date		Lab ID		PW-2/GW-26 A08-7104 06/18/2008	A8710405						
Analyte		Units		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Carbon Dioxide		UG/L		180000	10000	NA		NA		NA	

Date: 07/07/2008
Time: 11:46:21

Ecor Solutions
BYRON SITE - Aqueous
BYRON - SH8A63-6010 TOTAL FE,MN - W

Rept: AN0326

Client ID Job No Sample Date		Lab ID		MH-1-9/GW-26 A08-7101 06/18/2008		A8710101		MW-10B-9/GW-26 A08-7101 06/18/2008		A8710102		MW-4-9/GW-26 A08-7101 06/18/2008		A8710103		PVM/GW-26 A08-7101 06/18/2008		A8710104	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - Total		MG/L		6.0		0.050		5.5		0.050		8.4		0.050		48.2		0.050	
Manganese - Total		MG/L		1.1		0.0030		0.73		0.0030		0.78		0.0030		8.0		0.0030	

Client ID Job No Sample Date		Lab ID		PW-2/GW-26 A08-7101 06/18/2008		A8710105													
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - Total		1%/L		105		0.050		NA				NA				NA			
Manganese - Total		MG/L		6.4		0.0030		NA				NA				NA			

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Date: 07/07/2008
Time: 11:46:21

Ecor Solutions
BYRON SITE - Aqueous
BYRON - SU8463- 6010-DISSOLVED FE, MN

Rept: AN0326

Client ID Job No Sample Date		Lab ID		MW-1-9/GW-26 A08-7101 06/18/2008		A8710101		MW-10B-9/GW-26 A08-7101 06/18/2008		A8710102		MW-4-9/GW-26 A08-7101 06/18/2008		A8710103		PW-1/GW-26 A08-7101 06/18/2008		A871010A	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - soluble		MG/L		5.8		0.050		2.2		0.050		A.9		0.050		48.4		0.050	
Manganese - Soluble		MG/L		1.1		0.0030		0.66		0.0030		0.73		0.0030		8.1		0.0030	

Client ID Job No Sample Date		Lab ID		PW-2/GW-26 A08-7101 06/18/2008		A8710105													
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - Soluble		MG/L		54.2		0.050		NA				NA				NA			
Manganese - Soluble		HG/L		7.2		0.0030		NA				NA				NA			

Date: 07/07/2008
Time: 11:46:26

Ecor Solutions
BYRON SITE - Aqueous
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date		Lab ID		PIW-1-9/GW-26 A08-7101 06/18/2008		A8710101		MW-1-9/GH-26 A08-7101 06/18/2008		A8710101RE		HW-10B-9/GVI-26 A08-7101 06/18/2008		A8710102		MW-4-9/GW-26 A08-7101 06/18/2008		A8710103	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Biochemical Oxygen Demand	MG/L	80.6 E	2.0	88.5	20.0	30.9	2.0	79.8 E	2.0										
Chemical Oxygen Demand	HG/L	110	10	NA		59.3	10	261	10										
Chloride	MG/L	7.8	2.5	NA		5.6	2.5	6.2	2.5										
Nitrate-Nitrite	MG/L-N	ND	0.050	NA		ND	0.050	0.062	0.050										
Sulfate	MG/L	ND	5.0	NA		ND	5.0	ND	5.0										
Sulfide	MG/L	ND	1.0	NA		ND	1.0	ND	1.0										
Total Kjeldahl Nitrogen	MG/L-N	ND	0.20	NA		1.1	0.20	ND	0.20										
Total Organic Carbon	MG/L	38.2	1.0	NA		15.0	1.0	38.8	1.0										
Total Phosphorous	MG/L-P	ND	0.010	NA		0.036	0.010	ND	0.010										

Client ID Job No Sample Date		Lab ID		HH-4-9/GH-26 A08-7101 06/18/2008		A8710103RE		PH-1/GW-26 A08-7101 06/18/2008		A8710104		PW-1/GH-26 A08-7101 06/18/2008		A8710104RE		PH-2/GW-26 A08-7101 06/18/2008		A8710105	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Biochemical Oxygen Demand	MG/L	199	20.0	787 E	2.0	1970	100	770 E	2.0										
Chemical Oxygen Demand	MG/L	NA		9140	500	NA		36100	1000										
Chloride	HG/L	NA		14.6	2.5	NA		47.8	2.5										
Nitrate-Nitrite	MG/L-N	NA		ND	0.050	NA		3.7	0.25										
Sulfate	HG/L	NA		30.4	5.0	NA		8.9	5.0										
Sulfide	HG/L	NA		ND	1.0	NA		2.0	1.0										
Total Kjeldahl Nitrogen	HG/L-N	NA		1.1	0.20	NA		0.47	0.20										
Total Organic Carbon	HG/L	NA		356	10	NA		484	10										
Total Phosphorous	HG/L-P	NA		0.13	0.010	NA		9.7	0.20										

Client ID Job No Sample Date		Lab ID		PW-2/GW-26 A08-7101 06/18/2008		A8710105RE		PH-3/GW-26 A08-7101 06/18/2008		A8710106									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Biochemical Oxygen Demand	MG/L	20338 E	2.0	NA				NA											
Total Organic Carbon	MG/L	NA		1.8	1.0			NA											

NA = Not Applicable ND = Not Detected

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DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

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

INORGANIC DATA QUALIFIERS

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

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QC Requirements (Specify)

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Environmental
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21 S. High St, 2nd Floor
West Chester, PA 19382
(484)887-7510
(484) 887-7517 (fax)



ECOR
Solutions, Inc.

January 14, 2009

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: Third Quarter 2008 Report
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the Third Quarter of 2008. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

r

JAN 27 2009

Matthew Lapp
Project Engineer

cc: Mr. John Grathwol - NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
Keith Rapp - ECOR Solutions
Project File - ECOR Solutions

Final
BYRON BARREL & DRUM SITE
QUARTERLY REPORT
THIRD QUARTER 2008

Byron Barrel & Drum Site
Area 2
Byron, New York

December 31, 2008

Prepared for:
BYRON BARREL & DRUM PRP GROUP

Prepared by:
ECOR Solutions, Inc.
1075 Andrew Drive, Suite I
West Chester, PA 19380

JAN 27 2009



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1.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the third quarter 2008. The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the second calendar quarter of 2008. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

1.1 SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. A Site map is provided as **Figure 1**. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of two additional groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

The Remedial Design was altered in late 2007 with the injection of carbon substrate to enhance in-situ bioremediation

1.2 CHRONOLOGY OF EVENTS

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	Date	Notes
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11, 2001	
RA Construction	June 11-July 15, 2001	
Initial UZ Soil Sampling Event	June 27, 2001	
EPA RA Pre-Final Inspection	July 19, 2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous 0 & M	October 1, 2001	Continuous Operation
EPA Interim Inspection	July 17, 2002	
Second UZ Soil Sampling Event	August 14, 2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12, 2007	
In-Situ Bioremediation Injection Event	September 18-20, 2007	
Preliminary Injection monitoring samples collected in addition to groundwater VOC samples	December 19-21, 2007	
Injection monitoring samples collected in addition to groundwater VOC samples	March 26, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	June 18, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	September 25, 2008	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (Third Quarter 2008), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUNDWATER TREATMENT SYSTEM

During routine operation, groundwater was recovered from the three pumping wells (PW-1, PW-2, and PW-3) and treated through a bag filter and an air stripper prior to discharge. The bag filter removed suspended solids greater than 50 microns in diameter. The low-profile air stripper removed the VOCs from the groundwater. Following air stripping, the groundwater was discharged to surface water.

Figure 1 illustrates the PW locations and the Groundwater Treatment System (GWTS). A Flow Diagram of the GWTS equipment and process piping is presented in **Figure 2**.

5.7 CURRENT SYSTEM STATUS

The GWTS was temporarily shut down on September 12, 2007 to allow for the In-Situ Remediation Technology (ISRT injection) to be carried out. The system will remain shut down awaiting the results and evaluation of the injection. A preliminary evaluation is presented in Section 4.4.

3.2 SYSTEM OPERATIONS HISTORY THROUGH THIRD QUARTER 2008

A total of 20,572,110 gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,748,110 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

3.3 MONITORING HISTORY THROUGH THIRD QUARTER 2008

Tables 1 and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4**. This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

4.0 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on September 25, 2008 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23, 2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B, and pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table 3**. Copies of field notes collected during the sampling events are included in **Appendix A**. The preserved groundwater samples were collected and analyzed by TestAmerica Laboratories (TAL), Buffalo, New York. A summary of Site groundwater elevations is provided in **Table 4**.

4.2 LABORATORY ANALYSIS / GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5**. The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, MW-10B) were analyzed for the following twenty (20) project specific compounds: 1,1 -dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCl, TCA, TCE, toluene, VC and cis-1,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 47 micrograms per liter (ug/L) (TCA at monitoring well MW-1). Currently, only 1,1-DCA (at MW-1 and PW-1), and TCA (at MW-1, MW-4, MW-10B, PW-1 and PW-3) are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

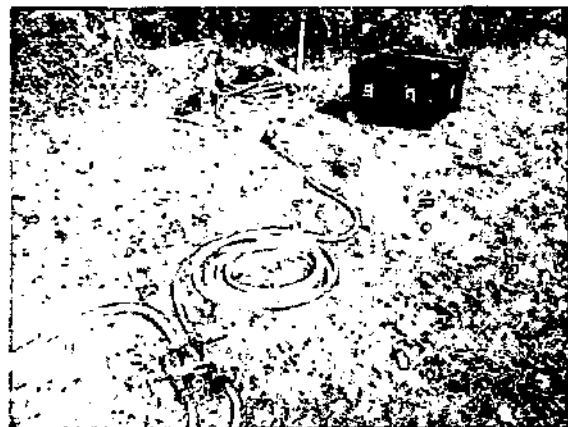
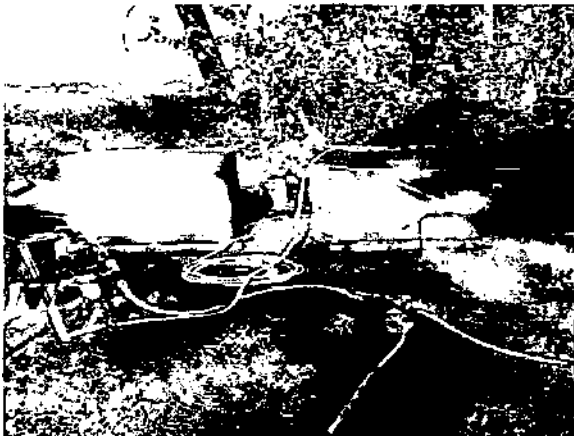
Chemical	Groundwater Cleanup Level (Mg/L)
1,1-Dichloroethane	5
1,1-Dichloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

4.3 DATA VALIDATION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B**.

4.4 ISRT EVALUATION

The injection program took place September 18 through September 20, 2007. The injection program consisted of metering the amendment from totes and pails containing the Newman's Zone, an emulsified vegetable oil, mixed with potable water and injection down each well as a dilute solution.



Monitoring groundwater levels for the period was conducted September 25, 2008. Groundwater samples were collected for laboratory analysis at wells MW-1, MW-4, MW-10B, PW-1, PW-2 and PW-3.

Similar to previous monitoring periods where the GWTP was not operating, the horizontal hydraulic gradient is extremely low (0.0031), as noted in the chart below.

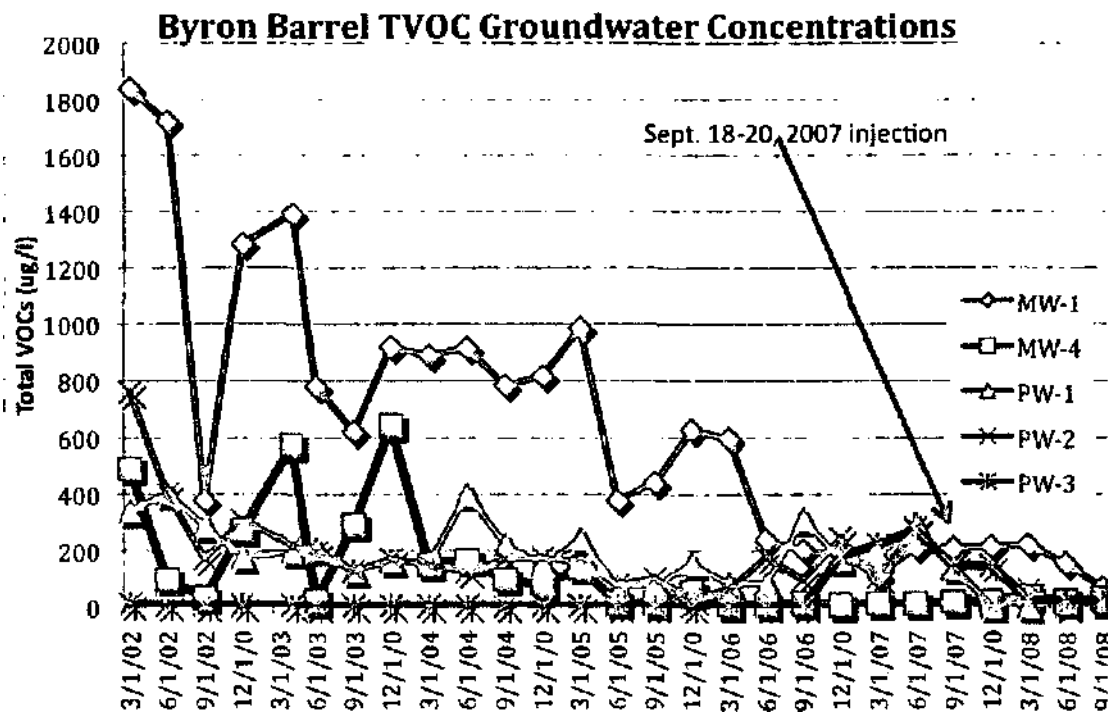
Potentiometric Data - Byron Barrel & Drum

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Several parameters are sampled as part of the ERD program to monitor progress of the pilot test, including Iron (Total and Dissolved), Manganese (Total and Dissolved), Biochemical Oxygen Demand, Chemical Oxygen Demand, Chloride, Nitrate-Nitrite, Sulfate and Sulfide, Total Kjeldahl Nitrogen, Total Organic Carbon (TOC), Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide, and VOCs. **Table 3** provides a summary of the field parameters measured during the June 2008, Quarterly Sampling Event. **Table 5** provides a summary of the VOCs detected during the June 2008, Quarterly Sampling Event. Raw data is presented on **Appendix C**. Charts documenting the trends in the ISRT monitoring are presented in **Appendix D**.

The September 2008, sampling event was the fourth post-injection sampling and is confirming some trends in the data in the ERD pilot test. The trend in VOC levels in groundwater monitoring wells site-wide depicts a decreasing trend, as noted in the chart below.



The total VOC concentration mimic the 111TCA concentration in almost all wells, and a further indication the ERD program is progressing will be the generation of the daughter products and a reduction of the ratio of 111TCA to total VOCs. By the September 2008, sampling event the groundwater flow and dispersion of the ERD amendments shows an overall reduction in the total organic carbon (TOC) since the injection, however, the distribution increased downgradient to MW-4, as noted in the table below.

	Total Organic Carbon (mg/l)	
	12/19/2007	9/25/2008
MW-1	2.3	9.7
MW-4	10.0	317
MW-10B	240	17.2
PW-1	10,200	1,030
PW-2	21,100	1,360
PW-3	-	1.5

TOC levels moderated and leveled off in monitoring well MW -1 and MW-4, downgradient of the injection area, as highlighted in the chart below.

Byron Barrel & Drum TOC Concentrations



One primary objective of the ERD program is to keep the TOC concentrations elevated in this area, and this level of decrease in the TOC indicates further carbon is necessary to continue the ERD program.

Another measure of establishing an ERD zone is monitoring the oxidation reduction potential (ORP) in and downgradient of the injection zone. As opposed to the December 2007, sampling indicating only the area around PW-1 began to shift toward strongly anaerobic conditions, the September 2008, sampling event shows a broader area with lower ORP levels. These ORP results are consistent with the general increase in soluble iron, sulfide, Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), as depicted in Appendix D, and summarized in the table below. These are positive trends in the ERD program.

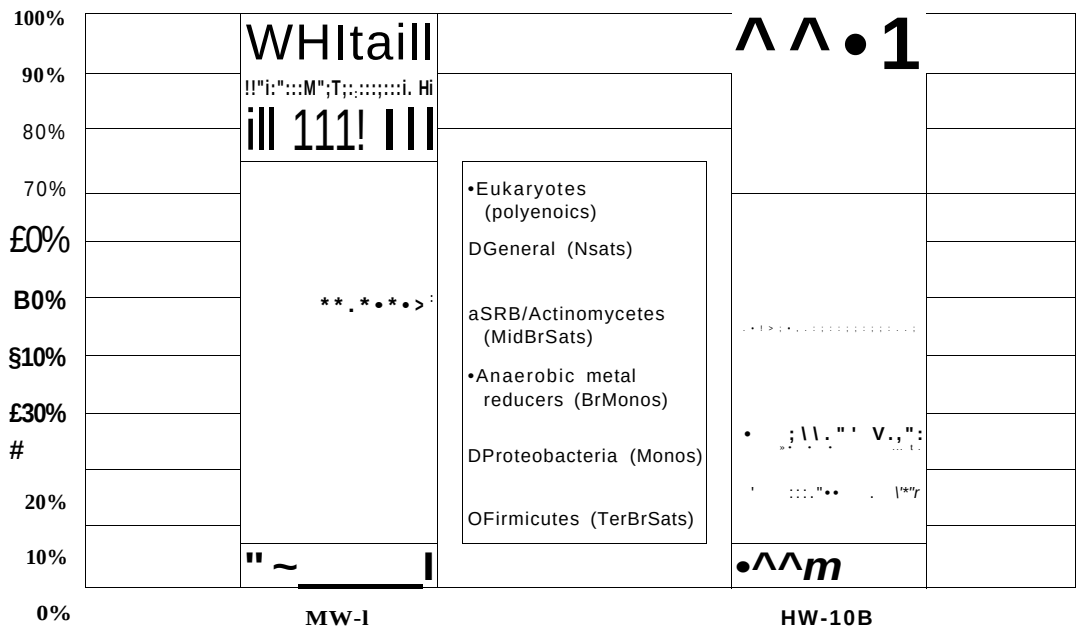
		Iron, Total (mg/l)	Iron, Dissolved (mg/l)	Manganese, Total (mg/l)	BOD (mg/l)	COD (mg/l)	SulHde (mg/l)
MW-1	12/19/2007	0.30	0.097	0.10	ND	ND	ND
MW-1	9/25/2008	4.5	3.8	0.66	5.1	15.2	ND
MW-4	12/19/2007	0.48	ND	0.011	ND	29.8	ND
MW-4	9/25/2008	35.3	40.2	1.9	1,420	719	ND
PW-1	12/19/2007	22.7	75.2	3.4	21,000	151,000	ND
PW-1	9/25/2008	94.8	48.4	18.8	3,780	3,940	ND
PW-2	12/19/2007	14	170	0.76	16,000	79,800	ND
PW-2	9/25/2008	199	7.2	7.0	746 E	16,000	1.6

In terms of dissolved gasses, neither ethane or ethene were detected in any monitoring or injection well. Methane was detected at MW-1, MW-4, PW-1 and PW-2, as noted in the table below.

		Ethane (UK/1)	Ethene (UR/1)	Methane (UR/1)	Carbon Dioxide (ug/1)
MW-1	12/19/2007	ND	ND	37	300,000
MW-1	9/25/2008	ND	ND	15	21,000
MW-4	12/19/2007	ND	ND	ND	150,000
MW-4	9/25/2008	ND	ND	39	79,000
MW-10B	12/19/2007	5.3	8.7	ND	NA
MW-10B	9/25/2008	ND	ND	1,000	47,000
PW-1	12/19/2007	ND	ND	ND	280,000
PW-1	9/25/2008	ND	ND	3,300	130,000
PW-2	12/19/2007	ND	ND	ND	47,000
PW-2	9/25/2008	ND	ND	10,000	120,000

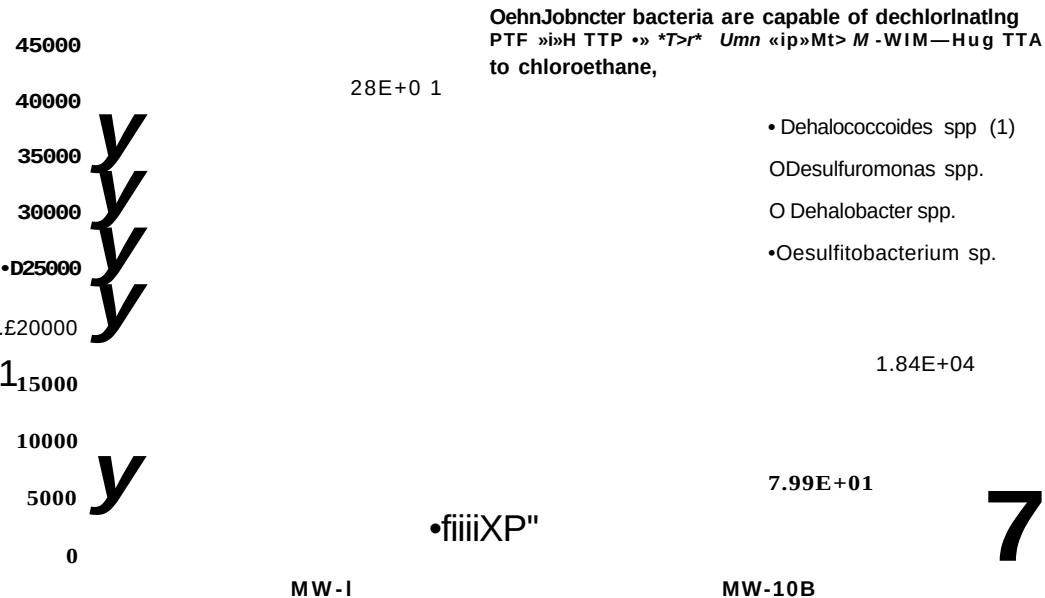
Data generated from the 2006 BioTrap samplers confirmed that methanotrophs were detected at relatively high numbers ($7 \times 10^{+6}$ and $1 \times 10^{+7}$ cells/bead). Methanotrophs are ubiquitous aerobic microorganisms that require methane as their sole source of carbon. The enzyme that initially oxidizes methane also oxidizes 111TCA, 11DCA, 11DCE, TCE and other chlorinated VOCs. These microorganisms will degrade these compounds cometabolically under aerobic conditions in the presence of methane without the production of the lesser chlorinated daughter products (e.g. 11DCA, chloroethane). These data indicate that methanotrophic degradation is still a major natural attenuation process at the Site, and during the 2nd Quarter 2008 the BioTrap samplers installed in MW-1 and MW-10B were retrieved and analyzed. The BioTraps were installed on April 10, and removed on June 18, 2008, approximately 61-days after installation.

In-Situ PFLA Community Structure - June 2008



The results of the 2008 BioTrap sampling indicate less biological activity in terms of general population counts, however, the dechlorinating Dehalobacter population remains at moderate levels in groundwater.

Dechlorinating Bacteria from BioTraps (Jun-08)



5.0 PLANS FOR NEXT QUARTER

It is recommended the GWTP remain shut-down until further post-injection sampling is conducted and evaluated. This means the GWTP will not be operational for the 4th Quarter 2008. However, quarterly groundwater sampling will continue to be collected in accordance with the QAPP and described in **Table 6**. The Fourth quarter 2008 sampling is scheduled for December 11, 2008. At this time the additional post-injection samples will also be collected.

Additionally, ECOR has developed a Workplan for a Phase II in-situ bioremediation program as a follow-up to the December 22, 2006 In-Situ Bioremediation Workplan and the July 13, 2007, In-Situ Bioremediation Workplan Addendum which supplements the information previously submitted regarding the technical decisions and procedures from Phase I of the injection program and updates that information with monitoring data to support the proposed enhanced reductive dechlorination (ERD) Phase II injection program. Data from samples collected during the fourth quarter sampling event will be used as a baseline for site conditions prior to the Phase II injection.

TABLES

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
 Byron, NY

Sampling Event Date	01/GW 7/28/2001	02/GW 8/8/2001	03/GW 8/18/2001	04/GW 9/18/2001	05/GW 9/27/2001	06/GW 10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, pg/L	23	47	60	19J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12J	16 DJ	50 U
Cis -1,2 - Dichloroethene, ug/L	1.0 J	1.4 J	1.0J	50U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, ug/L	1.9 J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, pg/L	499	899	1276	1124	1174	823

Sampling Event Date	07/GW 10/17/2001	08/GW 11/8/2001	09/GW 11/28/2001	10/GW 12/13/2001	11/GW 12/27/2001	12/GW 1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, pg/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, pg/L	13J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis -1,2- Dichloroethene, pg/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Methylene Chloride, pg/L	50 U	50 U	25 U	10 u	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	1200	580	530	260	220 E	250 E
Trichloroethene, pg/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	1259	635	559	277	237	270

Sampling Event Date	13/GW 1/30/2002	14/GW 2/13/2002	15/GW 2/23/2002	16/GW 3/8/2002	17/GW 3/20/2002	18/GW 4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis -1,2 - Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	1.8 BJ	10 u
1,1,1 -Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10 U	10 U	3.3 J	5.0 U	5.0 U	10U
Vinyl Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
 Byron, NY

Sampling Event Date	19/GW 4/24/2002	20/GW 5/8/2002	21/GW 5/21/2002	22/GW 6/4/2002	23/GW 6/13/2002	24/GW 7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19J	18D.J	20
1,1-Dichloroethene, ug/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10 U	10U	10 U	25 U	20 U	10 U
Methylene Chloride, ug/L	15 B	10U	3.1 BJ	16J	12 B.D.J	8.5 B.J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, pg/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, pg/L	2.6 J	10 U	10 U	25 U	20 U	10 U
Vinyl Chloride, ug/L	10U	10 U	10 U	25 U	20 U	10 U
Total Confident VOCs, pg/L	246	276	376	425	390	407

Sampling Event Date	25/GW 7/23/2002	26/GW 8/29/2002	27/GW 9/18/2002	28/GW 10/29/2002	29/GW 11/25/2002	30/GW 12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, pg/L	9.0 J	8.8	7.7	6.6	9.1 DJ	6.6
1,1-Dichloroethene, pg/L	2.6 J	1.3 J	1.8 J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, pg/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10 U	1.9 J	1.9 J	2.5 J	10 U	1.9J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	222	162	202	184	172	161

Sampling Event Date	31/GW 1/17/2003	32/GW 2/19/2003	33/GW 4/30/2003	34/GW 6/23/2003	35/GW 7/30/2003	36/GW 8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10 U	10 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10 U	10 U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	9/24/2003	10/23/2003	11/20/2003	12/3/2003	1/29/2004	3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	B.8DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, pg/L	2.0 DJ	10U	1.1 J	1.6 J	5.0 U	1.0 J
Toluene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event	43/GW	44/GW	45/GW	46/GW	47/GW	48/GW
Date	5/20/2004	6/16/2004	7/15/2004	8/26/2004	9/14/2004	10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10 U	2.3 J	5.0 U	10 U	2.3 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, ug/L	5.0 U	10 U	1.6 J	5.0 U	10 U	1.1 J
Toluene, ug/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, ug/L	156	190	201	77	179	97

Sampling Event	49/GW	50/GW	51/GW	52/GW	53/GW	54/GW
Date	12/14/2004	1/27/2005	3/22/2005	4/26/2005	5/30/2005	6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, Mg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6 J	2.2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, ug/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	55/GW 7/28/2005	56/GW 8/29/2005	57/GW 9/13/2005	58/GW 10/18/2005	59/GW 11/22/2005	60/GW 12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	10	9.5 J	2.3 J	7.1J	5.2 J	2.7 J
1,1-Dichloroethene, ug/L	4.8	3.1J	0.64 J	1.5J	2.7 J	0.84 J
Cis-1,2- Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Methylene Chloride, ug/L	1.0 U	2.4 J	5.0 U	10U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, ug/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, pg/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Total Confident VOCs, pg/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event Date	61/GW 1/19/2006	62/GW 2/24/2006	63/GW 3/27/2006	64/GW 4/20/2006	65/GW 5/25/2006	66/GW 6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, ug/L	1.7 J	1.3 J	1.1 J	1.3 J	1.5 J	0.94 J
Cis-1,2- Dichloroethene, ug/L	5.0 U	10 U	5.0 U	10 U	10 U	5.0 U
Methylene Chloride, ug/L	5.0 U	2.1 BJ	5.0 U	10 U	1.3 J	5.0 U
1,1,1 -Trichloroethane, ug/L	170	100	110	140	160	80
Trichloroethene, ug/L	1.3 J	0.87 J	0.95 J	1.0 J	1.2 J	0.72 J
Toluene, ug/L	5.0 U	10 U	5.0 U	10 U	10 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Total Confident VOCs, ug/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event Date	67 7/18/2006	68 8/7/2006	69 9/14/2006	70 10/12/2006	71 11/22/2006	72 12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4 J	2.3 J	1.3 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 u	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.8 J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, ug/L	0.64 J	2.7 DJ	1.5J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	1.0 DJ	10 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, pg/L	0.78 J	1.3 DJ	10 U	1.1 J	1.2 J	0.67J
Toluene, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	80	81	82	83	84
Date	7/24/2007	8/22/2007	9/12/2007	10/2007	11/2007	12/2007
Field Influent pH, std pH units	7.57	7.85	7.65	NS	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NS	NS	NS
1,1-Dichloroethane, pg/L	6.6	5.9	7.1	NS	NS	NS
1,1-Dichloroethene, pg/L	5.2	1.0 J	10 U	NS	NS	NS
Cis -1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
1,1,1 -Trichloroethane, pg/L	230 D	140 D	160	NS	NS	NS
Trichloroethene, pg/L	0.82 J	0.81J	10 U	NS	NS	NS
Toluene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Total Confident VOCs, pg/L	242.62	147.71	167.1	NS	NS	NS

Sampling Event	B5	66	87	88	89	90
Date	1/2008	2/2008	3/2008	4/2008	5/2008	6/2008
Field Influent pH, std pH units	NS	NS	NS	NS	NS	NS
Total Suspended Solids, mg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane, pg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Cis -1,2- Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Methylene Chloride, pg/L	NS	NS	NS	NS	NS	NS
1,1,1 -Trichloroethane, pg/L	NS	NS	NS	NS	NS	NS
Trichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Toluene, pg/L	NS	NS	NS	NS	NS	NS
Vinyl Chloride, pg/L	NS	NS	NS	NS	NS	NS
Total Confident VOCs, pg/L	NS	NS	NS	NS	NS	NS

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	91
Date	9/2008
Field Influent pH, std pH units	NS
Total Suspended Solids, mg/L	NS
1,1-Dichloroethane, ug/L	NS
1,1-Dichloroethene, ug/L	NS
Cis-1,2- Dichloroethene, ug/L	NS
Methylene Chloride, ug/L	NS
1,1,1 - Trichloroethane, ug/L	NS
Trichloroethene, ug/L	NS
Toluene, ug/L	NS
<u>Vinyl Chloride, gg/L</u>	NS
<u>Total Confident VOCs, ug/L</u>	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene. ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1.5J	5.0 U	1.5J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	6.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene. pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene. pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3 J	2.8 B,J
1,1,1 - Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.0B	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B, J	2.6 B,J
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene,pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1.2- Dichloroethene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW	48/GW	49/GW
Date	12/14/2006	3/21/2007	6/27/2007	9/12/2007	12/2007	3/2008
Field Effluent pH, std pH units	8.36	8.44	8.39	8.63	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Cis-1.2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS

Sampling Event	50/GW	51/GW
Date	6/2008	9/2008
Field Effluent pH, std pH units	NS	NS
Total Suspended Solids, mg/L	NA	NA
1,1-Dichloroethane, pg/L	NS	NS
1,1-Dichloroethene, pg/L	NS	NS
Cis-1,2- Dichloroethene, pg/L	NS	NS
Methylene Chloride, pg/L	NS	NS
1,1,1 -Trichloroethane, pg/L	NS	NS
Trichloroethene, pg/L	NS	NS
Toluene, pg/L	NS	NS
Vinyl Chloride, pg/L	NS	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Field Parameters
Quarterly Sampling Event
September 25, 2008
Byron Barrel and Drum Site
Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW26	0915	16.1	-133	7.77	0.6	3.46	907
	0920	16.0	-132	7.76	0.6	3.03	905
	0925	15.9	-130	7.75	0.6	2.69	899
	0930	15.8	-129	7.74	0.6	2.61	897
	0935	15.8	-129	7.75	0.6	2.55	894
MW-4-9/GW27	0950	15.6	-178	7.70		0.68	1673
	0955	15.5	-176	7.67		0.56	1680
	1000	15.4	-184	7.62		0.25	1700
	1005	15.4	-198	7.60		0.23	1743
	1010	15.3	-201	7.61		0.24	1746
	1015	15.3	-204	7.61		0.23	1747
MW-10B-9/GW27	1145	22.4	-169	7.93	0.6	1.81	713
	1150	22.3	-170	7.99	0.5	1.75	713
	1155	22.2	-170	8.08	0.5	1.69	714
	1200	22.3	-171	8.07	0.5	1.59	713
	1205	22.4	-172	8.09	0.5	1.56	713
	1210	22.5	-174	8.11	0.5	1.52	712
PW-1/GW27	1300	14.8	-75	7.93	0.8	1.97	1278
PW-2/GW27	1200	15.1	-139	7.84	1.1	0.71	1720
PW-3/GW27	1230	14.8	-69	8.29	0.4	1.34	693

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

N/A = Not Available

Table 4
Groundwater Elevations
September 2008 Sampling Event
Byron Barrel and Drum Site
Byron, NY

Operator: T. Palmer

Date: 9/25/2008

<u>Pumping Wells</u>	DTW	TOC Elevation	GW Elevation	TD	WC.ft.
PW-1	8.39	642.82	634.43	<i>m</i>	<i>m</i>
PW-2	6.92	641.34	634.42	<i>m</i>	<i>m</i>
PW-3	6.62	641.11	634.49	•	<i>m</i>

<u>Monitoring Wells</u>					
MW-1	5.25	639.63	634.38	11.65	6.40
MW-2	11.74	646.36	634.62	15.10	3.36
MW-4	4.29	638.56	634.27	11.50	7.21
MW-1 OB	9.81	644.44	634.63	20.35	10.54
MW-21	8.39	642.52	634.13	27.90	19.51
Residential	16.34	650.78	634.44	35.17	18.83

Piezometers

PZ-1	8.07	<u>643.11</u>	<u>635.04</u>	27.02	<u>18.95</u>
PZ-2	7.95	642.39	634.44	27.25	19.30

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Copper (mg/L)	Zinc (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-1	3/20/2002	639.63	5.24	634.39	86	49	NA	5 U	1700	2 J	5 U	2 J
	6/12/2002	639.63	5.07	634.56	81	38	NA	5 U	1600	3 J	5 U	5 U
	9/18/2002	639.63	7.15	632.48	13	13 J	NA	5 UJ	350	5 U	5 U	5 U
	12/18/2002	639.63	5.62	634.01	42	37 J	NA	25 U	1200	5 J	25 U	25 U
	4/29/2003	639.63	4.53	635.10	57	34	NA	25 U	1300 J	25 U	25 U	25 U
	6/24/2003	639.63	5.36	634.27	32	24	NA	5 U	720	4 J	5 U	5 U
	9/24/2003	639.63	6.72	632.91	24 J	17 J	NA	25 U	580	25 U	25 U	25 U
	12/3/2003	639.63	5.53	634.10	33 J	28 J	NA	40 U	860 J	40 U	40 U	40 U
	3/30/2004	639.63	3.40	636.23	30 J	31	NA	25 U	830 J	25 UJ	25 U	25 U
	6/16/2004	639.63	4.20	635.43	26	22 J	NA	25 UJ	870	25 U	25 U	25 U
	9/14/2004	639.63	4.56	635.07	28	26	NA	25 U	730	25 U	25 U	25 U
	12/14/2004	639.63	4.61	635.02	31	26	NA	25 U	760	25 UJ	25 U	25 U
	3/22/2005	639.63	4.32	635.31	41	110	NA	5 U	830	5	5 U	5 U
	6/7/2005	639.63	5.45	634.18	10 J	14 J	NA	13 J	340	50 U	50 UJ	50 U
	9/13/2005	639.63	6.89	632.74	14	16	NA	5 U	410	2 J	5 UJ	5 U
	12/20/2005	639.63	4.78	634.85	24 J	24 J	NA	40 U	580	40 U	40 U	40 U
	3/26/2006	639.63	5.07	634.56	29	24	NA	5 U	540	4 J	5 U	5 U
	6/22/2006	639.63	5.68	633.95	7	9	NA	5 U	220	2 J	5 U	5 U
	9/14/2006	639.63	5.15	634.48	5 J	6 J	NA	10 U	190	2 J	10 U	10 U
	12/7/2006	639.63	4.54	635.09	6 J	9 J	NA	10 U	170	2 J	10 U	10 U
	3/22/2007	639.63	4.19	635.44	2 J	4 J	NA	10 U	100	2 J	10 U	10 U
	6/14/2007	639.63	5.30	634.33	6	3 J	NA	5 U	200	2 J	5 U	5 U
	9/12/2007	639.63	6.56	633.07	7 J	3 J	NA	20 U	200	20 U	20 U	20 U
	12/19/2007	639.63	4.95	634.68	10	2 J	NA	10 U	200	2 J	10 U	10 U
	3/26/2008	639.63	4.33	635.30	8 J	3 J	NA	20 U	210	20 U	20 U	20 U
	6/18/2008	639.63	4.83	634.80	19	3 J	NA	10 U	130	1 J	10 U	10 U
	9/25/2008	642.82	5.25	637.57	20	1 J	NA	10 U	47	1 J	10 U	10 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (")	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Fluoride (mg/L)	Copper (mg/L)	Iron (mg/L)	Manganese (mg/L)	Nitrate (mg/L)	Phosphate (mg/L)	Sulfate (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-4	3/20/2002	638.56	4.79	633.77	17 J	14 J	NA	25 U	450	10 J	25 U	25 U
	6/12/2002	638.56	4.48	634.08	3 J	2 J	NA	5 U	83	8	5 U	5 U
	9/18/2002	638.56	6.04	632.52	5 U	5 U J	NA	5 U J	27	5	5 U	5 U
	12/18/2002	638.56	5.22	633.34	40	24	NA	5 U	200	8	5 U	5 U
	4/29/2003	638.56	4.50	634.06	31	13 J	NA	25 U	530	25 U	25 U	25 U
	6/24/2003	638.56	4.58	633.98	5 U J	5 U J	NA	5 U	17 J	4 J	5 U	5 U J
	9/24/2003	638.56	5.91	632.65	35	9 J	NA	10 U	240	8 J	10 U	10 U
	12/3/2003	638.56	4.98	633.58	65	17 J	NA	20 U	550	11 J	20 U	20 U
	3/30/2004	638.56	4.15	634.41	12	5	NA	5 U	130	3 J	5 U	5 U
	6/16/2004	638.56	3.64	634.92	15 J	25 U J	NA	25 U J	150	25 U	25 U	25 U
	9/14/2004	638.56	3.71	634.85	11 J	25 U	NA	25 U	87	25 U	25 U	25 U
	12/14/2004	638.56	3.97	634.59	11 J	25 U	NA	25 U	67	25 U	25 U	25 U
	3/22/2005	638.56	3.55	635.01	50 U	50 U	NA	50 U J	87	50 U	50 U	50 U
	6/7/2005	638.56	4.25	634.31	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	9/13/2005	638.56	5.84	632.72	5 U	5 U	NA	5 U	11	2 J	5 U	5 U
	12/20/2005	638.56	4.75	633.81	4 J	25 U	NA	25 U	48	25 U	25 U	25 U
	3/25/2006	638.56	4.32	634.24	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	6/22/2006	638.56	4.50	634.06	5 U	5 U	NA	5 U	9	1 J	5 U	5 U
	9/14/2006	638.56	3.92	634.64	5 U	5 U	NA	5 U	13	2 J	5 U	5 U
	12/7/2006	638.56	3.64	634.92	25 U	25 U	NA	25 U	6 J	25 U	25 U	25 U
	3/22/2007	638.56	3.24	635.32	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	6/14/2007	638.56	4.50	634.06	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	9/12/2007	638.56	5.30	633.26	5 U	5 U	NA	5 U	14	2 J	5 U	5 U
	12/19/2007	638.56	3.79	634.77	5 U	5 U	NA	5 U	16	1 J	5 U	5 U
	3/26/2008	638.56	2.99	635.57	4 J	20 U	NA	20 U	31	2 J	20 U	20 U
	6/18/2008	636.56	3.48	635.08	4 J	20 U	NA	20 U	16 J	1 J	20 U	20 U
	9/25/2008	638.56	4.29	634.27	11	10 U	NA	10 U	15	2 J	10 U	10 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Copper (mg/L)	Lead (mg/L)	Iron (mg/L)	Manganese (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Specific Conductance (µmhos/cm)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 U J	NA	5 U J	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/12/2007	644.44	10.98	633.46	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U
	12/19/2007	644.44	9.54	634.90	64 J	120 U	NA	31 J	1300	120 U	120 U	120 U
	3/26/2008	644.44	8.68	635.76	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/18/2008	644.44	9.19	635.25	0.4 J	5 U	NA	5 U	5	5 U	5 U	5 U
	9/25/2008	644.44	9.81	634.63	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Acetate (mg/L)	Cadmium (mg/L)	2,4-Dichloroethene (mg/L)	1,1-Dichloroethene (mg/L)	1,1,1-Trichloroethene (mg/L)	3-Olefin Sulfone (mg/L)	Non-Halogenated VOCs (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	5
MW-21	3/26/1999	NA	NA	NA	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 U	NA	25 U	25 U	25 U	5BJ	25 U
	9/17/2002	642.52	9.50	633.02	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	642.52	8.23	634.29	5 U	5 UJ	NA	5 U	5 UJ	5 U	5 U	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	3/30/2004	642.52	7.56	634.96	5 UJ	5 UJ	NA	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	12/19/2007	642.52	7.81	634.71	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	3/26/2008	642.52	7.34	635.18	20 U	20 U	NA	20 U	20 U	20 U	20 U	20 U
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	6/12/2002	650.78	15.62	635.16	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	9/17/2002	650.78	17.50	633.28	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	650.78	16.52	634.26	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	4/30/2003	650.78	17.74	633.04	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/30/2004	650.78	15.47	635.31	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2005	650.78	15.24	635.54	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/25/2006	650.78	15.75	635.03	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2007	650.78	15.09	635.69	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/26/2008	650.78	15.25	635.53	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	1,1-Dichloroethene (mg/L)	Volatiles (mg/L)	Chloroform (mg/L)	Solvents (mg/L)	Trichloroethylene (mg/L)	Solvents (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-1	12/21/1998	NA	NA	NA	20 U	5 J	20 U	9BJ	270	11 J	20 U	20 U
	12/27/2001	NA	NA	NA	15	6.2	5 U	5 U	280	5.2	5 U	5 U
	3/20/2002	642.82	NM	NM	11	5	5 U	5 U	320	3 J	5 U	5 U
	6/12/2002	642.82	NM	NM	18	3 J	5 U	5 U	380	2 J	5 U	5 U
	9/18/2002	642.82	NM	NM	12	2 J	5 U	5UJ	270	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	8	5	5 U	5 U	160	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	11	2 J	5 U	5 U	180	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	12	2 J	5 U	5 U	190	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	8	5 U	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	8	2 J	5 U	5 U	150	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	150	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	380	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	10	2 J	5 U	5 U	210	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	140	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	23	5 U	5 U	200 J	2 J	5 U	5 U
	6/7/2005	642.82	21.50	621.32	10	2 J	10 U	2 U	59	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	73	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	140	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	76	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	77	0.8 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9DJ	25 U	25 U	25 U	230	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	160	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	170	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	280	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5 J	10 U	10 U	10 U	130	10 U	10 U	10 U
	12/21/2007	642.82	7.95	634.87	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
	3/26/2008	642.82	7.11	635.71	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
	6/18/2008	642.82	7.19	635.63	7	100 U	100 U	100 U	7	100 U	100 U	100 U
	9/25/2008	642.82	8.39	634.43	12	5 U	5 U	5 U	3 J	0.6 J	2 J	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	1,1-Dichloroethene (mg/L)	Trichloroethene (mg/L)	1,1,1-Trichloroethene (mg/L)	2,2,2-Trichloroethane (mg/L)	1,1-Dichloroethane (mg/L)	
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	2	
PW-2	12/27/2001	NA	NA	NA	68	23	1.4 J	5 U	960	4 J	5 U	1.1 J
	3/20/2002	641.34	NM	NM	24	13	5 U	5 U	720	2 J	5 U	5 U
	6/12/2002	641.34	NM	NM	18	10	5 U	5 U	370	2 J	5 U	5 U
	9/18/2002	641.34	NM	NM	5	4 J	5 U	5 U J	160	5 U	5 U	5 U
	12/18/2002	641.34	17.68	623.66	12	14	10 U	10 U	280	10 U	10 U	10 U
	4/30/2003	641.34	16.82	624.52	11	6	5 U	5 U	200	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	8	5	5 U	5 U	180	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	6	2 J	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	6	3 J	5 U	5 U	160	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	4 J	3 J	5 U	5 U	140	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	5	5 U	5 U	5 U J	120	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	5	4 J	5 U	5 U	160	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	8	5	5 U	5 U	160	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	5	11	5 U	5 U	140	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	3 J	2 J	5 U	5 U	70	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	3 J	3 J	5 U	5 U	94 J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	1 J	5 U	5 U	5 U	30	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	5	1 J	5 U	5 U	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	4 J	2 J	10 U	10 BL	170	1 J	10 U	10 U
	9/14/2006	641.34	6.75	634.59	3 DJ	1 DJ	10 U	10 U	92	1 DJ	10 U	10 U
	12/7/2006	641.34	6.11	635.23	9 DJ	3 DJ	10 U	10 U	230	2 J	10 U	10 U
	3/22/2007	641.34	4.19	637.15	8 J	4 J	10 U	10 U	90	1 J	10 U	10 U
	6/14/2007	641.34	4.72	636.62	8 J	2 J	20 U	20 U	270	20 U	20 U	20 U
	9/12/2007	641.34	7.97	633.37	5 J	1 J	10 U	10 U	140	10 U	10 U	10 U
	12/21/2007	641.34	6.31	635.03	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
	3/26/2008	641.34	4.19	637.15	250 U	250 U	250 U	250 U	30 J	250 U	29 J	250 U
	6/18/2008	641.34	4.24	637.10	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
	9/25/2008	641.34	6.92	634.42	14	5 U	5 U	5 U	5 U	0.7 J	3 J	5 U

Table 5
 Historic Groundwater Quality • Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)	Chloride (mg/L)
		Groundwater Cleanup Levels (pg/L):			5	5	NA	5	5	5	5	5
PW-3	12/27/2001	NA	NA	NA	5 U	5 U	5 U	5 U	16	17 J	5 U	5 U
	3/20/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	8	1 J	5 U	5 U
	6/12/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	6	5 U	5 U	5 U
	9/18/2002	641.11	NM	NM	5 U	5 U J	5 U	5 U J	4 J	5 U	5 U	5 U
	12/18/2002	641.11	19.90	621.21	5 U	5 U	5 U	5 U	4 J	5 U	5 U	5 U
	4/30/2003	641.11	19.46	621.65	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	6/23/2003	641.11	18.55	622.56	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	9/24/2003	641.11	20.97	620.14	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/3/2003	641.11	20.28	620.83	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	3/30/2004	641.11	20.52	620.59	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/16/2004	641.11	19.65	621.46	5 U	5 U	5 U	5 U J	2 J	5 U	5 U	5 U
	9/14/2004	641.11	20.91	620.20	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/14/2004	641.11	18.33	622.78	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	3/22/2005	641.11	22.17	618.94	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/7/2005	641.11	20.30	620.81	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	9/13/2005	641.11	21.52	619.59	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	12/19/2005	641.11	20.36	620.75	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	3/26/2006	641.11	22.31	618.80	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	6/22/2006	641.11	20.72	620.39	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	9/14/2006	641.11	6.53	634.58	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/7/2006	641.11	7.81	633.30	6 DJ	2 DJ	5 U	5 U	170	1 J	5 U	5 U
	3/22/2007	641.11	5.45	635.66	7	4 J	5 U	5 U	210	1 J	5 U	5 U
	6/14/2007	641.11	5.18	635.93	9 J	3 J	20 U	20 U	260	20 U	20 U	20 U
	9/12/2007	641.11	7.73	633.38	4 J	1 J	10	10	130	10 U	10 U	10 U
	12/21/2007	641.11	6.23	634.88	NA	NA	NA	NA	NA	NA	NA	NA
	4/10/2008	641.11	5.48	635.63	0.9 J	5 U	5 U	5 U	24	5 U	5 U	5 U
	6/18/2008	641.11	5.53	635.58	0.6 J	5 U	5 U	5 U	24	5 U	5 U	5 U
	9/25/2008	641.11	6.62	634.49	5 U	5 U	5 U	5 U	22	5 U	5 U	5 U

Notes:

All concentrations in micrograms per liter (ug/L)

Exceedences of the groundwater cleanup standard are indicated in bold.

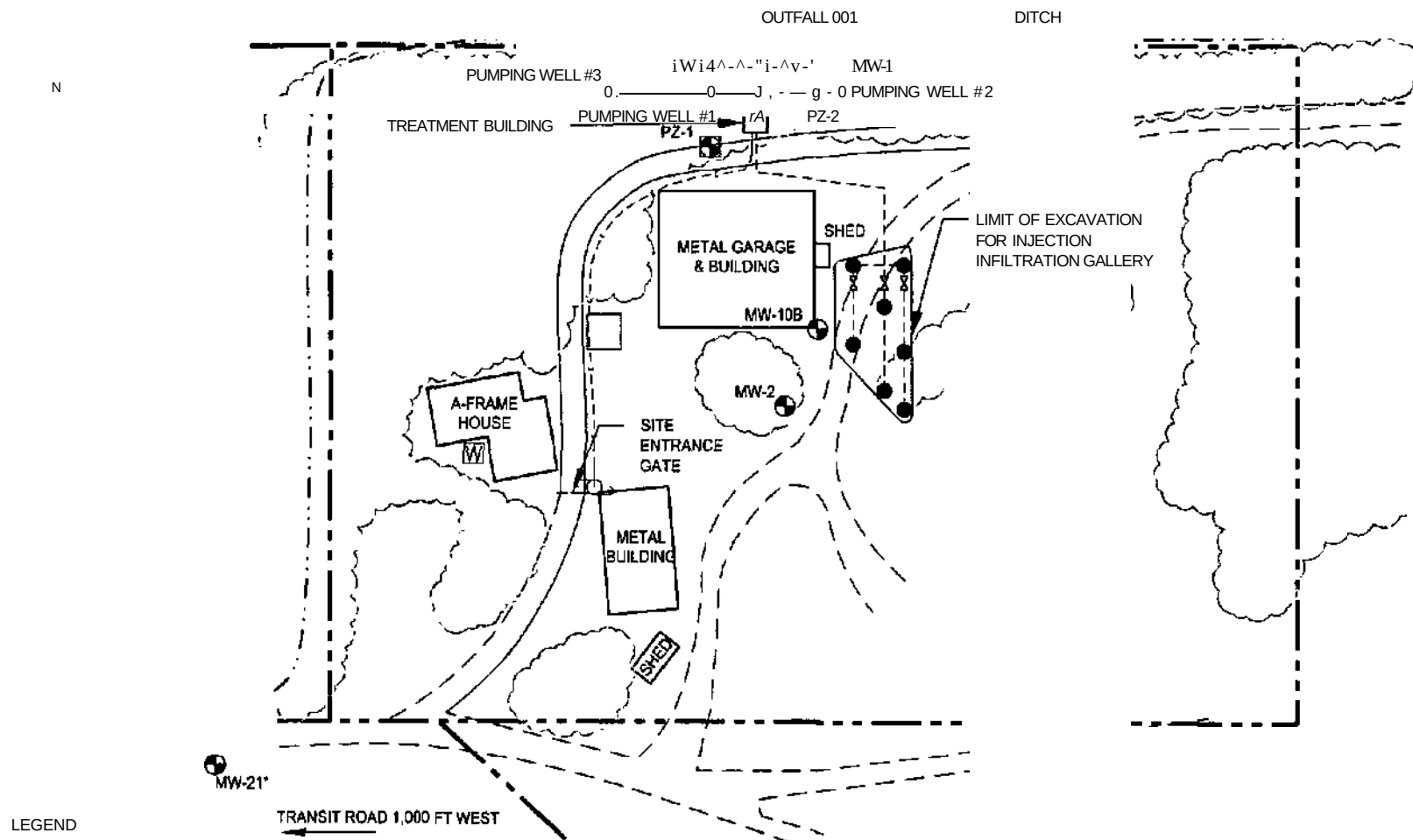
NM = Not Measured

NA = Not Available

Table 6
Schedule of Sampling and Analysis for 2008
Byron Barrel and Drum Site
Byron, NY

Month	Event	Wells to be Sampled	Constituents to be Analyzed
March 2008	First Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential PW-1 PW-2	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
June 2008	Second Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
September 2008	Third Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
December 2008	Fourth Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride

FIGURES



LEGEND

S

MONITORING WELL

FORMER RESIDENTIAL WELL

PIEZOMETER WELL

INJECTION GALLERY PIEZOMETER WELL

INJECTION GALLERY VALVE

©

PUMPING WELL

UTILITY POLE

PROPERTY LINE

FENCE

TREELINE

NEW GRAVEL ROAD

PRE-EXISTING GRAVEL ROAD

DITCH

ELECTRIC & PHONE LINE

REINJECTION PIPING

SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions

1075 Andrew Drive, Suite 1, West Chester, PA 19380

SCALE IN FEET

DATE

FIGURE

80

07-25-06

1

*NOTE: MW-21 IS 200 FEET WEST OF PROPERTY LINE
SOURCE: ERM CSO SERVICES



0
WELL NO. 1
1/3 HP

©
WELL NO. 2
1/3 HP

©
WELL NO. 3
1/3 HP

-D*3-

-C»CH>t-

-DK3-W-

TO REINJECTION (OR)
SURFACE DISCHARGE

TO SURFACE DISCHARGE
OUTFALL 001

AIR IN -
rD&3<hr-CBO-

BAG FILTER

AIR
STRIPPER

REINJECTION
PUMP
2 HP

AIR OUT

150 CFM
&
BLOWER
3 HP

LEGEND

rD&J	SAMPLING PORT
a	REDUCER
w	CHECK VALVE
-	FLANGE FITTING
r x j	BUTTERFLY VALVE
X	BALL VALVE
	AIR LINE
_____	PROCESS PIPING

TO ATMOSPHERE

\$
rC&H

GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions

1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE

FIGURE

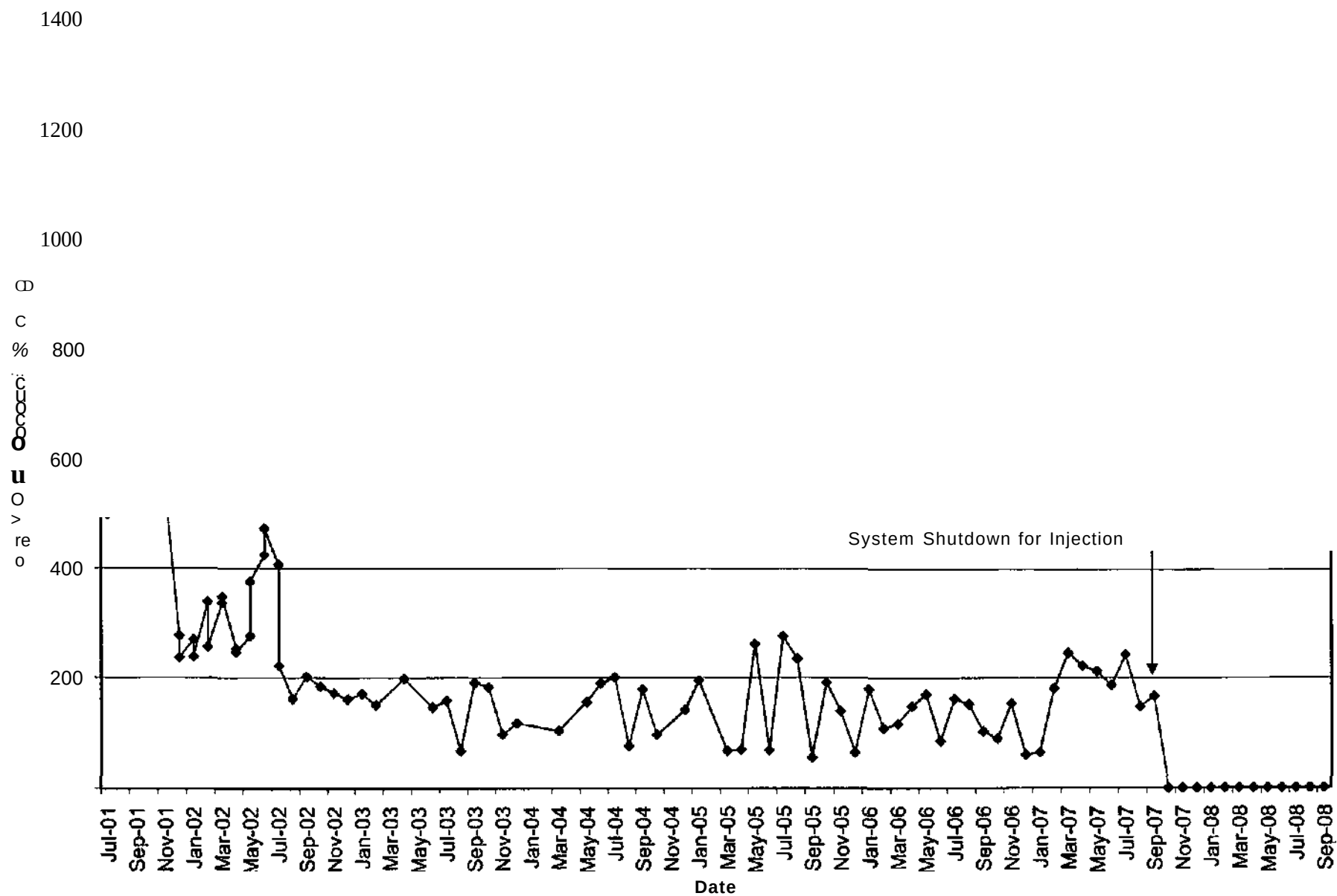
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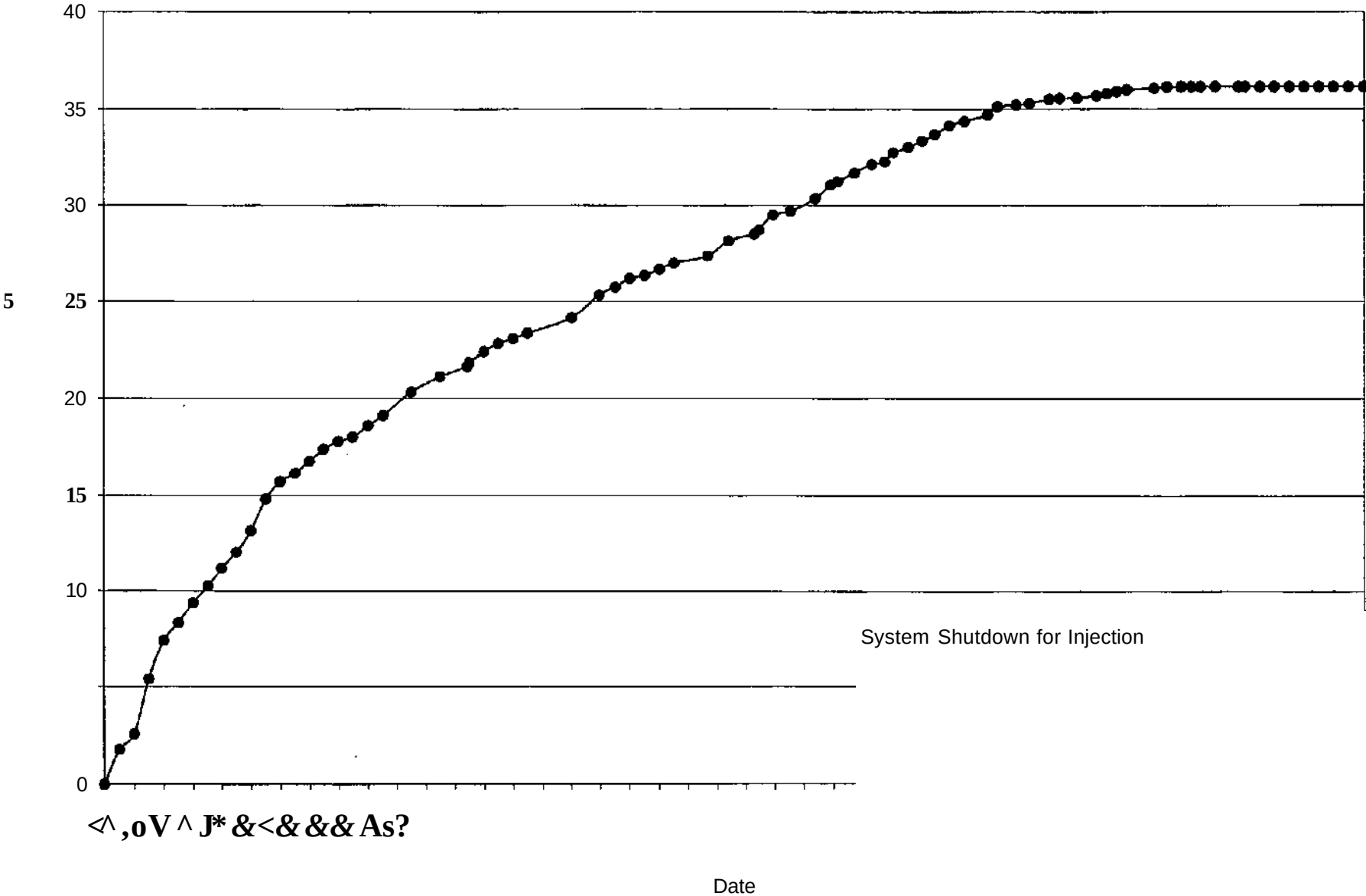
09-02-05

2



Figure 3
Influent VOC Concentration vs. Time
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY





APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator: $-T^*\$|*v$
Date: $^{\circ}|V^*0\%$

Pumping Weils	DTW	TOC Elevation	GW Elevation	TD	WC,ft
PW-1	$\%.y $	642.82	$S_{\times 3}V.Vc$	"	a
PW-2	$G^{\wedge}$	641.34	$Wtfc$	m	—
PW-3	$(\ ^{\wedge}$	641.11	$oH^{\wedge}$	m	-

Monitoring Wells

MW-1	$\&$	639.63	$OlH.lt> i,"$	$l-Vft$
MW-2	jm	646.36	$SSto. /^{\wedge}o$	$3. \underline{3}^{\wedge}$
MW-4	$w $	£38.56	$rH^{\wedge}$	$l'.X<=$
MW-1 OB	$^{\circ} \% $	644.44	$\bullet S'/. * \wedge o.ZJ'$	$\bullet).-?/$
MW-21	W	642.52	$f \underline{lil}\%$	$27.W$
Residential	$1M$	$\underline{650.78}$	$ 63ty.VV :?r. ii$	$/8. \&3$

Piezometers

PZ-1	$ft.o?$	643.11	$(-?.<C.6<J-?W$	$/t.JS''$
PZ-2	$T<\pounds$	642.39	$tatf.Vwa^{***}'$	$1 \ 1>\$ \pounds >$

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS ofl-	DO mg/L	Spec. Cond. mS/cm
PW-1/GW "1	1300	H9	-75	1-13	0.?	i n	1378
PW-2/GW * '	200	/S-I	~J3	1.94	U	01)	17 3o
PW-3/GW	I330	W	-£1	&P1	a 4	l-y	613

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: ? ' # ^

Job #: 01501.002

Sample ID: I ^ M / QI#

Well ID: fIM»S - n_{me onsite}; T_{jme OffsHe}:

Samplers: ^ t ^ ?|% _|3*>

Depth of Well (from top of casing) fIO^S Time: ^ ^

Static water level (from top of casing) Time:

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond.. mS/cm
irts	H0ml/**	nxs	-1^1	1V>	a6	LSI	"7>3
\ISO	I	p23	-po	"7.11	a-r	115	113)
IIS	I	552	- 7o	W	o-5	W	n/V
»Poo		2^3	-111	M	o-s	YS°	T3
tfoS		W	-IT*-	?tf	06	I.S6	113
i3«>	^—	PP.?	^	?.»	06	1.52,	nrz

Sampling:Time of Sample Collection 10)0

Collection Method:

☒ Dedicated pump

Analyses:

☒ VOCs

Analytical Method:

8260 ☒ 503 Other**Observations:**Weather/Temperature: 5w> "7£Sample Description: cu^Free Product? Yes No ☒ Descript.: Sheen? Yes No Descript.: Odor? Yes No Descript.:

Comments:

MS/mtt - ^ ^ V O ^ S ^

0
WELL NO. 1
1/3 HP

©
WELL NO. 2
1/3 HP

0
WELL NO. 3
1/3 HP

-IXH>—1

-CaO-W-

-CW3-C+-

TO REINJECTION (OR)
SURFACE DISCHARGE

-C*J-

REINJECTION
PUMP
2 HP

TO SURFACE DISCHARGE
OUTFALL 001

BAG FILTER

AIR OUT

X
X

-n-

AIR
STRIPPER

AIR IN —

rCfeKH-Cea-

150 CFM
&
BLOWER
3 HP

TO ATMOSPHERE

I
I

rC&Jf

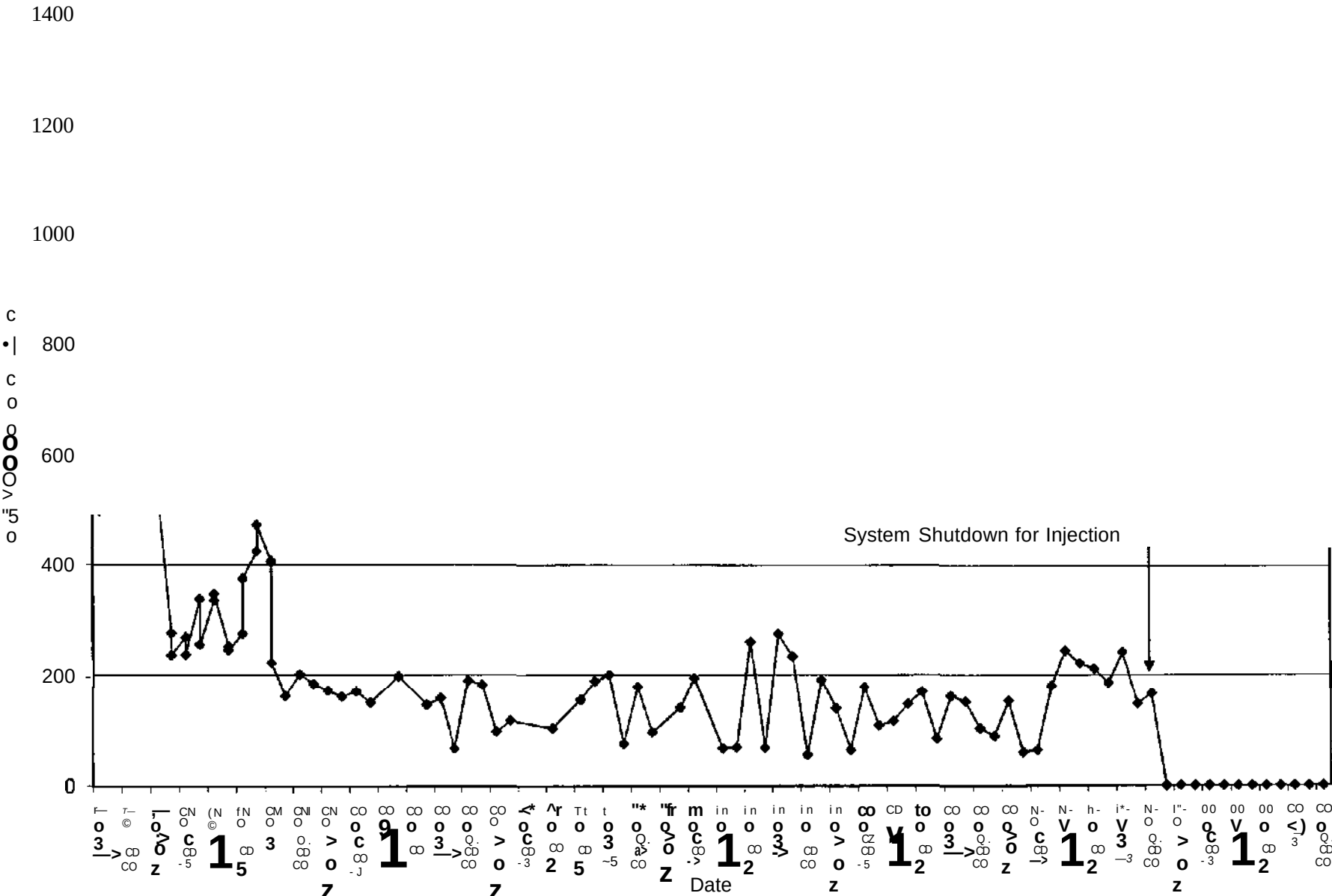
LEGEND

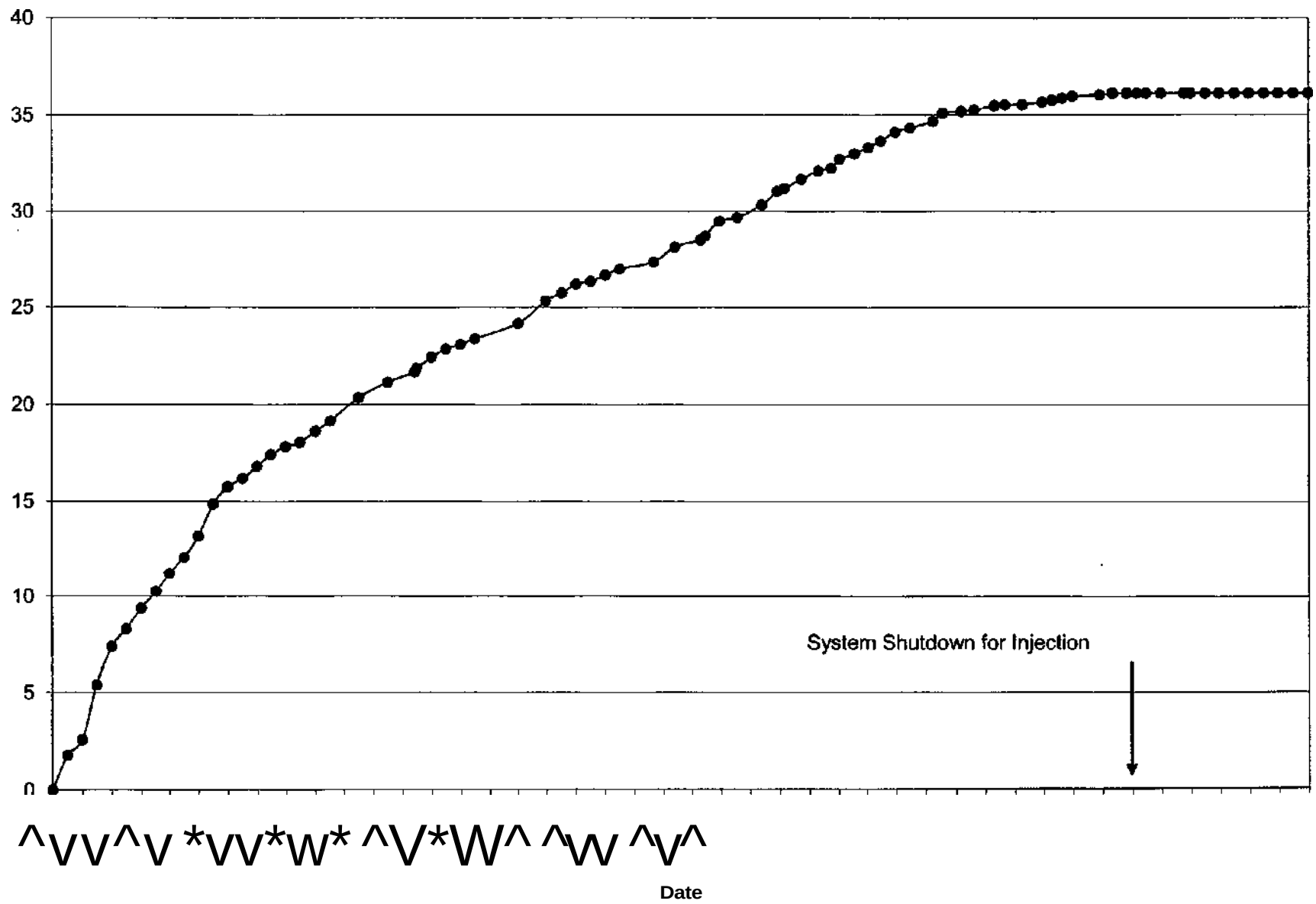
- rDfcl SAMPLING PORT
- a REDUCER
- w CHECK VALVE
- B- FLANGE FITTING
- r^j BUTTERFLY VALVE
- C&3 BALL VALVE
- AIR LINE
- PROCESS PIPING

GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380
SCALE IN FEET DATE FIGURE
80 09-02-05 2







APPENDIX A
Field Notes

ECOR Solutions* Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator:

Date:

Pumping Wells	TOC D7W Elevation	GW Elevation	TO	WC,ft.
PW-1	%v\	642.82	S-3V.Y*	*
PW-2	&.<?2-	641.34	W •/. V5	—
PW-3	bt&	641.11	6-3VW?	-

Monitoring Wells

MW-1	& m	639.63	^ V , 3 £ //>'J	^ </A
MW-2	<w	646.36	d^ /r.«>	2 ^ ^ .
MW-4	i«\	638.56	^-.W,:n /'.J'''	•>,3/
MW-1 OB	3*1	644.44	•3*J.H ^ o . *>	/ft. ,v
MW-21	IGM	642.52	£H/* 2 7 . ^	n. s-f
Residential		650.78	6 3 ^ . W :?5" /7	1%. 13

Piezometers

PZ-1	\$*1	643.11	C."?.v.&4j7.*2	/ & . 7 \ S "
PZ-2	IV	642.39	<AV.V SL7^S-	/ ? . 3C»

ECOR Solutions, Inc.
Byron Barrel & Drum SKe
Pumping Well Ffield Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	pH Std. Units	TDS g/l	DO mgA.	Spec. Cond. mS/cm
PW-1/GW * '	1300	IH?	-75	T13	0.&	<i>in</i>	1378
PW-2/GW * '	1200	IS. I	<del>~1ft</del>	"7.*f	I.I	on	17 ao
PW-3/GW \$1	1330	1W	-fi1	fc?1	o-S	l-5f	6-13

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

ECOR Solutions, Inc.
Byron Barret & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: TM f* Q°

Job #: 01501.002

Sample ID: Wwt^ (QJ#I

Well ID: f^ 4 * ^

* " " » onsite: " H TM Offsite:

Samplers: ^ t ^

U %) 3 * >

Depth of Well (from top of casing) Q.0&

T i m e : ^ ^

Static water level (from top of casing) ^l

Time: A3)

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS	DO mg/L	Spec. Cond, mS/cm
irtS	<i>Ho*lf>>*</i>	<vA	<i>~W</i>	113	06	Ui	H3
W50		P23	-po	"7.11	*s-	1.-75	
lSS	]	<i>g\$z</i>	- 7o	W	05	/ ^	ml
g00		<i>7Vb</i>	-ni	£07	OS	J-51	T3
iaos		22*	-IT*-	?tf	06	1.56	113
&v		22 f	^	-M	<i>Ot</i>	\6Z-	nrz

Sampling:

Time of Sample Collection 1010

Collection Method:

☒ Dedicated pump

Analyses:

☒ VOCs

Analytical Method:

8260 ☒ 503 Other

Observations:

Weather/Temperature: 5 ^, ~7C

Sample Description: cu*^

Free Product?	Yes	No *	Descriptor

Sheen?	Yes	No *	De script.:

Odor?	Yes	No x^	De script.:

Comments:

te/mtt -^ Qr wu s~fo

ECOR Solutions, Inc.
Byron Barrel & Drum Site
 Field Sampling Record Form

 Site: Byron Barrel and Drum

 Date: 11/14/2014

Job #: 01501.002

 Sample ID: W-ff f&U^J

 Well ID: HW'^^

Time onsite: Time Offsite:

 Samplers: *r < u ^-

 Depth of Well (from top of casing) L Hi

 Time: j H I

 Static water level (from top of casing) •'__'

 Time: 1*>
Purging Method:
Dedicated bladder pump, QED SamplePro MP-SP-4C
Field Tests:

Time	Flowrate (mUmin) / purge volume (ml)	Temp. °C	ORP mV	pH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
qs0	<u>H\$*A/*A)</u>	<u>1^0</u>	<u>'IT?</u>	<u>lie</u>	<u>l.j</u>	<u>0.<<r</u>	<u>• it-73</u>
<?SS		15.5	<u>-n(></u>	<u>-1*1</u>	<u>M</u>	<u>o.\$fc</u>	<u>/C5D</u>
/V>0		<u>l**!</u>	<u>-i*i</u>	<u>16-Z-</u>	<u>1.1</u>	<u>0.^5</u>	<u>l7on</u>
IOCS'		<u>15'1</u>	<u>-W</u>	<u>1-1,0</u>	<u>ll</u>	<u>0-2S</u>	<u>rm</u>
IOIO		<u>IS-3</u>	<u>->i</u>	<u>161</u>	<u>11</u>	<u>0-2i</u>	<u>mc</u>
lois	<u>1</u>	<u>ISS</u>	<u>-2oi</u>	<u>1.61</u>	<u>l-l</u>	<u>o.i3</u>	<u>nv7</u>

Sampling:Time of Sample Collection 1013*Collection Method:*☒ Dedicated pump*Analyses:*☒ VOCs*Analytical Method:*8260 ☒ 503 Other:

Observations;

Weather/Temperature: s^ ifSample Description: Cfe*"\Free Product? Yes No K Descript.:Sheen? Yes No ^ , Descript.:Odor? Yes No r Descript.:

Comments:

\JQC kw} laWl

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: " TM *
Job #: 01501.002
SampleID: flVM^ (GvW)
Well ID; ft^l Time onsite: Time Offsite:
Samplers: ~TP,, h & ?05 T ^ «3S

Depth of Well (from top of casing) IUS Time ei^T l" '
Static water level (from top of casing) Time: 10\$

Purging Method:
Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate(mUmin)/ purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
cllS	3o#lj»*^	lu	-153	777	0G	3M	<f07
<l/o		l/,.0	-131	7 i £	0.6	h<&	<fc5
%<)		^	-150	1-15	ot>	XCl	?n
q<0	1	tftf	-l?1	1-11	0>6	2M	m
V5	1	IS-?	- \ ^	775	0 - ^	3.55	^s

Sampling:

Time of Sample Collection

t3f

Collection Method:

X Dedicated pump

Analyses:

X VOCs

Analytical Method:

8260 X 503 Other:

Observations:

Weather/Temperature:

Sample Description:

CU*v

Free Product?

Yes

No

K

Descript.;

Sheen?

Yes

No

* "

Descript.:

Odor?

Yes

No

X

Descript.:

Comments:

APPENDIX B
Data Validation Report

Project Byron Barrel and Drum Site
Laboratory: Test America
Sample Delivery Group: A08-B797
Fraction: Organic
Matrix: Aqueous
Report Date: 12/15/2008

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Test America.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

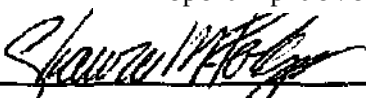
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HVV-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

- X Data Completeness
- X Chain of Custody Documentation
- X Holding Times
- X Instrument Performance
- X Initial and Continuing Calibrations
- X Laboratory and Field Blank Analysis Results
- X Surrogate Compound Recoveries
- X Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
- X Field Duplicate Analysis Results
- X Laboratory Control Sample Results
- X Internal Standard Performance
- X Qualitative Identification
- X Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:


 Shayfre M. Rodgers
 President


 Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples MW-4 and DUP-9 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. Results for the duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds to evaluate aqueous field duplicate samples

10.0 *LABORATORY COMROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTTTATTON/REPORTING LIMITS*

The following samples were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target

compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

<u>Sample</u>	<u>Dilution Factor</u>
MW-1	2.0
DUP-9	2.0
MW-4	2.0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates H, HA, and HI, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-O20, March 1983, and revisions

Table 1 Samples For Data Validation Review
Groundwater Sampling September 2008
Byron Site Groundwater Monitoring
Byron Township, New York
Test America Sample Delivery Group A08-B797

Sample ID	Lab ID	Collection Date	MATRIX	VOC	TSS
Dup	A8B79707	9/25/2008	Water	X	
MW-1	A8B79701	9/25/2008	Water	X	
MW-10B	A8B79703	9/25/2008	Water	X	
• MW-4	A8B79702	9/25/2008	Water	X	
PW-1	A8B79704	9/25/2008	Water	X	X
PW-2	A8B79705	9/25/2008	Water	X	X
PW-3	A8B79706	9/25/2008	Water	X	X
Trip Blank	A8B79708	9/25/2008	Water	X	

Notes:

VOC Volatile Organic Compounds

TSS Total Suspended Solids

Table 2 Field Duplicate Sample Results for Organic Analyses
Duplicate Samples MW-4 and DUP

	MVV-4 (fxg/L)		DUP (H«rt-)		RPD	Comments
1,1-Didiloroethane	16		11		37.0	
1,1,1-Trichloroethane	28		15		60.5	
Trichloroethene	4	J	2	J	66.7	
2-Butanone	3	J	3	J	0.0	

ECCR SOLDTTCNS
ECCR somrrcNS
AQUEOUS ASP 2000/8260 - SBLBCT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

DUP

lab Name: TestAnerJ, ^ TaHirgtories Inc. Cbnttract:lab Code: RBCHY Case No.: _____ SAS No.: _____ SDGNo.: _____Matrix: (soil/water) WATERLab Sample ID: ABB79707Sample wt/vol: 5.00 (g/mL) MLLab File ID: P1710.RRLevel: (low/med) LOWDate Sanp/Recv: 09/25/2008 09/25/2008

% Moisture: not dec. _____ Heated Purge: N;

Date Analyzed: 10/03/2008GC Colurrci: ZB-624 ID: 0.25 (rim)Diluticn Factor: 2.00Soil Extract Volume: <uL

Soil Aliquot' Volume: _____ (uL)

OCNCENTRKTICN UNITS:

CAS NO.

CCMKXND

(ug/L or ug/K^)

13G/L

75-34-3---~---1/l-Dichloroethane	" : 16	
75-35-4---1,l-mchloroethene	10	u
75-09^2---Methylene chloride	10	u
108-88-3---Toluene	10	u
71-55-6.---1,1,1-Trichloroethane	28	
79-01-6---Trichloroethene .	4 .	J
75-01-4---Vinyl chloride	10	u-
71-43-2---Benzene	10	u
1330-20-7---Total Xylenes	; • so-	u
108-90-7---Chlorobenzene	io	u
79-00-5---1,1,2-Trichloroethane	10	u
107-06-2:---1,2-Dichlaroethane	10	u
127-18-4---Tetrachloroethene	10	u
67-66-3---Chloroform	10	u
75-27-4---BrcnDiL<dilcaxmethane	10	u
124-48-1---DihrarocMarcrrthane	10	u
78-93-3---2-Butanone	3 .	J
S6-21-5---Ca-rtmn TM-rarKlorirt?	10	u
95-50-1---1,2-Dichlorobenzene	10	u
106-46-7---1/4-Di<^orobenzene	10	IT

15/264

BCER SOLUTIONS
EOCR SOLUTIONS
AQUEOUS ASP 2000/8260 -, SRTFTT UST-TABLE 5
ANALYSIS DATA SHEET

Client *b.

MW-1

lab Name: TestAmerica Tflhoratories Inc. Contract:Lab Code: REQJY Case ND.: ^ _____ SASNb.: SDGNb.:Matrix: (soil/water) WATERLab Sample ID.: A8B79701Sample wt/vol: 5.00 (g/mL) MLLab File ID.: P1701.RR

Level: (lcw/roed) LOT

Date Samp/Recv: 09/25/200a 09/25/2008

% Moisture: not dec. - Heated Purge; N

Date Analyzed; 10/03/2008GC Column: ZB-624 ID: 0.25 (mm)

Dilution Factor: 2.00 .•.

Soil Extract Volume: <uL)

Soil Aliquot Volume: (uL)

CTNCENIEATiaN UNITS:".

CASKD. COMPOUND

(ug/L or ug/Kg) UG/L

75-34-3—1,1-Dichloroethane	20	J
75-35-4—1,1-Dichloroethene	10	IT
75-09-2—Methylene chloride	10	U
108-88-3—Toluene	10	
71-55-6—1,1,1-Trichloroethane	47	J-
79-01-6—Trichloroethene	10	u
75-01-4—Vinyl chloride	10	u
71-43-2—Benzene	10	u
1330-20-7—Total Xylenes	30	u
108-90-7—Qilobenzene	10	u
79-00-5—1,1,2-Trichloroethane	10	u
	10	u
127-18-4—Tetrachloroethene	10	u
	10	u
75-27-4—BromcdLchloromethane	10	u
124-48-1—Diiaxxicchloromethane	10	u
78-93-3—2-Butanane	20	u
Sfi-23-5—O^rhnn TetTTwiilnride	10	u.
95-50-1—1,2-Dichlorobenzene	10	u
106-46-7—1,4-LUchlorobenzene	10	u

SM
2/14/2008

BXR sotuncMS
EOR SOLUTIONS
AQUEOUS ASP 2000/8260 r SELECT LIST-TABLE 5
ANALYSIS DKTA SHEET

Client No.

1W-10B

Lab Name: TeBtfimarJra TaWratoriea Inc. Contract:

lab Cede: RECNY Case No.: SAS No. SDGNo.

ffatrix: (scdlAsater) ^STER

Lab Sample ID: Aflg79703Sample wt/vol: 5.00 (g/mL) |£JLab File ID: .- / P1703.RR

Level: (low/med) LCW

Date Sanp/Rec\r: 09/25/2008 09/25/2008 -

% MDisture: riot dec. _^_____Heated Purge: N

Date Analyzed: , 10/03/2008GC Oolumn: ZB-624 ID: 0.25 (mm)Dilution Factor: 1.00

Soil Extract Volume: (uL)

Soil Aliquot Volume: (UL)

CENTHIKATION UNITS:

CRSND.

CCMPOUND

(ug/L or ug/I^)

UG/L

75-34-3- . . . ^1,1-Dichlaroethane	5	U
75-35-4---r-rl_f 1-Dichloroethene	5 "	U
75-09-2-----rMethylene chloride	'5. "	U-
108-88-3-----Toluene	'5. "	V
71-55r6-----^1A/I-Trichloroethane	5	j
79-01-6-----Tric^aroethene	5	u
75-01^4---r-V+nyl chloride	5	u
71-43-2-----^Benzene	5	u
1330-20-7-----Total Xylenes	15	u .
108-90-7^---^Chlorobenzene	5	u
79-00-5-----1,1,2-Trichloroetharie	5 "	u
107-06-2-----1,2-Dichlaroethaie	5	u
127-18-4-----Tetrachloroethene	5	u
67-66-3-----Chloroform	5	u
75-27-4-----Bronodichlctrcmethane	5	u
124-48-1---7--DibrcirDchloranethane	5	u
78-93-3-----2-Butanbne	io"- "	u
56-23-5-----Ovrtnn Tpf-rarhlride	5	u
95-50-1-----^1,2-Dichlorcfcenzene	5	u
106-46-7-----1,4-Dic+larcfaenzene	5	u

BOCR *aaumats*
ECER somncNs
AQUEOUS ASP 2000/8260 r- SELECT LIST-1RBLE 5
ANALYSIS DATA SHEET

Client No.

Mff-4

Lab Name: Testfimeri'-a rah^tories Inc. Contract:Lab Cocfe: KEOW Case No. SAS No.: SDGNb.:Matrix: (soil/water) WKIER Lab Sample ID: ABB79702.Sample wt/vaL: 5:00 (g/mL): ML Lab File ID: P1702.KRLevel: (low/med) LCW Date Sanp/Recv: 09/25/2668 09/25/2008% Moisture: not dec. • Heated Purge: N Date Analyzed: 10/03/2008GC Column: ^ -624 ID: 0.25 (mm) Dilution Factor: •• :..2:00.Soil Extract Volume: ' • • • (uL) Soil Aliquot Volume: :< -v." (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	U3/L	P
75-34-3	1,1-Dichloroethane			
75-35-4	1,1-Dichloroethene			
75-09-2	Methylene chloride			
108-88-3	Toluene			
71-55-6	1,1,2-Trichloroethane			
79-01-6	Trichloroethene			
75-01-4	Vinyl chloride			
71-43-2	Benzene			
1330-20-7	Total Xylenes			
108-90-7	Chlorobenzene			
79-00-5	1,1,2-Trichloroethane			
107-06-2	1,2-Dichloroethane			
127-18-4	Tetrachloroethene			
67-66-3	Chloroform			
75-27-4	Bis(2-chloroethyl) ether			
124-48-1	1,1-Dibromoethane			
78-93-3	2-Butanone			
5fi-2V5	Chloroform			
95-50-1	1,2-Dichlorobenzene			
106-46-7	1,4-Dichlorobenzene			

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ECCR SQUJUCNS
ECCR SOLUIICNS
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMEDS
ANALYSIS DMA SHEET

Client No.

PW-1

Lab N&ire: TestAmerica Laboratories Inc. Contract:Lab CPcJe: RECNY Case No.: _____ \ SAS No.: SDGNb.:Matrix: (soil/water) WKFIH Lab Sample ID: f1BB79704Sample wt/vol: 5.00 (g/nL) ML Lab File ID: P1763.HRLevel: (low/med) LOW Date Sanp/Recv: 09/25/2008 09/25/2008% Moisture: not dec. . Heated Purge: N Date Analyzed; 10/05/2008 "GC Column: ZB-624 ID: 0.25 (mro Dilution Factors 1.00 .Soil Extract Volume: . - (uL) Soil MigL^Volvime: (uL)

CONCENTRATION UNITS:

CAS NO.	CCMPC(M).	(ua/L or va/Kb)	U3/L	V Q
75-34-3--T--->	1,1-mchloroethane		• • " 12	
75-35-4-----	1,1-Dichloroethene		. \ . 5 : . - \ - '	u
156-59-2---^--cds-	1,2-Dichloroethene		• - ' 5 . - '	u;
			• - . 5	u
108-88-3-----	Toluene . . .		• V - , 2' '...	J -...
71-55-6-----	1, 1,1-Trichloroetbane		3 < " , , , '	J
79-01-6-----	Tcichloroethene		6.6	J . ? . "
75-01-4-----	Vinyl chloride		" • : 5' "•	XJ

19/264

ECOR sommrcNs
ECOR scsmncNs.
AQUEOUS ASP 2000/82613 - SELECT LIST - 8 CMES
ANALYSIS Dam SHEET

Client No,

PW-2

lab Name: TestAmsyHfpa Tahr>ratories tnc. Ctantract:Lab Cods: RECNY Case No.: • SAS No.: SDGNb.:Matrix: {soil/water) WATER lab Sample ID: A8B79705Saitple wt/vol: 5.00 (g/mL) JfJ Lab File 3D: PV?64\ BRLevel: (lqw/med) IOW Date Sanp/Recv: 09/25/2008:09/25/2008% Moisture: not dec. • Heated Purge: N pate Analyzed: 10/05/2008GC Column: ZB-624 ID: 0.25 (tim) Dilution Factor: 1.00 ,;.Soil Extract Volume: '-' (uL) Soil Aliquot Volume: ..- -• ..'.. (uL)

CAS NO. ; COMPOUND . CCNCENRfTICN UNITS
(ug/L or ug/K&) *U?/L ; Q

75-34-3	1,1-Dichloroethane	. 14 . :	
75-35^4	1,1-Dichloroethene	. 5 . :	U
156-59-2	cds-1,2-Diciilorcethene	. 5 . :	u
75-09-2	Mstylene chloride	5 . :	U
108-88-3	Ttoluene .	. 3 . :	J
71-55-6	1,1,1-Iiidiloroetharie	. 5 . :	u
79-01-6	Trichlaroethene	0.7	J
		5 . :	u

Client No.

IWT3

Lab Name: TestAmerica laboratories Inc. Contract:

Lab Code: REQY Case No.: ______L SAS No.: SDG No.:

Matrix: (soil/water) W&TRP

Lab Sample ID: A8B79706

Sample wt/vol: 5.00 (g/mL) ☒ J

Lab File ID: PT709.RRLevel: (low/med) LOW

Date Sanp/Recv: 09/25/2608 09/25/2008

% Moisture: not dec. • • • Heated Purge: N

Date Analyzed: IO/03/260B-

GC Coliirn: ZB-624 ID: 0.25 (irm)Dilution Factor: 1.00 .

Soil Extract Volume:_____ (uL).

Soil Aliquot Volume: 0.05 mL

CAS NO.	CCMPOND	CCNCENIKATION UNITS: (ug/L or ug/l^)	UG/L	:	rQ	u
75-34-3	l-Dichloroethane		5		U	
75-35-4	1,1-Dichloroethene		5		U	
156-59-2	cis-1,2-Dichloroethene		5		u.	
75-09-2	Methylene chloride		5		V	
108-88-3	Toluene		5			
71-55-6	1,1,1-Trichloroethane		22			
79-01-6	Trichloroethene		5		u	
75-01-4	Vinyl chloride		5			

5/12/2008

21/264

ECCR SQUITTIONS
ECCR SOLUTIONS
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client lfc>.

TRIP BLANK

Lab Maine: TeatAmsrira faHprcataries Inc. Cbnttract:Lab Code: RECNY Case No.: _; SAS 2fo.: SEGNO.:Matrix: (soil/water) ftRTraLab Sample ID: A8B79708:Sample wt/vol: 5.00 (g/mL) MLLab File ID: P1711.RRLevel: (low/mad) LOWDate Sano/Recv: ^09/25/2008' 09/25/2008% Moisture: not dec. - - Heated Purge: NDate Analyzed: 10/03/2008GC Ooiumri: ZB-624 ID: 0.25 (inn) .Dilution Factor: JUfiQSoil Extract Volume: __1 <uL)Soil Aliquot Volume: _i_, (uLJ

CCN3NIRATICN UNITS:
(ug/L or ug/K£) . IC/Ii

CftS NO. COMPOUND;

75-34-3	1,1-Dichloroethane	5.0	U ⁴
75-35-4	1,1-Dichloroethene	5.0	U ⁴
75r09,2	^Methylene chloride	5.0	U ⁴
108-88-3	Toluene	5.0	U ⁴
71-55-6	1,1,1-Trichloroethane	5.0	U ⁴
79-01-6	Trichloroethene	5.0	U ⁴
75-01-4	Vinyl chloride	5.0	U ⁴
71-43-2	Benzene	5.0	U ⁴
1330-20-7	Total Xylenes	5.0	U ⁴
108-90-7	Crderobenzene	5.0	U ⁴
79-00-5	1,1^2-Trichloroethane	5.0	U ⁴
107-06-2	1,2-Dichloroethane	5.0	U ⁴
127-18-4	Tetrachloroethene	5.0	U ⁴
67-66-3	Chloroform	5.0	U ⁴
75-27-4	BroirDdichloraniethane	5.0	U ⁴
124-48-1	DihrcnDchlcsratAane	5.0	U ⁴
78-93-3	2-Butancne	5.0	U ⁴
56-23-5	Carbon tetrachloride	5.0	U ⁴
95-50-1	1,2-Dichlorobenzene	5.0	U ⁴
106-46-7	1,4-Dichlorobenzene	5.0	U ⁴

22/264

Bear Solutions
Eoor Solutions
Wet Chemistry Analysis

Client Sample ND.

EW-1

lab Name: IestAmerJra Tahrtr-atories Inc.

Cbnttract:

lab Oode: REQW

Case No.: _____

SAS No.;

SDGNb. :

Matrix (soil/rater): WaiBllab Sample ID: ABB79704% Solids: 0.0Eate Samp/Recv: 09/25/2008 09/25/2008

Iferameter Name	Units of Measure	Result	C	Q	M	Method Nuriher	Analyzed Eate
Total Suspended Solids	M3/L	610				2540D	09/26/2008

Ctnments:

Sm
12/1/2008

Boor Solutions
Ecor Solutions
Wet Chemistry Analysis

23/264

Client Sample No.

PW-2

Lab Name: TestAmerica Laboratories Inc.

Contract:

Lab Code: RBCNY Case Info.: _____

SAS No.:

SDGNo.:

Matrix (soil/water): WATTR

Lab Sample ID: A8B79705

% Solids: 0.0

Date Sample/Received: 09/25/2008 09/25/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	2690				2540D	09/26/2008

Remarks:

*SM
12/14/08*

24/264

Eoor Solutions
Eoor Solutions
Kfet Chemistry Analysis

Client Sample No.

PW-3

Lab Name: TegtfmerTM JaVYnratorles Inc.

Contract:

Lab Code: REONY

Case No.: _____

SAS No.:

SCGNb.:

Matrix (soil/water): WaterLab Sample ID: A8B79706% Solids: 0.0Date Samp/Kecv: 09/25/2008 09/25/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			2540D	09/26/2008

Ocnments:

SM
12/11/2008

ECOR SOLUTIONS
ECOFI SOLUTIONS
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
WATER SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories Inc. Contract:

Lab Code: RECNY Case No.: _____ SAS No.; SOG No.

	Client Sample ID	Lab Sample ID	BFB XREC #	MX XREC #	TOL XREC #						TOT OUT
1	DUP	A8B79707	105	116	106	fcaggTIUTi					0
2	HSB05	A8B2354201	109	120	107						0
3	MSB07	ABB2357401	106	110	105						0
4	HU-1	A8B79701	107	116	107						0
5	HU-10B	A8B79703	107	116	108						0
6	HU-10B	A8B79709HS	107	113	108						0
7	KU-10B	A8B79703SD	105	110	106						0
8	HW-4	A8B79702	105	112	106						0
9	TRIP BLANK	A8B7970B	104	116	106						0
10	VBLK05	A882354203	104	123	107						0
11	VBLK07	ABB2357402	104	118	106						0
12	VHB	A8B79709	107	120	108						0

QC LIMITS

BFB = p-Bromofluorobenzene (73-120)
DCE = 1,2-Dichloroethane-D4 (66-137)
TOL = Toluene-D8 (71-126)

ft Column to be used to flag recovery values
* Values outside of contract required QC Units
D Surrogates diluted out

Handwritten signature and date: 8/24/2008

APPENDIX C
ISRT Analytical Data

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8B79601	MW-1-9/GW-27	WATER	09/25/2008	09:35	09/25/2008	16:15
A8B84001	MH-1-9/GW-27	WATER	09/25/2008	09:35	09/25/2008	16:15
A8B79602	MW-10B-9/GW-27	WATER	09/25/2008	12:10	09/25/2008	16:15
A8B84002	MW-10B-9/GW-27	WATER	09/25/2008	12:10	09/25/2008	16:15
A8B79603	MW-4-9/GW-27	WATER	09/25/2008	10:15	09/25/2008	16:15
A8B84003	MM-4-9/GM-27	WATER	09/25/2008	10:15	09/25/2008	16:15
A8B79604	PW-1/GW-27	WATER	09/25/2008	13:00	09/25/2008	16:15
A8B84004	PW-1/GW-27	WATER	09/25/2008	13:00	09/25/2008	16:15
A8B79605	FW-2/GW-27	WATER	09/25/2008	12:00	09/25/2008	16:15
A8B84005	PW-2/GW-27	WATER	09/25/2008	12:00	09/25/2008	16:15
A8B79606	PW-3/GW-27	WATER	09/25/2008	12:30	09/25/2008	16:15

METHODS SUMMARY

Job#: A08-B796.A08-B840Project#: NY1A8798SD3#: B796Site Name: Ecor Solutions

PARAMETER	ANALYTICAL METHOD	
DISSOLVED GASES - CARBON DIOXIDE ONLY (SUBTRACTED)	OTHER	RSKL75
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	OTHER	RSKL75
Iron - Soluble	SW8463	6010
Iron - Total	SW8463	6010
Manganese - Soluble	SW8463	6010
Manganese - Total	SW8463	6010
Biochemical Oxygen Demand	SM20	5210B
Chemical Oxygen Demand	MCAWW	410.4
Chloride	SW8463	9056
Nitrate-Nitrite	MCAWW	353.2
Sulfate	ASTM	D-516-90
Sulfide	SM20	4500-S F
Total Kjeldahl Nitrogen	MCAWW	351.2
Total Organic Carbon	SW8463	9060
Total Phosphorous	SM20	4500-P E

References:

ASTM	"Annual Book of ASTM standards", American Society for Testing and Materials, Philadelphia, PA.
MCAWW	"Methods for Chemical Analysis of water and wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
OTHER	Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory
SM20	"Standard Methods for the Examination of water and Wastewater", 20th Edition.
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update I3B, 1/95; Update III, 12/96.

SDG NARRATIVE

Jobtf: A08-B796.A08-B840Projects NYIA8798SD3#: B796Site Name: Ecor SolutionsGeneral Cerements

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

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

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

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

Sample Receipt comments

A08-B796

Sample Cooler(s) were received at the following temperature(s), * 4.0 °C
All samples were received in good condition.

A08-B840

Sample Cboler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

GC Volatile Data

Carbon Dioxide was subcontracted to TestAmerica Austin. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Carbon Dioxide may be found within the comment summary of the subcontract report.

Metals Data

The analyte Iron was detected in the Method Blank A8B2317602 at a level above the project established reporting limit. However, all samples had levels of Iron greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

Wet Chemistry Data

The bracketing Biochemical Oxygen Demand DCS recovery for samples Mtf-4, EW-1 and EW-2 was below control limits.

Samples MW-4, EW-1 and EW-2 were initially analyzed within the analytical holding time using multiple dilutions for Biochemical Oxygen Demand, However all of the oxygen was depleted. The results could not accurately be quantified.

Sample EW-2 was initially analyzed within the analytical holding time using multiple dilutions for Biochemical Oxygen Demand, however all of the oxygen was depleted. The sample was reset outside of analytical holding time, again using multiple larger dilutions, and again all of the oxygen was depleted. The results could not accurately be quantified.

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

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer
Project Manager

Date

Date: 10/10/2008

Time: 12:09:56

Dilution Log w/Code Information

For Project NY1A8798, SOG B796

Rept: AN1266R

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
MW-1-9/GW-27	A8S79601	Chloride	5.00	008
HW-10B-9/GW-27	A8B79602	RSK175	250.00	008
MW-108-9/GW-27	A8S79602	Chloride	5.00	008
HV-4-9/GW-27	A6B79603	RSK175	10.00	008
P1W-4-9/GW-27	A8B79603	Biochemical oxygen Demand	10.00	008
MW-4-9/CW-27	A8B79603	Chloride	5.00	008
HW-4-9/GW-27	A8879603	Total Organic Carbon	10.00	008
MW-4-9/GW-27	A8B79603RE	Biochemical Oxygen Demand	50.00	008
PW-1/GW-27	A8B79604	RSK175	500.00	008
PW-1/GH-27	A8879604	Chemical Oxygen Demand	10.00	008
PW-1/GW-27	A6B79604	chloride	5.00	008
PV-1/GW-27	ASB79604	Manganese - Soluble	5.00	008
PW-1/GW-27	A8B79604	Manganese - Total	5.00	008
PW-1/GW-27	A8B79604	Total Organic Carbon	40.00	008
PW-1/GW-27	A8879604RE	Biochemical Oxygen Demand	50.00	008
PW-2/GW-27	A8B79605	RSK175	1000.00	008
PW-2/GW-27	A8879605	chemical Oxygen Demand	20.00	008
PW-2/GW-27	A8B79605	Chloride	5.00	008
PW-2/GW-27	A8B79605	Sulfate	2.00	008
PW-2/GW-27	A8B79605	Total Organic Carbon	40.00	008
PW-2/GW-27	A8B79605MS	RSK175	1000.00	008
PW-2/GW-27	A8B79605RE	Biochemical Oxygen Demand	10.00	008
PW-2/GW-27	A8B79605SD	RSK175	1000.00	008
HW-1-9/GW-27	A8B34001	RSK175	10.00	013
HH-10B-9/GW-27	A8B84002	RSK175	3.00	013
MV-4-9/GV-27	A8B84003	RSK175	10.00	013
PW-1/GW-27	A8B84004	RSK175	10.00	013
PW-2/GH-27	A8B84005	RSK175	10.00	013

Dilution code Definition!

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

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

INORGANIC DATA QUALIFIERS

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

Date: 10/10/2008 Time: 12:10:04	Ecor Solutions BYRON SITE - Aqueous DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	Rept: AK0326

Client ID Job No Sample Date	Lab ID	IW-1-9/6V-27 A08-B796 09/25/2008	A8B79601	NW-10B-9/6W-27 A08-B796 09/25/2008	A8B79602	NW-4-9/SU-27 A08-B796 09/25/2008	A8B79603	PW-1/GW-27 A08-B796 09/25/2008	A8079604
Analyte	units	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ethane	UG/L	ND	1.5	ND	380	ND	15	ND	750
Ethene	UG/L	ND	1.5	ND	380	ND	15	ND	750
Methane	UG/L	15	1.0	1000	250	39	10	3300	500

Client 10 Job No Sample Date	Lab ID	PM-2/GW-27 A08-B796 09/25/2008	A8B79605						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Ethane	UG/L	ND	1500	NA		NA		NA	
Ethene	UG/L	ND	1500	NA		NA		NA	
Methane	UG/L	10000	1000	NA		NA		NA	

NA = Not Applicable ND - Not Detected

Date; 10/10/2008
Time: 12:10:04

Ecor Solutions
BYRON SITE - Aqueous
DISSOLVED GASES - CARBON DIOXIDE ONLY(SUBCONTRACT)

Rept: AN0326

Client ID Job No Sample Date		Lab ID		HW-1-9/GW-27 A08-B840 09/25/2008		A8S84001		HW-10B-9/6W-27 A08-B840 09/25/2008		ASB84002		HW-4-9/6U-27 A08-B840 09/25/2008		A8B8W03		PW-1/6W-27 A08-B840 09/25/2008		A8884004	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Carbon Dioxide		UG/L		21000		10000		47000		3000		79000		10000		130000		10000	

Client ID Job No Sample Date		Lab ID	PM-2/6H-27 A08-B840 09/25/2008		A8B84005					
Analyte	units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	sample Value	Reporting Limit	
Carbon Dioxide	uq/L	120000	10000	NA		NA		NA		

Date: 10/10/2008
Time: 12:10:11

Ecor Solutions
BYRON SITE - Aqueous
BYRON - SW8463-6010 TOTAL FE,MN - W

Rept: AN03Z6

Client ID Job No Sample Date		Lab ID		MW-1-9/6W-27 A08-B796 09/25/2008		A8879601		HW-10B-9/GW-27 A08-B796 09/25/2008		A8B79602		HW-4-9/6W-27 A08-B796 09/25/2008 "		A8B79603		PW-1/GW-27 A08-B796 09/25/2008		A8B79604	
Analyte		Units		Sample Value		Reporting Limit		Sample value		Reporting Limit		Sample value		Reporting Limit		Sample value		Reporting Limit	
Iron - Total		HS/L		4.5		0.050		6.6		0.050		35.3		0.050		94.8		0.050	
Manganese - Total				0.66		0.0030		0.61		0.0030		1.9		0.0030		18.8		0.015	

client ID Job No Sample Date		Lab ID		PV-Z/6W-27 A08-B796 09/25/2008		A8B79605													
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample value		Reporting Limit		Sample value		Reporting Limit	
Iron - Total		MG/L		199		0.050		NA				NA				NA			
Manganese - Total		MG/L		7.0		0.0030		HA				NA				NA			

NA ° Not Applicable NP = Not Detected

TestAmerica Lab

Date: 10/10/2008
Time: 12:10:11

Ecor Solutions
BYRON SITE - Aqueous
BYRON - SW8463- 6010-DISSOLVED FE, NN

Kept: AN0326

Client ID Job No Lab ID Sample Date		HV-1-9/6W-27 A08-8796 A8B79601 09/25/2008		NM-108-9/GM-27 A08-B796 A8B79602 09/25/2008		HW-4-9/6W-27 A08-B796 A8B79603 09/25/2008		PW-1/BW-27 A08-B796 A8B7960* 09/25/2008	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit
Iron - Soluble	HS/L	3.8	0.050	6.0	0.050	40. A	0.050	75.2	0.050
Manganese - Soluble	MG/L	0.62	0.0030	0.60	0.0030	2.2	0.0030	17.8	0.015

Client ID Job No Lab ID Sample Date		PU-2/GW-27 A08-B796 A8B79605 09/25/2008							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	sample Value	Reporting Limit	Sample Value	Reporting Limit
Iron - Soluble	HG/L	170	0.050	NA		NA		NA	
Manganese - Soluble	HG/L	6.4	0.0030	NA		NA		NA	

NA = Not Applicable ND - Not Detected

TestAmerica Lab

Date: 10/10/2008
Time: 12:10:15

Ecor Solutions
BYRON SITE - Aqueous
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date		Lab ID		HH-1-9/GW-27 A08-B796 09/25/2008		A8B79601		HW-10B-9/6W-27 A08-6796 09/25/2008		A8B79602		NW-4-9/6W-27 A08-B796 09/25/2008		A8B79603		NW-4-9/6W-27 A08-B796 09/25/2008		A8B79603RE	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Biochemical Oxygen Demand	MG/L	5.1	2.0	36.1	2.0	725 E	2.0	1420	100										
Chemical Oxygen Demand	MG/L	15.2	10	36.8	10	719	10	NA											
Chloride	HG/L	5.2	2.5	3.8	2.5	A.2	2.5	NA											
Mitrate-Nitrite	HG/L-N	ND	0.050	ND	0.050	ND	0.050	NA											
Sulfate	MG/L	20.8	5.0	19.6	5.0	ND	5.0	NA											
Sulfide	MS/L	ND	1.0	ND	1.0	ND	1.0	NA											
Total Kjeldahl Nitrogen	FIS/L-N	ND	0.20	ND	0.20	ND	0.20	NA											
Total Organic Carbon	HG/L	9.7	1.0	17.2	1.0	317	10	NA											
Total Phosphorous	HG/L-P	NO	0.010	ND	0.010	ND	0.010	NA											

Client ID Job No Sample Date		Lab ID		PM-1/6W-27 A08-B796 09/25/2008		A8B79604		PW-1/GW-27 A08-B796 09/25/2008		A8B79604RE		PW-2/GW-27 A08-B796 09/25/2008		A8879605		PW-2/GM-27 A08-B796 09/25/2008		A8B79605RE	
Analyte	Units	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit
Biochemical Oxygen Demand	HG/L	66.0 E	2.0	3780	100	69.1 E	2.0	746 E	2.0										
Chemical Oxygen Demand	MG/L	3940	100	NA		16000	200	NA											
Chloride	HG/L	10.8	2.5	NA		18.2	2.5	NA											
Mitrate-Nitrite	MG/L-N	ND	0.050	NA		ND	0.050	NA											
Sulfate	HG/L	ND	5.0	NA		12.8	10	NA											
Sulfide	HG/L	MO	1.0	NA		1.6	1.0	NA											
Total Kjeldahl Nitrogen	MG/L-N	1.5	0.20	NA		2.0	0.20	NA											
Total Organic Carbon	MS/L	1030	40.0	NA		1360	40.0	NA											
Total Phosphorous	MG/L-P	0.091	0.010	NA		0.25	0.010	NA											

Client ID Job No Sample Date		Lab ID		PW-3/GW-27 A08-B796 09/25/2008		A8B79606											
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Organic Carbon	MS/L	1.5	1.0	NA		NA		NA		NA		NA		NA			

y*
0
4^

Chain of Custody Record

TAL-4124 (1007)

Client £Co{ goU-w^

Address

City Slate Zip Code

Project Name and Location (State) .

Contract/Purchase Order/Quote No. ^

Sample t.D. No. and Description
(Containers for each sample may be combined on one line)

f5V \ ft «TT» lidc 5
%j\^C ljl&j-5l
fW-M-l/fo/'SH
AUJ-ID6-1/GI-37
f*H /gb^~7
pu/-a /Cw-PI
?u/-5TZu/47

Date
W^*

Time

^iS
to*S
J3I0
I3oo
1-200
m^o

Temperature on Receipt

Drinking Water? VesD NoISf

Project Manager KJF

Telephone Number (Area Code)/Fax Number

Site Contact

Lab Contact

Carrier/Waybill Number

Matrix

Containers & Preservatives

TestAmenca

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Data ^-S-Ogr

Lab Number

Analysis (Attach list if more space is needed)

Chain of Custody Number

087568

Page. of

Special instructions/
Conditions of Receipt

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33
3.3

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t l
•*T-¥ 2 * *
#? "73

IOC Onk flv
(V-3

Postoffice Hazard Identification

D Non-Hazard d Flammable £3 Skin Irritant

Q Poison0

• Unknown

Samph Disposal

D Return To Client

• Disposal By Lab D Aeftfcwfb

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

Turn Around Time Required

D 2* Hours • MBMount D 7J\$W • M 0 «*

D 21 Days

• Otter.

1. Relinquished By

2. Relinquished By

3. Relinquished By

Comments

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

iiwnM
Date Vme

Date Time

1. Received By
2. Received By

3. Received By

Date xTfme

Date Time

Date Time

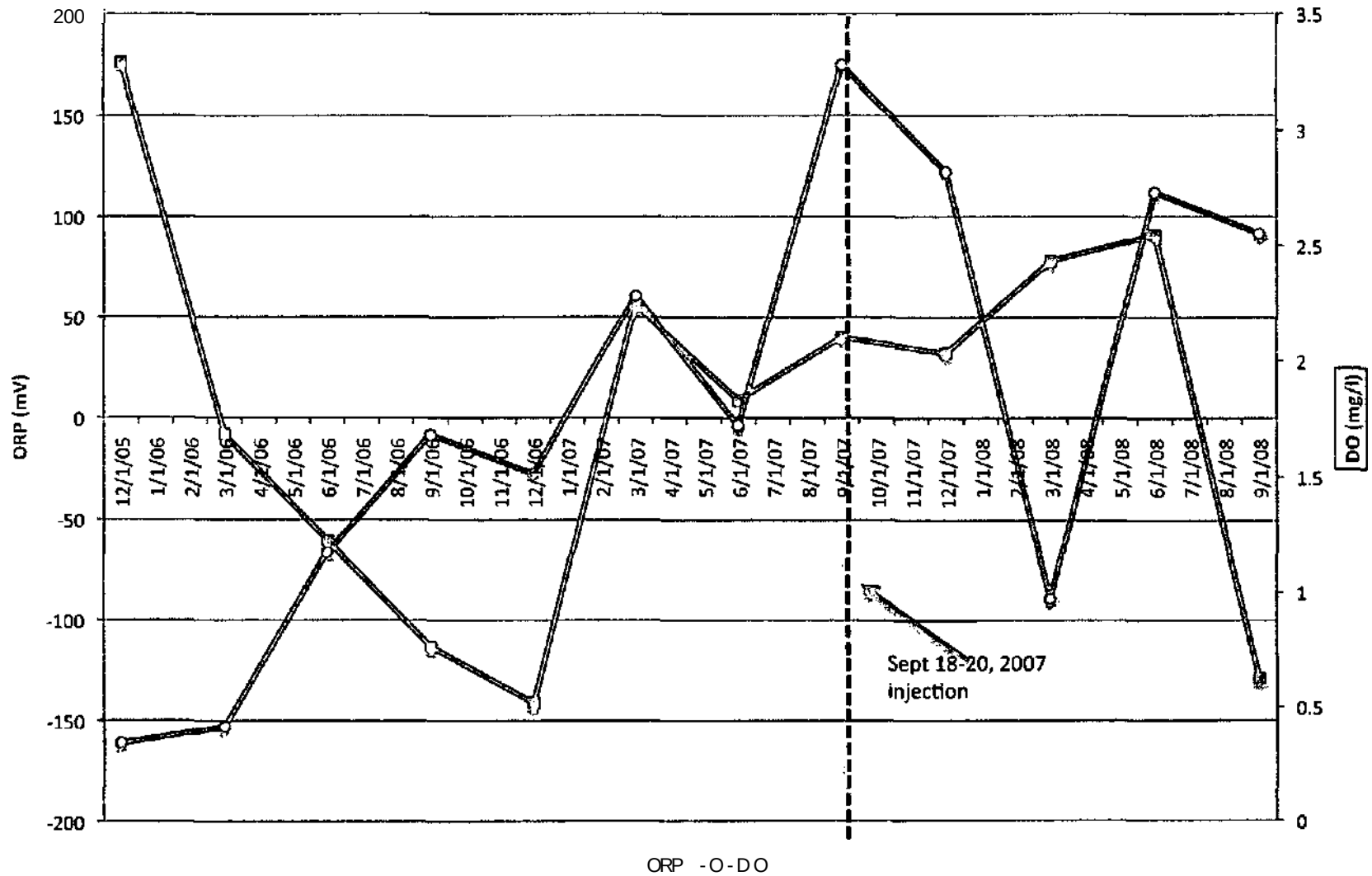
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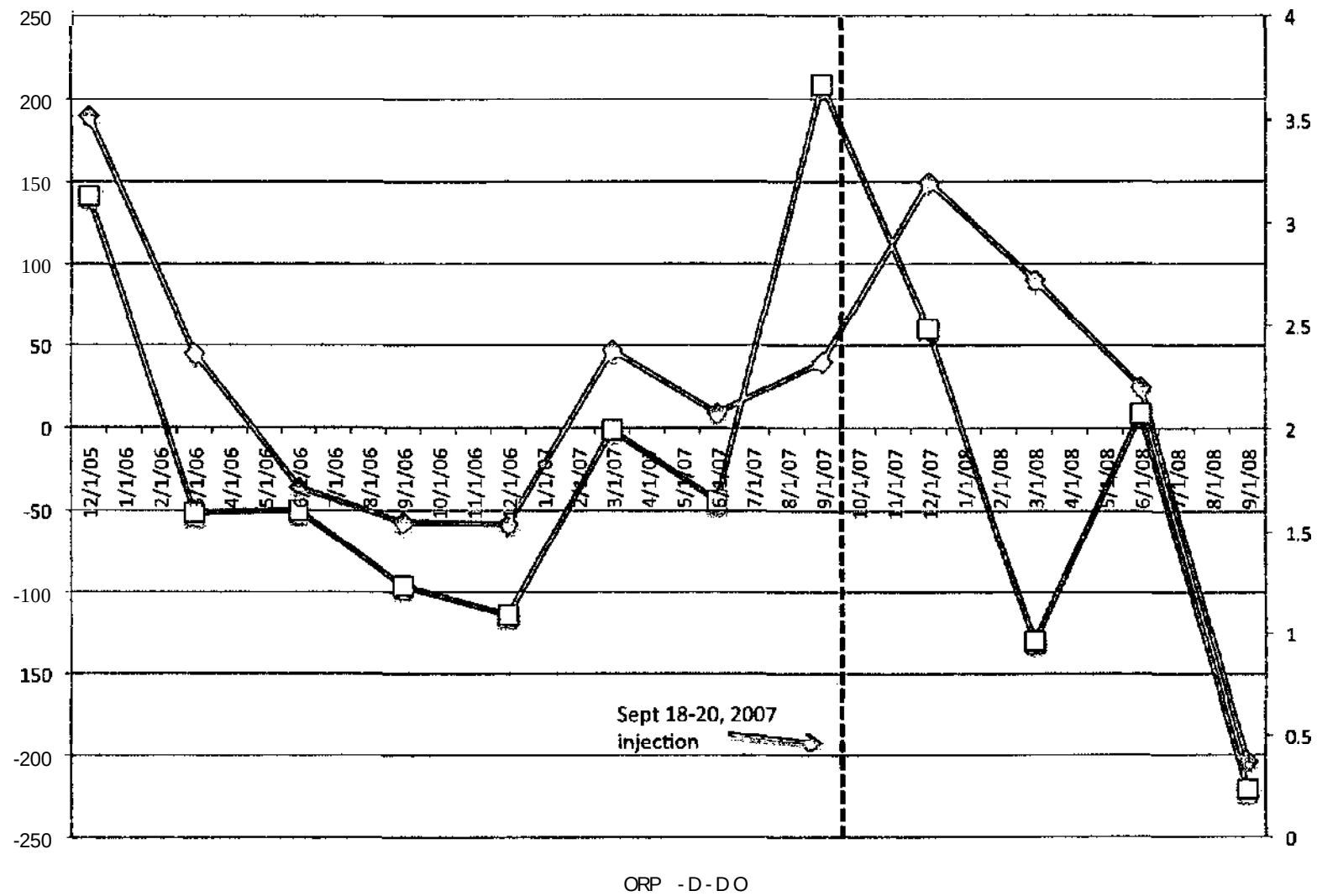
40

APPENDIX D
Groundwater Isoconcentration Graphs

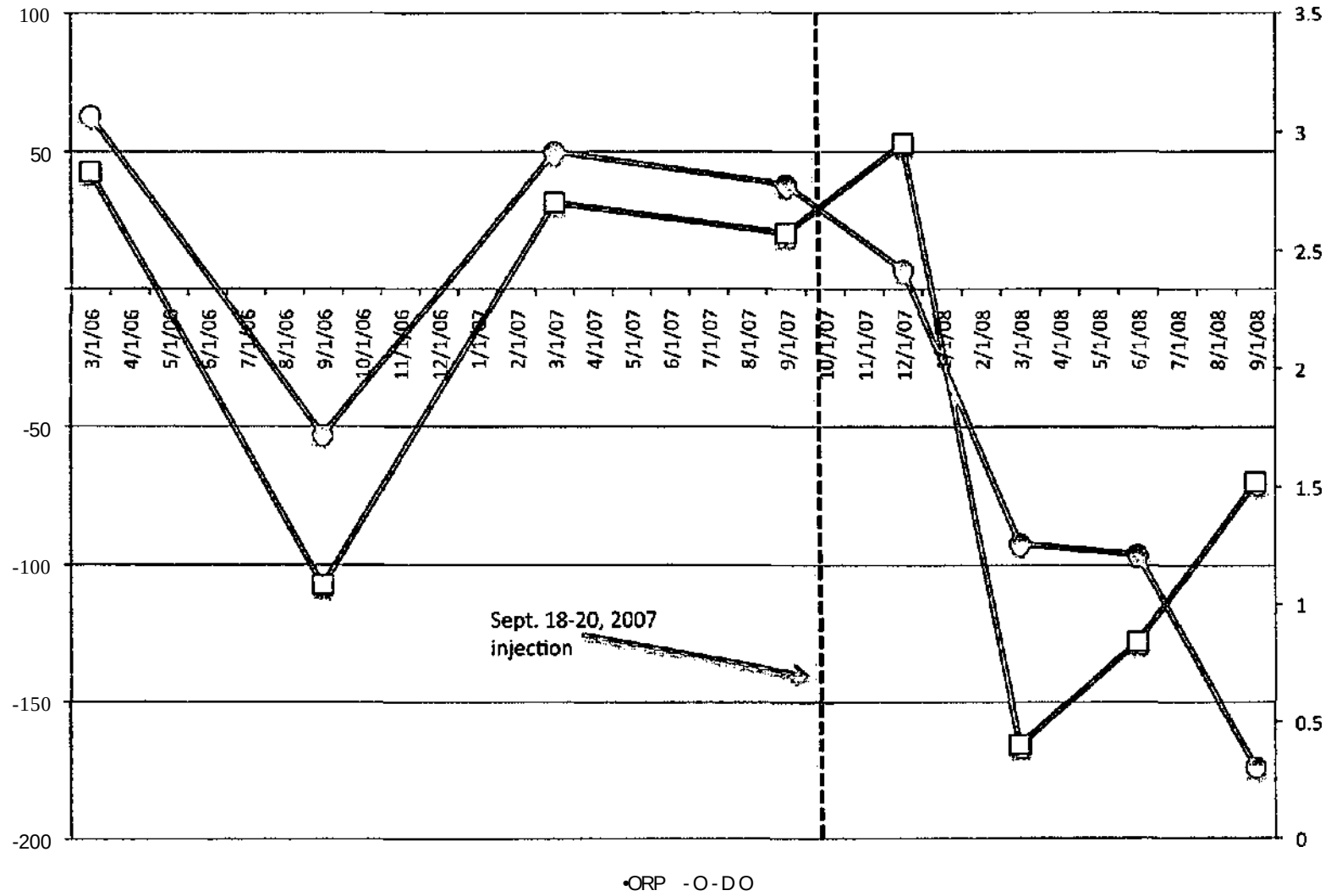
Byron Barrel & Drum MW-1 DO & ORP Monitoring



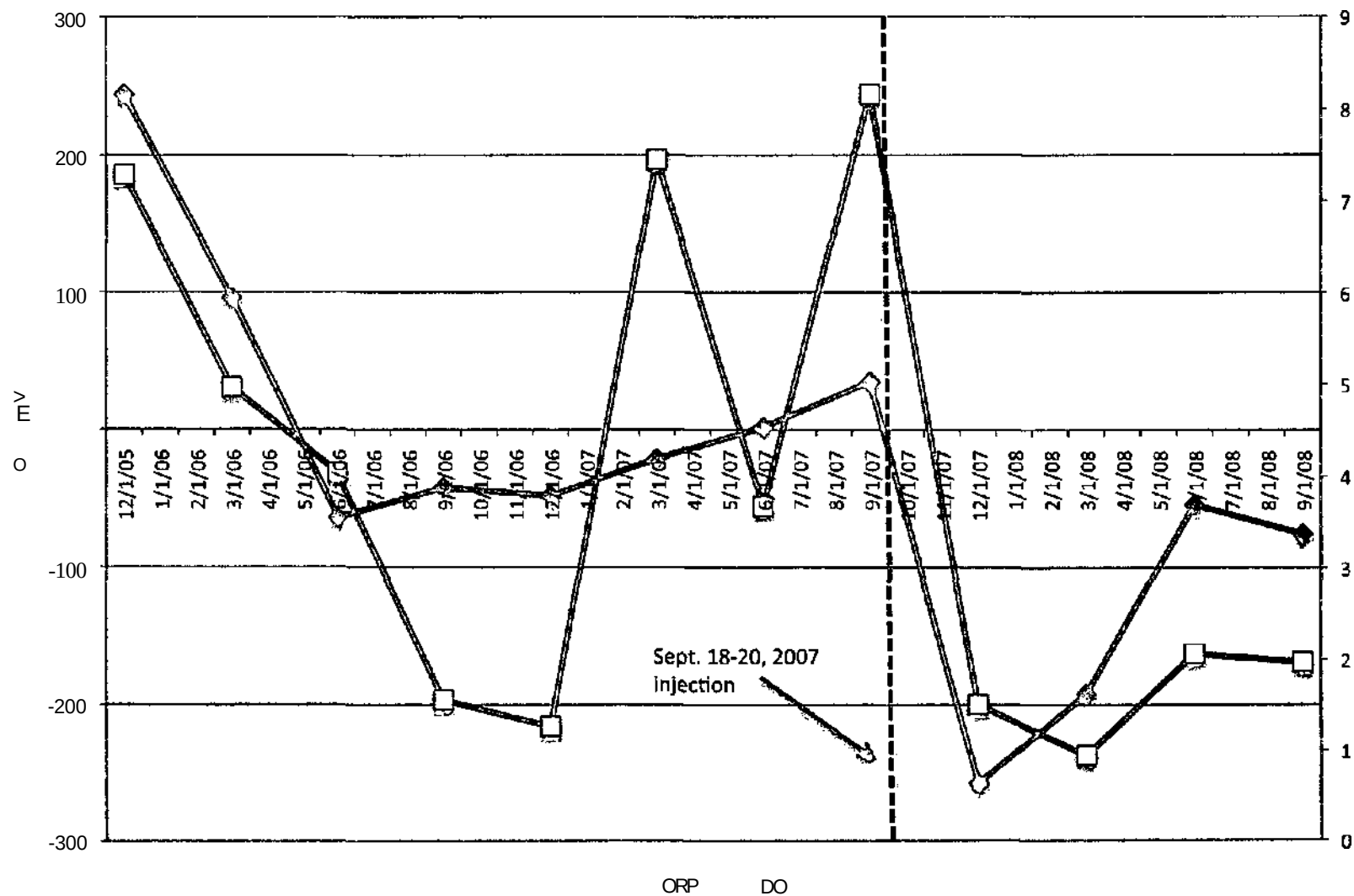
Byron Barrel & Drum MW-4 DO & ORP Monitoring



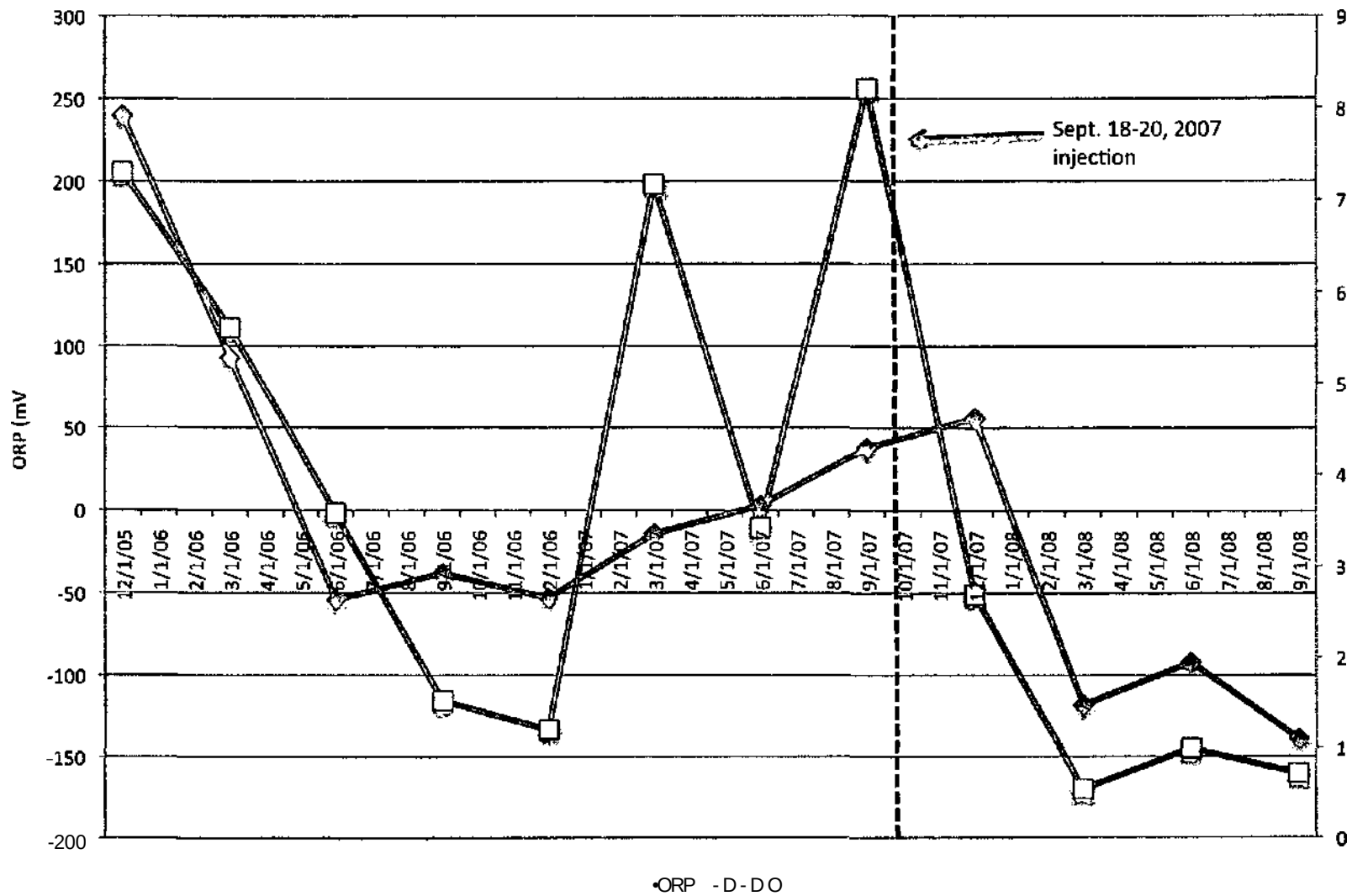
Byron Barrel & Drum MW-IOB DO & ORP Monitoring

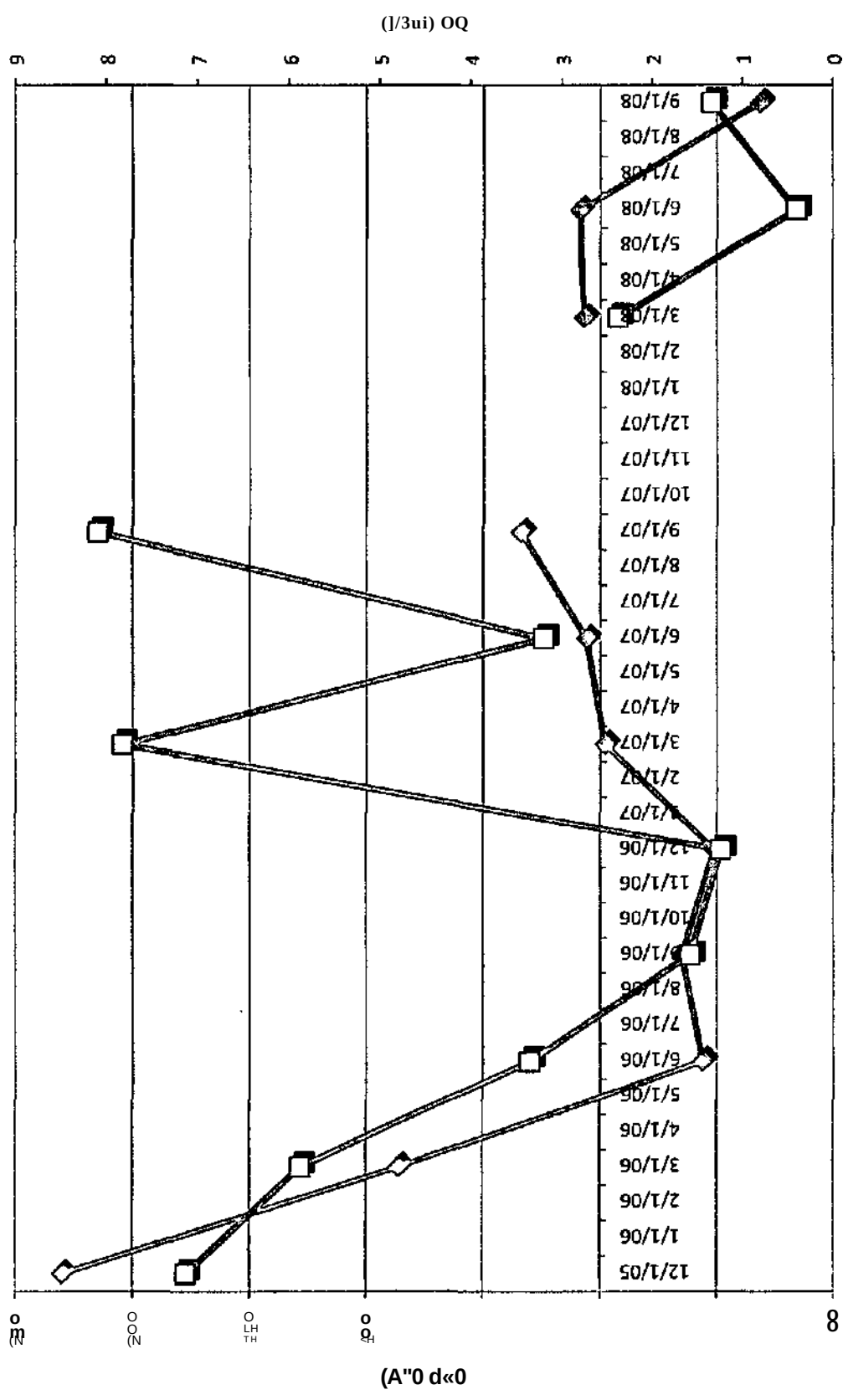


Byron Barrel & Drum PW-1 DO & ORP Monitoring

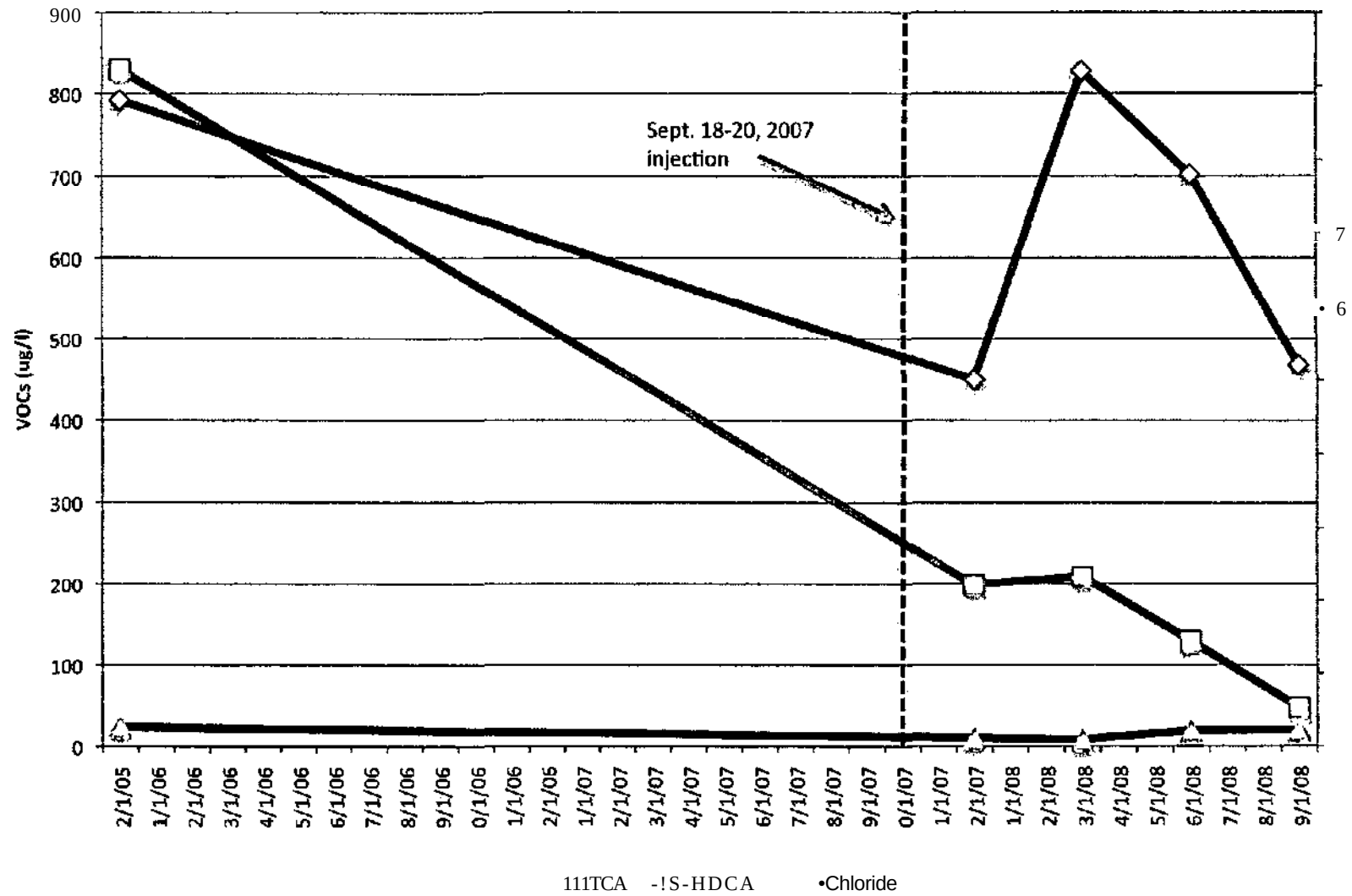


Byron Barrel & Drum PW-2 DO & ORP Monitoring

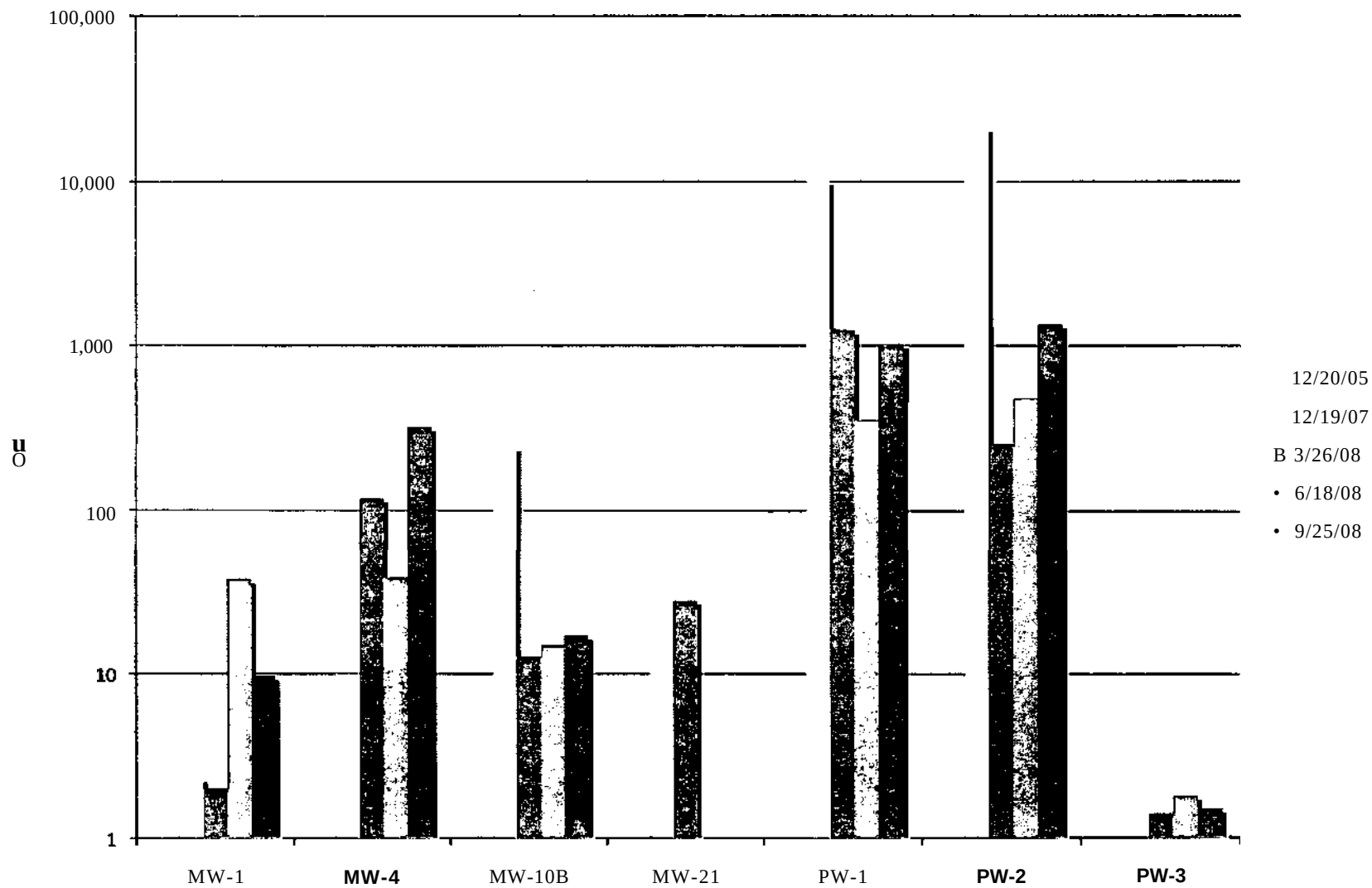




MW-1 Chloride Concentrations



Byron Barrel & Drum TOC Concentrations



Environmental
Construction
**Operations &
Remediation**

ECOR Solutions, Inc.
1075 Andrew Drive, Suite 1
West Chester, PA 19380
Phone (610)840-9200
Fax (610)431-2852

April 15, 2009

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866



Re: Fourth Quarter /Annual 2008 Report
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

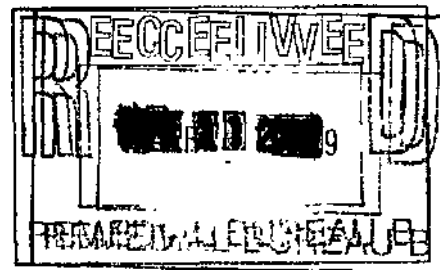
Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the Fourth Quarter of 2008. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order. The report also summarizes the remedial activities for the calendar year of 2008.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

A handwritten signature in black ink, appearing to read 'M*IM (Wr- JRL', is written over a horizontal line.

Matthew Lapp
Project Engineer



cc: Mr. John Grathwol - NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
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PILEONEDOC'S	YES	NO
SITE NAME		
SITE#		
COUNTY	TOWN	
FOILABLE	VES	NO
SC/PSA	RI/FS	
RD	RA	
SM	OTHER	
NAME DESCRIPTION:		

Final
BYRON BARREL & DRUM SITE
QUARTERLY/ANNUAL REPORT
FOURTH QUARTER 2008

Byron Barrel & Drum Site
Area 2
Byron, New York

March 31, 2009

Prepared for:
BYRON BARREL & DRUM PRP GROUP

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1.0—INTRODUCTION

This report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the Fourth Quarter 2008. The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted by ECOR Solutions, Inc (ECOR) during the Fourth Quarter of 2008, as well as, an annual summary for the calendar year 2008. The report also includes an ongoing evaluation of the In-Situ Remediation Technology (ISRT) bio-injection (Injection) performed in September 2007. The evaluation is based on the analytical results of samples collected through December 2008 in addition to routine quarterly samples. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

U SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984). A Site plan is provided as **Figure 1**.

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The remedial action construction was performed during the summer of 2001. The implementation of the remedial design included excavation and characterization of potentially impacted soil, and installation of additional two groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

1.2__CHRONOLOGY OF EVENTS

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	Date	Notes
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11,2001	
RA Construction	June 11-July 15,2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19, 2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous O & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17,2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12, 2007	
In-Situ Bioremediation Injection Event	September 18-20,2007	
Preliminary Injection monitoring samples collected in addition to groundwater VOC samples	December 19-21,2007	

-Injection monitoring samples collected in-- addition to groundwater VOC samples	March 26, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	June 18, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	September 25, 2008	
Injection monitoring samples collected in addition to groundwater VOC samples	December 11, 2008	
Phase II In-Situ Bioremediation Workplan submitted to NYSDEC for approval	December 23, 2008	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (Fourth Quarter 2008), no significant activities occurred relative to the remedial design.

3.0—OPERATION OF GROUNDWATER TREATMENT SYSTEM

During routine operation, groundwater recovered from the three pumping wells (PW-1, PW-2, and PW-3) is treated through one bag filter and an air stripper prior to discharge. The bag filter removes suspended solids greater than 50 microns in diameter. The low-profile air stripper removes the VOCs from the groundwater. Following air stripping, the groundwater is discharged to surface water.

Figure 1 illustrates the PW locations and the Groundwater Treatment System (GWTS). A Flow Diagram of the GWTS equipment and process piping is presented in **Figure 2**.

3.1 CURRENT SYSTEM STATUS

The GWTS was temporarily shut down on September 12, 2007 to allow for the In-Situ Remediation Technology (ISRT injection) to be carried out. The system will remain shut down awaiting the results and evaluation of the injection. An evaluation is presented in Section 4.4.

3.2 SYSTEM OPERATIONS AND MONITORING HISTORY THROUGH FOURTH QUARTER 2008

A total of 20.5 million gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19.7 million gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

3.3 MONITORING HISTORY THROUGH FOURTH QUARTER 2008

Tables 1 and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4**. This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on December 11, 2008 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23, 2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B and pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table 3**. A summary of Site groundwater elevations is provided in **Table 4**. A copy of field notes collected during the sampling event is included in **Appendix A**. The preserved groundwater samples were collected and analyzed by Test America Laboratories, Inc, Buffalo, New York.

4.2 LABORATORY ANALYSIS / GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5**. The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, and MW-10B) were analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2 and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCl, TCA, TCE, toluene, VC and cis-1,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 55 micrograms per liter (ug/L) (1,1-DCA at monitoring well MW-1). Currently, only 1,1-DCA and TCA is present above the applicable clean up standards at the Site. A more comprehensive evaluation of these results is presented in **Section 5.1**.

-The-groundwater cleanup standards are summarized-below:

Chemical	Groundwater Cleanup Level
1,1-Dichloroethane	5
1,1 -Dichloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

4.3 DATA VALIDATION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B**.

4.4 ISRT EVALUATION

ECOR prepared and submitted an in-situ bioremediation applicability study to the PRP group for review. The PRP Group requested an independent assessment of the data and recommendation prior to implementation. The independent assessment was completed during June 2006. The findings indicate that an in-situ remediation technology known as Enhanced Reductive Dechlorination (ERD), may be effective at carrying out final remediation at the Site. Once approved by the EPA, ECOR performed the Injection on September 18-20, 2007, that consisted of metering the carbon amendment from totes and pails containing the Newman's Zone, mixed with potable water and injection down each well as a dilute solution. The Newman's Zone amendment is a concentrated source of electron donors, with an electron equivalent dose for the lactate, soybean oil, and food grade additives over 175 electron equivalents per kilogram.

The sequence of injection is summarized below

Injection Well	Date	Emulsion + Water (gallons)	Average Injection Rate (gpm)
MW-10B	18-Sep	340	
	19-Sep	1,614	
	Total	1,954	2.8
PW-2	18-Sep	237	
	19-Sep	1,230	
	20-Sep	836	
	Total	2,303	1.9
PW-1	19-Sep	565	
	20-Sep	1,260	
	Total	1,825	2.3
total emulsion + water (gallons) =6,082			
total weight of emulsion (lbs) =5,349			
total gals of emulsion =654			

Several parameters are sampled as part of the program to monitor progress of the Injection, including Iron (Total and Dissolved), Manganese (Total and Dissolved), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Chloride, Nitrate-Nitrite, Sulfate and Sulfide, Total Kjeldahl Nitrogen (TKN), Total Organic Carbon (TOC), Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide. **Table 3** provides a summary of the field parameters measured during the December 2007 Quarterly Sampling Event. Analytical data is presented in **Appendix E**.

Since the initial injection conducted in September 2007, five rounds (December 21, 2007, March 26, June 18, September 25, and December 11, 2008) of post-injection groundwater samples have been collected from most wells. Additionally, two BioTraps were installed at the Site to evaluate changes in the indigenous and enhanced biological populations in groundwater. As with the 2006 BioTrap employment, these were installed in MW-1 (downgradient) and MW-10B (upgradient) of the primary area of groundwater impacted with VOCs. The BioTraps were installed on April 10, and removed on June 18, 2008, approximately 61-days after installation. Data from the 2006 BioTrap samplers demonstrated methanotrophs were detected at relatively high numbers ($7 \times 10^{+6}$ and $1 \times 10^{+7}$ cells/bead). The results of the 2008 BioTrap sampling indicates less biological activity in terms of general population counts, however, the important and effective dechlorinating *dehalobacter* and *desuljitobacterium*

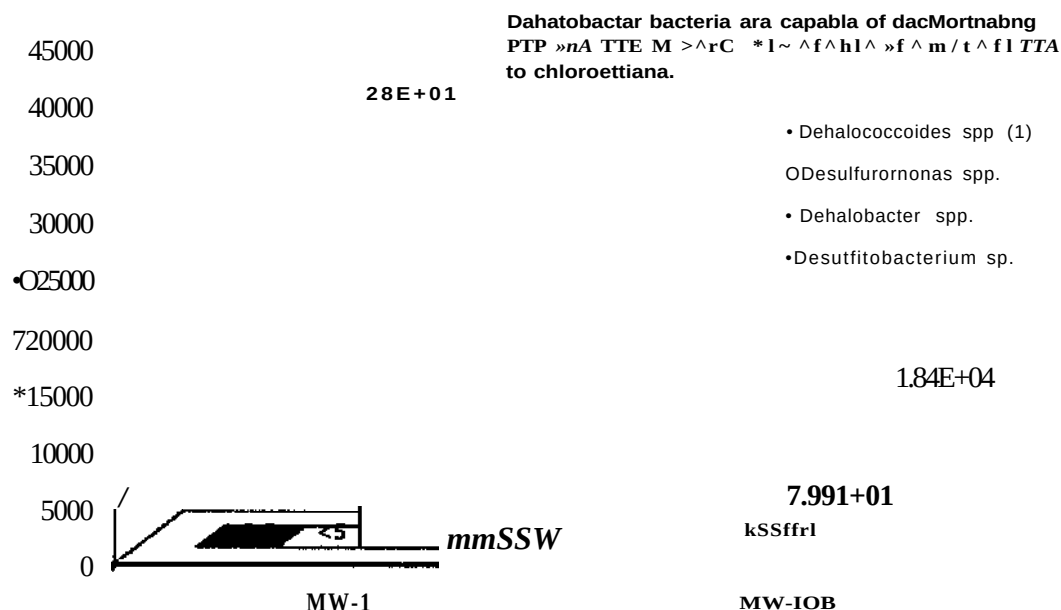
populations remain at moderate levels in groundwater (Appendix E). In terms of dissolved gasses indicative of ERDT methane was the primary compound detected in 2008, and no ethane or ethene was detected. Data generated from the 2008 BioTrap samplers confirmed that methanotrophs were detected at relatively high numbers, where methanotrophs are ubiquitous aerobic microorganisms that require methane as their sole source of carbon. The enzyme that initially oxidizes methane also oxidizes 1,1,1-TCA, 1,1-DCA, 1,1-DCE, TCE and other chlorinated VOCs. These microorganisms will degrade these compounds cometabolically under aerobic conditions in the presence of methane without the production of the lesser chlorinated daughter products (e.g. 1,1-DCA, chloroethane). These data indicate that methanotrophic degradation is still a major natural attenuation process at the Site. A summary of the dissolved gas monitoring in 2008 is provided in the table below.

Location	Date	Ethane	Ethene (Mgfl)	Methane (tig/1)	Carbon Dioxide (m³/i)
MW-1	3/26/08	ND	ND	140	270,000
MW-1	6/18/08	ND	ND	ND	74,000
MW-1	9/25/08	ND	ND	15	21,000
MW-1	12/11/08	ND	ND	85	46,000
MW-4	3/26/08	ND	ND	140	470,000
MW-4	6/18/08	ND	ND	2	85,000
MW-4	9/25/08	ND	ND	39	79,000
MW-4	12/11/08	ND	ND	210	20,200
MW-10B	3/26/08	ND	ND	ND	NA
MW-10B	6/18/08	ND	ND	41	30,000
MW-10B	9/25/08	ND	ND	1,000	47,000
MW-10B	12/11/08	ND	ND	3,100	62,800
PW-1	3/26/08	ND	ND	600	490,000
PW-1	6/18/08	ND	ND	920	220,000
PW-1	9/25/08	ND	ND	3,300	130,000
PW-1	12/11/08	ND	ND	4,500	236,000
PW-2	3/26/08	ND	ND	480	350,000
PW-2	6/18/08	ND	ND	3,400	180,000
PW-2	9/25/08	ND	ND	10,000	120,000
PW-2	12/11/08	ND	ND	10,000	319,000

ND = not detected at or above MDL

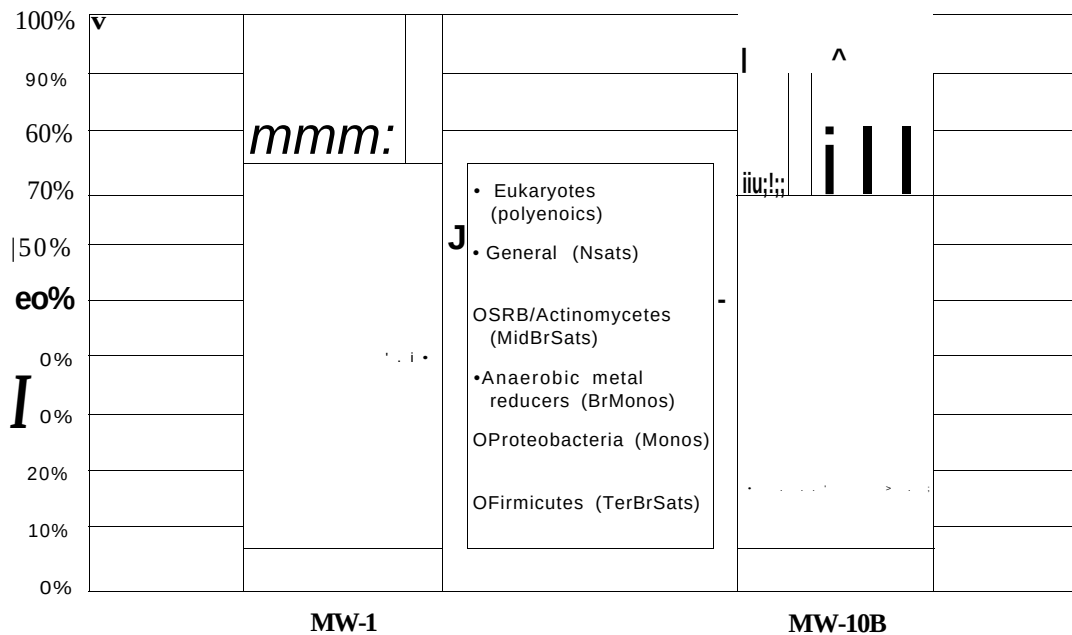
As noted in the chart below, similar biological populations exist in both the upgradient and downgradient locations.

Dechlorinating Bacteria from BloTraps (3un-08)



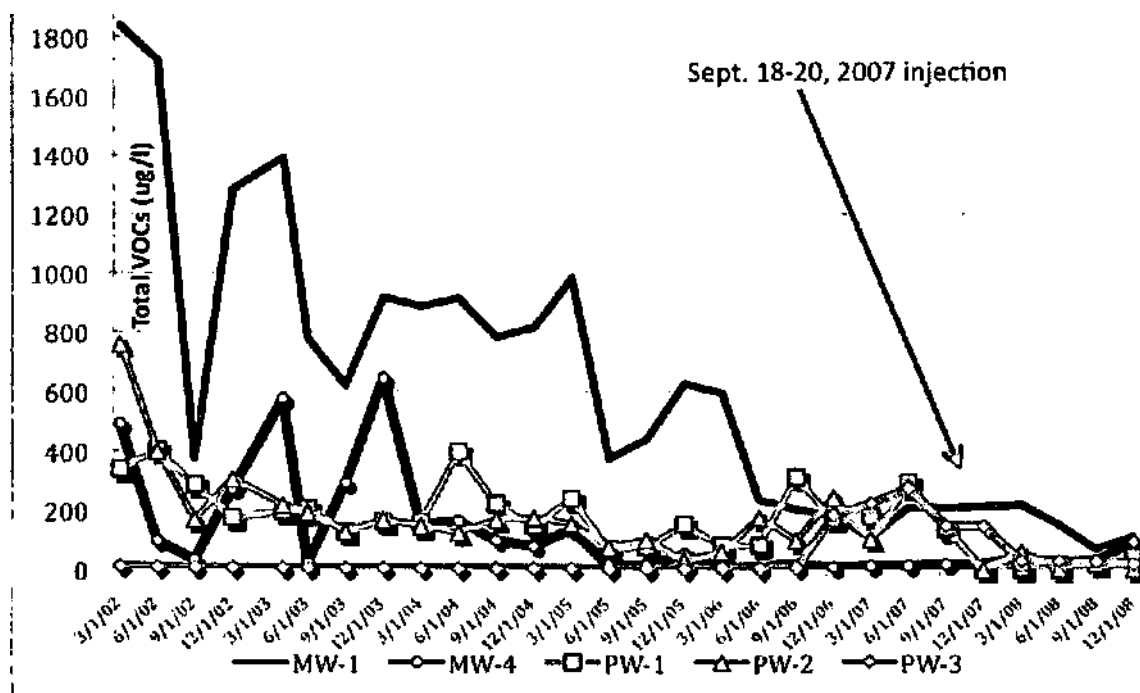
The *desutfitobacterium* genus has become recognized as one of the two most important groups of anaerobic dehalogenating bacteria. Members of this genus dechlorinate both aromatic and alkyl chlorinated compounds including chlorinated ethenes and other widely used solvents (Joint Genome Institute, 2008). The bacteria strain *dehalobacter restrictus* performs anaerobic respiration using tetrachloroethene and other chlorinated ethenes in a process called dehalorespiration. *Dehalobacter restrictus* respire by oxidization of dihydrogen, using it as an electron donor, and reductive dechlorination of tetrachloroethene (PCE) using it as an electron acceptor. The reductive dechlorination pathway for chloroethenes starts with either PCE or TCE, then with successive loss of chlorine to cDCE, then to VC, then to ethene.

In-Situ PFLA Community Structure - June 2008



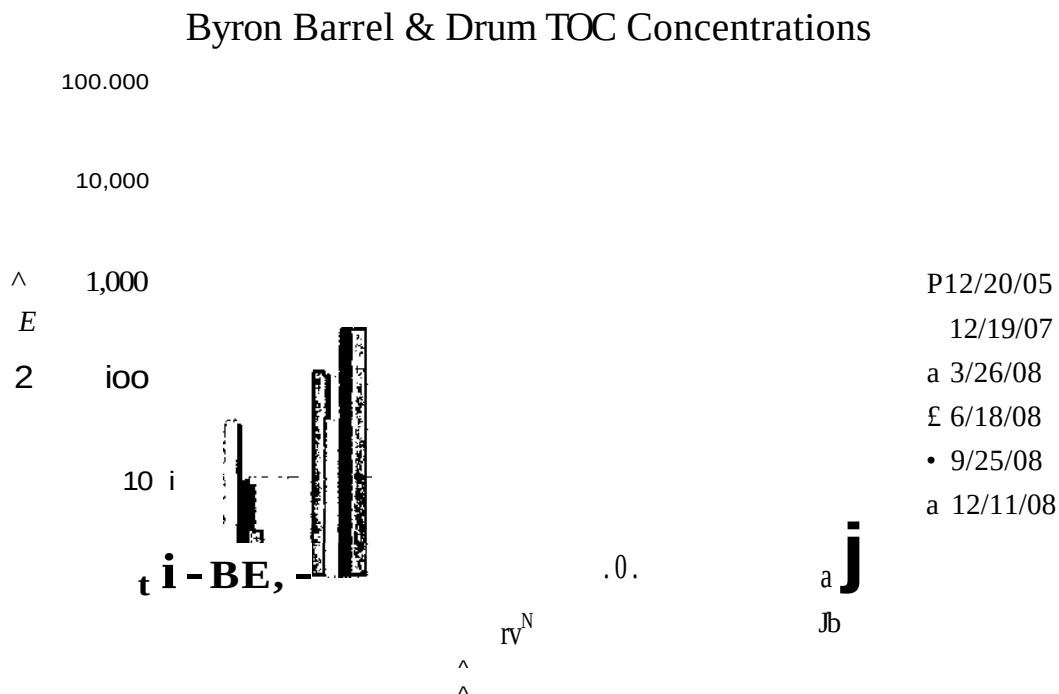
The results of the recent groundwater quality sampling have also been promising, with an 83% VOC reduction at PW-3, an 89% reduction at PW-1, and a 67% reduction at MW-1 as compared to pre-injection conditions. A summary of Total VOC (TVOC) trends in select monitoring wells is presented in the chart below.

Byron Barrel TVOC Groundwater Concentrations -



Several parameters are sampled as part of the ERD program to monitor progress of the pilot test, including Iron (Total and Dissolved), Manganese (Total and Dissolved), BOD, COD, Chloride, Nitrate-Nitrite, Sulfate and Sulfide, TKN, TOC, Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide. For example, TOC is monitored in the groundwater environment to determine if anaerobic metabolism of VOCs is possible through the addition of a hydrocarbon substrate. ORP is monitored to confirm the prevailing groundwater environment (aerobic and oxidizing vs. anaerobic and reducing). Alkalinity is analyzed as an indicator of the aquifer's ability to buffer against variations in pH, and as an additional indicator of enhanced microbial activity. The pH is monitored to keep the groundwater in optimal range for reductive dechlorination as some bacterial populations are sensitive to low pH conditions (e.g., *Dehalococcoides*). The presence of reduced electron acceptors provides another measure of the primary microbial respiration processes controlling the groundwater environment. The presence and relative concentrations of VOC degradation end-products provides confirmation that the ERD process is being driven to completion. Dissolved gasses (methane/ethane/ethene) are monitored as they measure breakdown of the VOCs in a strongly reducing (methanogenic) environment, particularly around the injection wells. Chloride is monitored as a relative indicator that VOCs have been destroyed, leaving innocuous end-products. This performance monitoring is a critical portion of the in-situ ERD pilot test.

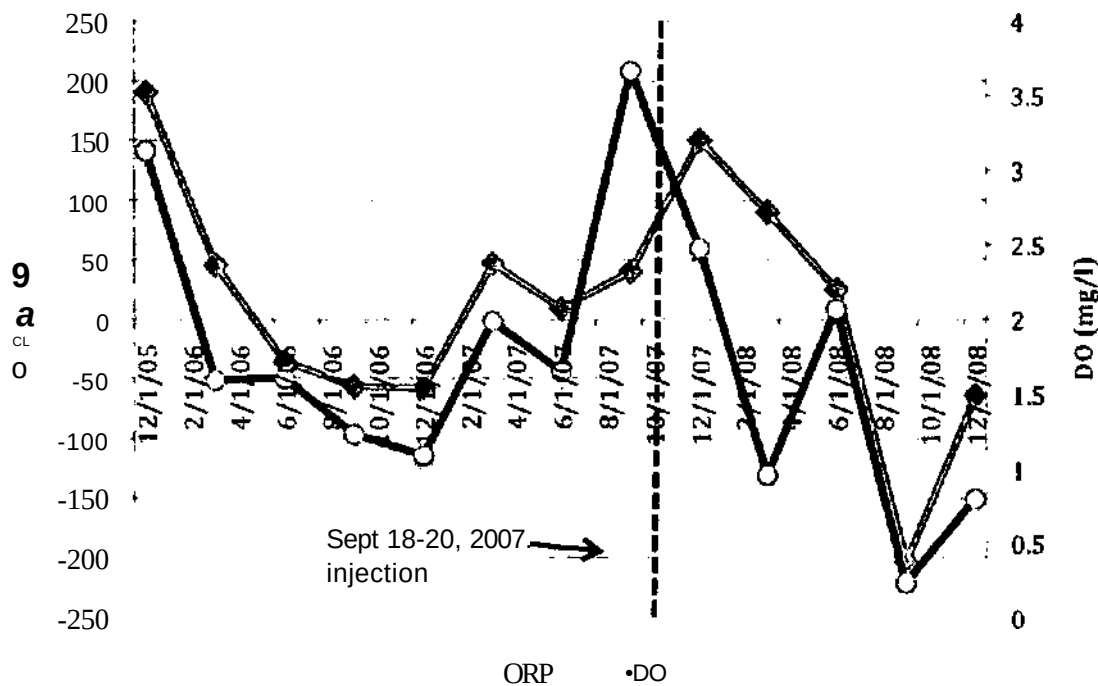
Monitoring TOC occurred during each quarter in 2008. After the initial injection in September 2007, and ERD zone began to develop, which continued to expand during the First Quarter 2008, as noted on **Figure 13**, which depicts the highest TOC levels in groundwater centered near and extending east of PW-1.



Throughout 2008 the distribution of the TOC was monitored extending away from the injection points (MW-10B, PW-1, PW-2), as shown on **Figure 14** (Second Quarter 2008), **Figure 15** (Third Quarter 2008) and finally **Figure 16** (Fourth Quarter 2008). The TOC in groundwater is an indicator of the available food source, which has decreased over time near the injection wells, as shown in the chart above (note logarithmic scale). The highest TOC concentrations were detected in December 2007, shortly after the initial injection.

Monitoring of field parameters for DO and ORP also indicates the extent of the anaerobic conditions in the monitoring network. In general, the objective is to reduce the available DO, and maintain ORP levels in the range of -150 to -200 mV, a good example is monitoring well MW-4, as shown in the chart below.

Byron Barrel & Drum MW-4 DO & ORP-Monitoring



The data for the First Quarter 2008 DO concentrations in groundwater is provided on **Figure 17**, which shows good DO reductions near and downgradient of MW-10B, and a zone of higher DO levels near PW-3. By the Second Quarter 2008, the DO measured in groundwater less than 1 mg/l expanded downgradient of MW-10B to encompass the PW-3 and PW-2 areas, as depicted on **Figure 18**. Between the Second and Third Quarters groundwater recharge introduced oxygen to the shallow groundwater system, and the zone of DO less than 1 mg/l reduced markedly and shifted to the area adjacent to MW-4, as shown on **Figure 19**, DO concentrations in groundwater for the Third Quarter 2008. By the Fourth Quarter 2008, the DO continued to increase at MW-1 (an undesired affect in the ERD program), increasing to 3.5 mg/l, with an envelope surrounding this zone of DO greater than 2 mg/l at wells PW-1 and PW-2, as shown on **Figure 20**. The charts monitoring DO and ORP are included in **Appendix F**.

To evaluate the objective of driving the groundwater system anaerobically at MW-1, the ORP levels are plotted on **Figure 21** through **Figure 24** for the First Quarter 2008 through Fourth Quarter 2008, for field measurements conducted across the monitoring well network. In practical terms, ORP is the measurement to oxidize constituents in water. As these figures depict, by the Third Quarter 2008, the ORP dropped to -129 mV as a large ERD zone setup across the injection area. By the Fourth Quarter 2008, the ORP levels at MW-1 increased to -43 mV (**Figure 24**), again an undesired effect and an

second-injection-will-be necessary to expand the anaerobic-conditions-downgradient-to-MW-1. -The charts monitoring DO and ORP are included in **Appendix F**.

The data from the field measurements and analytical laboratory data support the establishment of the ERD, and an additional evaluation is to view the overlap of the groundwater areas impacted by VOCs above the NYSDEC GQS with the TOC distribution, which is shown on **Figure 25**. This figure shows good distribution of TOC across this area, except for the areas immediately around MW-1 and on the western margin at PW-3. From this point on, the primary objective of the ERD program would be to increase the TOC concentrations in this area and maintain low DO levels (less than 0.5 mg/l) and depressed ORP levels (less than -150 mV). In general, the 2008 monitoring program reveals the following:

- MW-1 - DO remains elevated, and the ORP needs to be lowered with the addition of TOC upgradient of this well;
- MW-4 - good tracking of the DO and ORP since the Phase I injection;
- MW-1 OB - good initial reduction in ORP and DO, however, DO has rebounded with the reduction in TOC concentrations;
- PW-1 - good initial decrease in DO\ORP since December 2007. ORP\DO have rebounded too high for sustained ERD in this is area without an infusion of a carbon source; and,
- PW-2 - good initial and sustained drop in DO and ORP in response to the Phase I injection.

Across this area the 1,1,1-TCA concentration trend continues to decrease, leveling out at a concentration of ~50 u,g/L after the Phase I injection (Table 5). Coincident with this reduction in VOCs is the generation of chloride, an indicator of reductive dechlorination, initially spiking in early-2008, followed by a gradual decrease in chloride concentrations, as shown in the chart below.

Sept. 18-20, 2007 injection

VOCs (µg/l)

MBL (mg/L)

111TCA - EUDCA • Chloride

Date	111TCA (µg/l)	EUDCA (µg/l)	Chloride (µg/l)	MBL (mg/L)
05/05	840	800	30	0.5
06/06	750	700	20	0.5
07/07	600	550	10	0.5
08/08	450	400	10	0.5
09/09	400	350	10	0.5
10/10	350	300	10	0.5
11/11	300	250	10	0.5
12/12	250	200	10	0.5
01/01	200	150	10	0.5
02/02	150	100	10	0.5
03/03	100	50	10	0.5
04/04	50	20	10	0.5
05/05	20	10	10	0.5
06/06	10	5	10	0.5
07/07	5	2	10	0.5
08/08	2	1	10	0.5
09/09	1	0.5	10	0.5
10/10	0.5	0.2	10	0.5
11/11	0.2	0.1	10	0.5
12/12	0.1	0.05	10	0.5
01/01	0.05	0.02	10	0.5
02/02	0.02	0.01	10	0.5
03/03	0.01	0.005	10	0.5
04/04	0.005	0.002	10	0.5
05/05	0.002	0.001	10	0.5
06/06	0.001	0.0005	10	0.5
07/07	0.0005	0.0002	10	0.5
08/08	0.0002	0.0001	10	0.5
09/09	0.0001	0.00005	10	0.5
10/10	0.00005	0.00002	10	0.5
11/11	0.00002	0.00001	10	0.5
12/12	0.00001	0.000005	10	0.5
01/01	0.000005	0.000002	10	0.5
02/02	0.000002	0.000001	10	0.5
03/03	0.000001	0.0000005	10	0.5
04/04	0.0000005	0.0000002	10	0.5
05/05	0.0000002	0.0000001	10	0.5
06/06	0.0000001	0.00000005	10	0.5
07/07	0.00000005	0.00000002	10	0.5
08/08	0.00000002	0.00000001	10	0.5
09/09	0.00000001	0.000000005	10	0.5
10/10	0.000000005	0.000000002	10	0.5
11/11	0.000000002	0.000000001	10	0.5
12/12	0.000000001	0.0000000005	10	0.5
01/01	0.0000000005	0.0000000002	10	0.5
02/02	0.0000000002	0.0000000001	10	0.5
03/03	0.0000000001	0.00000000005	10	0.5
04/04	0.00000000005	0.00000000002	10	0.5
05/05	0.00000000002	0.00000000001	10	0.5
06/06	0.00000000001	0.000000000005	10	0.5
07/07	0.000000000005	0.000000000002	10	0.5
08/08	0.000000000002	0.000000000001	10	0.5
09/09	0.000000000001	0.0000000000005	10	0.5
10/10	0.0000000000005	0.0000000000002	10	0.5
11/11	0.0000000000002	0.0000000000001	10	0.5
12/12	0.0000000000001	0.00000000000005	10	0.5
01/01	0.00000000000005	0.00000000000002	10	0.5
02/02	0.00000000000002	0.00000000000001	10	0.5
03/03	0.00000000000001	0.000000000000005	10	0.5
04/04	0.000000000000005	0.000000000000002	10	0.5
05/05	0.00000000			

5.0 ANNUAL PROJECT SUMMARY

Groundwater potentiometric levels were collected concurrent with water quality samples on March 26, June 18, September 25, and on December 11, 2008. With the cessation of pumping in September 2007, the water levels across the Site have rebounded to static conditions, with low vertical and horizontal hydraulic gradients. Groundwater levels started rebounding in PW-2 and PW-3 in the fall-2006, with progressively less groundwater extraction throughout 2007. Due to pipe clogging problems in early-2007 groundwater extraction occurred at only 1 well, PW-2, but on January 24, 2007, the pumping wells were changed from PW-2 to PW-1, which served as the primary groundwater extraction well for the remainder of 2007. As the groundwater extraction volume progressively decreased in PW-1 the water levels increased to essentially the static conditions seen at the other wells, as shown in the site-wide hydrograph below.

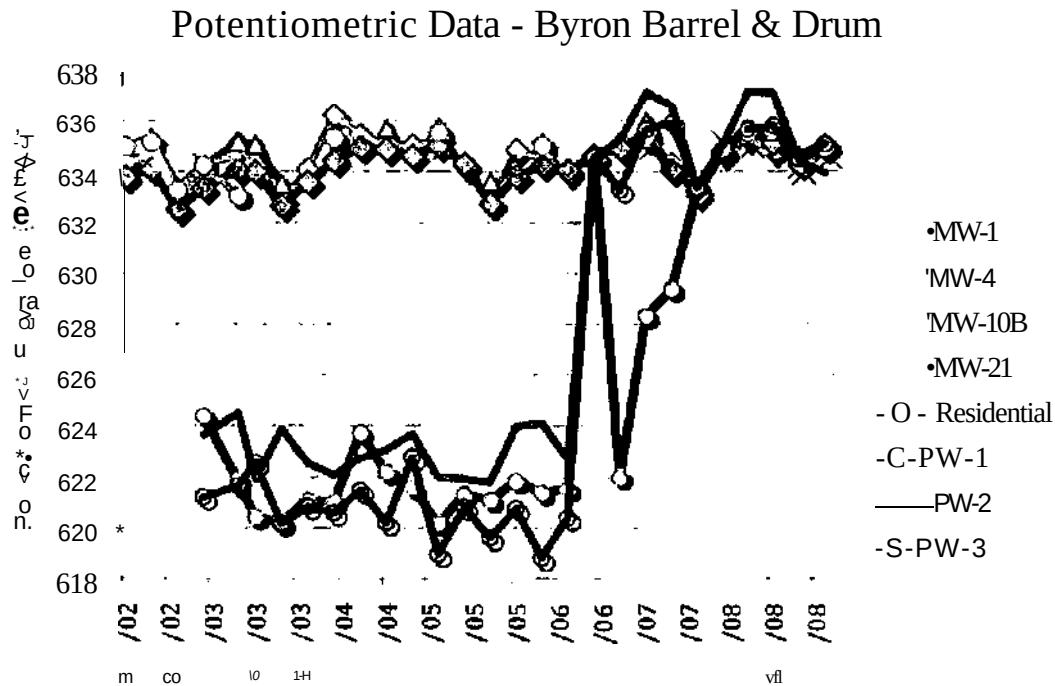


Figure 5 provides the water level data collected on March 26, 2008. As the potentiometric data shows, the groundwater flowpaths are consistent with historical trends with flow to the northeast and a very low horizontal hydraulic gradient (0.0009). The Second Quarter 2008 potentiometric elevation contour map is provided on **Figure 6**, from data collected on June 18, 2008. This groundwater monitoring event depicts a steepening of the hydraulic gradient (0.003), with groundwater flow in a more northerly groundwater flow direction. On September 25, 2008, the Third Quarter 2008 groundwater monitoring event supplied the data for **Figure 7**, which shows groundwater flow northeast across the Site consistent with historical patterns, and the highest hydraulic gradient measured in 2008 (0.002). The potentiometric data depicted on **Figure 8**, measured on December 11, 2008, shows an abnormally low area at PW-2 (non-pumping conditions), but the groundwater flow toward the northeast is more pronounced than earlier measurements in 2007 or 2008. Additionally, the horizontal hydraulic gradient, (disregarding the PW-2 measurement), was the lowest measured in 2008 (0.0004). A summary of 2008 potentiometric levels are provided below, as well as on **Table 5**.

Summary Table of 2008-Potentiometric-Levels

Date	MW-1	MW-4	MW-10B	MW-21	Residential	PW-1	PW-2	FW-3
3/2^08	635.30	635.57	635.69	635.18	635.53	635.71	637.15	635.63
6A8/D8	634.80	635.08	635.53		—	635.63	637.10	635.78
9/25/D8	634.38	634.27	634.63	634.13	634.44	634.48	634.42	634.49
iyil/08	634.93	634.95	635.10	634.74	634.95	634.91	633.95	635.07

Elevations in ft AMSL

5.1 GROUNDWATER QUALITY SAMPLING

The 2008 groundwater sampling program was completed pursuant to the July 2002 QAPP. The first quarterly groundwater sampling event was conducted on March 26, 2008, and included wells MW-1, MW-4, MW-10B, MW-21, the Residential monitoring well, PW-1, PW-2, and PW-3. The second quarterly groundwater sampling event was conducted June 18, 2008, and included wells MW-1, MW-4, MW-10B, PW-1, PW-2, and PW-3. The third quarterly groundwater sampling event was conducted September 25, 2008, and included wells MW-1, MW-4, MW-1 OB, PW-1, PW-2, and PW-3. The fourth quarterly groundwater sampling event was conducted December 11, 2008, and included wells MW-1, MW-4, MW-10B, MW-21, PW-1, PW-2, and PW-3.

Groundwater monitoring well samples were collected during each sampling event for VOC analysis in accordance with EPA SW-846 Method 8260B, analyzed for the following twenty (20) project specific compounds: 1,1-DCA, 1,1-DCE, cDCE, methylene chloride (MEC), toluene, 1,1,1-TCA, TCE, vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), Tetrachloroethene (PCE), chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MEC, 1,1,1-TCA, TCE, toluene, VC and cDCE.

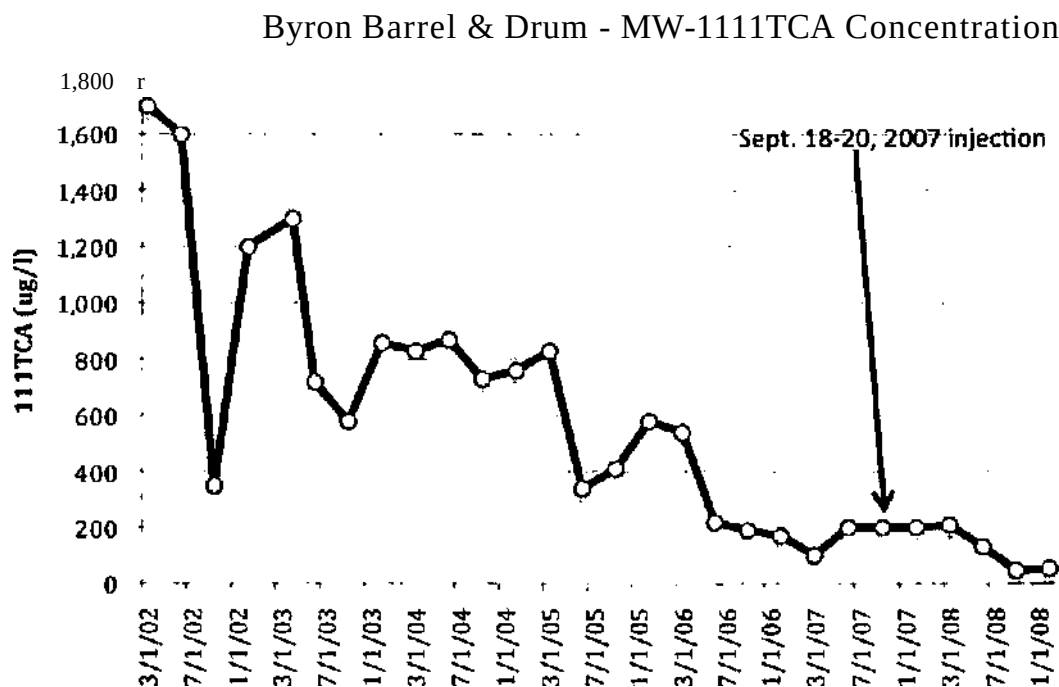
As part of the monitoring of the ERD bioremediation program, additional groundwater monitoring was conducted in 2008 including total and dissolved Iron, total and dissolved Manganese (EPA Test Method 6010), BOD (method 405.1), COD (method 410.4), Chloride (method 9056), Nitrate-Nitrite (method 300), Sulfate and Sulfide (method 9056), TKN (method 300), TOC (method 9060), Total Phosphorous (method 365.2), Ethane, Ethene, Methane (method AM20GAX) and Carbon Dioxide (method RSK1 14). In addition to these laboratory analytical methods, field parameters were also collected including Temperature (°C), ORP (mV), pH (SU), DO (mg/L), and Specific Conductivity (umhos/cm).

A review of the historic water quality data indicates that the primary VOCs of concern detected at the Site have been 1,1,1-TCA, and degradation products 1,1-DCA and 1,1-DCE. In 2008, these two compounds, and one occurrence of TCE, were the only VOCs to exceed the NYSDEC groundwater cleanup standards. The NYSDEC Groundwater Quality Standards (GQS) for the VOCs of concern are each 5 ug/L for 1,1-DCA, 1,1-DCE, MEC, 1,1,1-TCA, toluene and TCE, and 2 ug/L for VC. The concentrations of these VOCs in 2008 range from non-detect to 210 micrograms per liter (jig/L).

Data from the First Quarter 2008 groundwater sampling event primarily detected 1,1,1 -TCA and 1,1-DCA, with one detection of TCE and 1,1-DCE. There were no VOCs detected at or above the laboratory method detection limit (MDL) at PW-1, MW-21, and the Residential well. 1,1,1 -TCA was detected above the NYSDEC GQS for each of the other monitoring wells, with a concentration of 8 ug/L at MW-10B, 24 ug/L at PW-3, 31 ug/L at MW-4, 30 (ig/L at PW-2, and 210 ug/L at MW-1. The 210 ug/L of 1,1,1-TCA at MW-1 was the highest detection of any VOC in 2008. 1,1-DCA was detected at MW-1 at a concentration of 8 J Ug/L, at PW-3 at a concentration of 0.9 J Ug/L, and at MW-1 at a concentration of 7 J ug/L. TCE was detected at MW-4 at a concentration of 2 J ug/L, and 1,1-DCE was detected at MW-1 at 3 J ug/L. Figure 9 provides the groundwater quality map data for the sampling event conducted March 26, 2008, which depicts the VOC mass center at monitoring well MW-1. Analytical concentrations in this report noted with a J flag represent estimated values, generally indicating the presence of the compound which meets the identification criteria, but the result is less than the sample quantitation limit, but greater than zero.

The Second Quarter 2008 groundwater sampling event monitored six (6) wells, MW-1, MW-4, MW-10B, PW-1, PW-2, and PW-3. 1,1,1-TCA was detected at MW-1 at a concentration of 130 ug/L, at MW-4 with a concentration of 16 ug/L, at PW-1 with a concentration of 7 Ug/L, at PW-3 with a concentration of 24 ug/L, and at MW-10B at a concentration of 5 ug/L. 1,1-DCA was detected at MW-1 with a concentration of 19 Ug/L, at PW-1 with a concentration of 7 ug/L, at PW-3 with a concentration of 0.9 J ug/L, at MW-10B at a concentration of 0.4 J Ug/L, and at MW-4 at a concentration of 4 J ug/L. TCE was detected at 1 J ug/L at MW-1 and MW-4, respectively, and 1,1-DCE was detected at 3 (ig/L at MW-1. Figure 10 provides the groundwater quality map for the sampling event conducted June 18, 2008, which also depicts the primary area of impacted groundwater centered at MW-1.

The Third-Quarter-2008 groundwater sampling event monitored six (6) wells, MW-1, MW-4, MW-1 OB, PW-1, PW-2, and PW-3. 1,1,1-TCA was detected at MW-1 with a concentration of 47 (ig/L, at MW-4 with a concentration of 15 Ug/L, at MW-1 OB with a concentration of 1 J ug/L, at PW-1 with a concentration of 3 ug/L, and at PW-3 at a concentration of 22 Jig/L. 1,1,1-TCA was not detected in groundwater at or above the MDL at well PW-2. 1,1-DCA was detected at MW-1 with a concentration of 20 ug/L, at MW-4 at a concentration of 11 ug/L, at PW-I with a concentration of 12 (ig/L, and at PW-2 with a concentration of 14 ug/L. 1,1-DCE was detected at MW-1 at a concentration of 1 J ug/L. TCE was detected at MW-1 at 1 J ug/L, at MW-4 at 2 J ug/L, at PW-2 at a concentration of 0.7 J ug/L, and at PW-1 at 0.6 J ug/L. Figure 11 provides the groundwater quality map for the sampling event conducted September 25, 2008, which indicates a marked decrease in TVOC concentrations in groundwater from earlier sampling events. This trend is evident in the 1,1,1-TCA isoconcentration graph provided below.



The Fourth Quarter 2008 groundwater sampling event monitored seven (7) wells, MW-1, MW-4, MW-10B, the Residential well, PW-1, PW-2, and PW-3. 1,1,1-TCA was detected at MW-1 with a

concentration-of-54 -pg/Lrat-MW-4 with a concentration-of-49 ug/Lrat-PW-3-aHt-concentrationof-14 Ug/L, at PW-1 at a concentration of 2 J pg/L, and at MW-10B at a concentration of 2 J pg/L. 1,1,1-TCA was not detected in groundwater at or above the MDL at well PW-2. 1,1-DCA was detected at MW-1 at a concentration of 55 ug/L, at MW-4 at a concentration of 37 pg/L, at PW-1 at a concentration of 32 p-g/L, and at MW-10B at a concentration of 0.8 J pg/L. TCE was detected at MW-4 at a concentration of 5 J pg/L, at MW-1 at a concentration of 2 J pg/L, and at PW-1 at a concentration of 1 J pg/L. There were no VOCs detected at the residential well at or above the laboratory MDL. **Figure 12** provides the groundwater quality map for the sampling event conducted December 11, 2008. Again in this sampling event, the primary area of impacted groundwater centers at MW-1 and MW-4, with a significant reduction in VOC concentrations from the Fourth Quarter of 2007. By the Fourth Quarter 2008, 1,1,1-TCA, 1,1-DCA and TCE are present above the applicable GQSS. In 2008, the 1,1,1-TCA groundwater standard of 5 p.g/L was exceeded at MW-1, MW-4, MW-10B, PW-1, PW-2 and PW-3. The 1,1-DCA groundwater standard of 5 ug/L was exceeded at MW-1, MW-4, PW-1, PW-2, and PW-3. The TCE groundwater standard of 5 ug/L was exceeded at MW-4. A summary of the historical water quality data is provided on **Table 5**, and **Appendix D** provides well isoconcentration graphs

5.2 TREND ANALYSIS OF GROUNDWATER CONCENTRATIONS

A trend analysis of groundwater concentrations presented as natural log [ln] of the concentration over time reduces concentration variations and provides easier trend determination. It should be noted that the slope of a linear trend line was used to provide a uniform assessment of trends in total VOC concentrations. Visual inspection of these graphs reveals that, although the slope may indicate an increasing or decreasing trend, the actual fluctuation of analyte concentrations over time may show that an overall increasing or decreasing trend cannot be correctly applied to the VOC in question. The use of a linear trend line represents one of many approaches that can be used to determine trends in concentrations. To analyze the validity of the trend line, taking the fluctuations in data into account, the R^2 value was calculated for each linear model. R^2 is a unit-less fraction between 0 and 1 that quantifies the accuracy of fit of the data set to the linear trend line. A high R^2 value (close to 1) indicates a more accurate trend line, while a low value (close to zero) is a sign that the model may not be an accurate representation of the quarterly data. If groundwater concentrations continue to decrease over time, the trend analysis will indicate a higher level of reliability of the decreasing data (e.g. an R^2 value greater than 0.9).

Trend analyses for total VOC concentrations are presented in **Figures 27** through 31 for select monitoring wells (MW-1 and MW-4) and pumping wells (PW-1, PW-2, and PW-3). Initial TVOC concentration fluctuations, the TVOC levels at monitoring well MW-1 (a downgradient well) are stabilizing with a slight decreasing trend. A high R^2 value of 0.785 indicates an accurate trend line. Concentrations of TVOCs at monitoring well MW-4 (also a downgradient well) are demonstrating an overall decreasing trend (2004-2006), but TVOC concentration variations are still observed. Prior to 2004, significant fluctuations in TVOC concentrations were observed. In the past year VOC concentrations are showing a slight increasing trend which has lowered the R^2 value. A value of 0.388 indicates a fairly inaccurate trend line. Monitoring well MW-10B (an upgradient well) is sampled semi-annually, and a TVOC concentration trend is not apparent at this time but appears to be decreasing. MW-21 (an upgradient well) is only sampled once per year and concentrations of VOCs have consistently been non detect.

Pumping wells PW-1 and PW-2 have mid range calculated R^2 values (0.418 and 0.459 respectively). TVOC concentrations have fluctuated over time at pumping well PW-1, and a trend is not apparent from the data set. Pumping well PW-2 demonstrates a slightly more predictable TVOC trend. TVOC concentrations at pumping well PW-3 show an overall decrease followed by a slight increase in 2007 most likely due to the inactivity of this pumping well.

5.3 STATISTICAL EVALUATION OF GROUNDWATER TRENDS

The VOC concentration trends over time for the last 10 sampling events were evaluated using the Mann-Kendall statistical test (**Appendix C**). The Mann-Kendall test is a non-parametric test that can be used to assess concentrations exhibiting either increasing or decreasing trends over time to a specified level of confidence. Unlike the R^2 value in linear regression analysis, this test evaluates "trend" only, not linearity, and is independent of the order-of-magnitude changes in concentration.

The Mann-Kendall test was performed using a modified spreadsheet developed by the State of Wisconsin. The test requires a minimum of four (4) and a maximum often (10) sampling events. This analysis used the data for the most recent 10 sampling events. Values below the detection limits are entered as the detection limit; however, in order to prevent "trending of detection limits", all detection limits for a given trend series are entered as a single value. This test was not performed for wells or compounds for which the majority of results were reported below the detection limit. The groundwater monitoring wells were analyzed for the commonly detected compounds 1,1-DC A, 1,1-DCE, MEC, 1,1,1-TCA, TCE, and TVOCs. The pumping wells were analyzed for 1,1-DCA, 1,1-DCE, cDCE, 1,1,1-

-TCA,-TCE, and T-VOCs.—The results are provided as "Increasing,—Decreasing^—or—No-Trend" at an 80% confidence level. The results of this analysis are provided in **Appendix C**, and summarized below.

MW-1 depicts an increasing trend at 80% confidence interval for 1,1 -DCA, and a stable or decreasing trend at 80% confidence level for 1,1-DCE, MEC, 1,1,1-TCA, and TCE.

MW-4 depicts an increasing trend for 1,1,1-TCA and TCE at the 80% confidence interval, an undetermined non-stable trend (coefficient of variation >1) for 1,1-DCA, and a stable or decreasing trend at 80% confidence level for 1,1-DCE and MEC.

MW-10B depicts a stable or decreasing trend at 80% confidence level for 1,1 -DCE, and TCE, and an undetermined non-stable trend (coefficient of variation >1) for 1,1-DCA, MEC, and 1,1,1-TCA.

PW-1 depicts a stable or decreasing trend at 80% confidence level for all compounds.

PW-2 depicts a stable or decreasing trend at 80% confidence level for all compounds.

PW-3 depicts a stable or decreasing trend at 80% confidence level for 1,1-DCA, 1,1-DCE, cDCE, and TCE, an undetermined non-stable trend (coefficient of variation >1) for 1,1,1-TCA.

A summary of the statistical analysis shows generally stable and decreasing trends for VOCs in the recovery wells, stable or decreasing trends for the other compounds in the monitoring wells, and an increasing trend for 1,1-DCA in MW-1, an indicator or ERD in the zone with the highest concentrations of VOCs in groundwater. A table summarizing these trends is presented below. **Appendix C** contains the spreadsheets for each well.

Decreasing Trend (80% CI), all compounds		Stable or Decreasing Trend (80% CI)	Undetermined non- stable trend	Increasing Trend (80% CI)
MW-1	-	1,1-DCE,MEC, 1,1,1-TCA,TCE	~	1,1-DC A
MW-4	—	1,1-DCE,MEC	1,1-DC A	1,1,1-TCA, TCE
MW-10B	~	1,1-DCE,TCE	1,1-DCA,MEC, 1,1,1-TCA	—
PW-1	--	1,1-DCA, 1,1-DCE,cDCE, 1,1,1-TCA, TCE	..	—
PW-2	~	1,1-DCA, 1,1-DCE,cDCE, 1,1,1-TCA, TCE	~	„
PW-3	—	1,1 -DCA, 1,1-DCE,cDCE,TCE	1,1,1-TCA	~

6.0 PLANS FOR NEXT QUARTER

It is recommended the GWTP remain shut-down. This means the GWTP will not be operational in 2009. However, quarterly groundwater sampling will continue to be collected in accordance with the QAPP and described in **Table 6**. The First Quarter 2009 sampling is scheduled for March 30, 2009. At this time the additional post-injection samples will also be collected. The first quarter report should provide additional analysis regarding the progress of the ERD and whether it will be necessary to resume GWTP operation.

Additionally, ECOR has developed and submitted for EPA and NYSDEC review and approval, a Workplan for a Phase II in-situ bioremediation program as a follow-up to the December 22, 2006 In-Situ Bioremediation Workplan and the July 13, 2007, In-Situ Bioremediation Workplan Addendum which supplements the information previously submitted regarding the technical decisions and procedures from Phase I of the injection program and updates that information with monitoring data to support the proposed enhanced reductive dechlorination (ERD) Phase II injection program. Data from samples collected during the first quarter sampling event will be used as a baseline for site conditions prior to the Phase II injection.

TABLES

Table 1
Influent Analytical Results
Groundwater Treatment System
—Byron Barrel and Drum Site—
Byron, NY

Sampling Event Date	01/GW 7/28/2001	02/GW 8/8/2001	03/GW 8/18/2001	04/GW 9/18/2001	05/GW 9/27/2001	06/GW 10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, pg/L	23	47	60	19 J	58 D	43 J
1,1-Dichloroethene, pg/L	5.1	12	16	12 J	16 DJ	50 U
Cis -1,2 - Dichloroethene, pg/L	1.0 J	1.4 J	1.0 J	50 U	50 U	50 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, pg/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, pg/L	1.9 J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, pp/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, pfl/L	499	899	1276	1124	1174	823

Sampling Event Date	07/GW 10/17/2001	08/GW 11/8/2001	09/GW 11/28/2001	10/GW 12/13/2001	11/GW 12/27/2001	12/GW 1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, pg/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, pg/L	13 J	13 J	9.4 J	4.2 J	4.6 J	4.3 J
Cis -1,2- Dichloroethene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1200	580	530	260	220 E	250 E
Trichloroethene, pg/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	1259	635	559	277	237	270

Sampling Event Date	13/GW 1/30/2002	14/GW 2/13/2002	15/GW 2/23/2002	16/GW 3/8/2002	17/GW 3/20/2002	18/GW 4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis - 1,2 - Dichloroethene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	1.8 BJ	10 U
1,1,1 - Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10 U	10 U	3.3 J	5.0 U	5.0 U	10 U
Vinyl Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site-
Byron, NY

Sampling Event Date	19/GW 4/24/2002	20/GW 5/8/2002	21/GW 5/21/2002	22/GW 6/4/2002	23/GW 6/13/2002	24/GW 7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	10	12	20	19J	18D.J	20
1,1-Dichloroethene, ug/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10 U	10U	10 U	25 U	20 U	10 U
Methylene Chloride, ug/L	15 B	10U	3.1 BJ	16J	12B.D.J	8.5 B.J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, pg/L	2.6 J	10 U	10 U	25 U	20 U	10 U
Vinyl Chloride, ug/L	10 U	10U	10 U	25 U	20 U	10 U
Total Confident VOCs, ug/L	246	276	376	425	390	407

Sampling Event Date	25/GW 7/23/2002	26/GW 8/29/2002	27/GW 9/18/2002	28/GW 10/29/2002	29/GW 11/25/2002	30/GW 12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, ug/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, ug/L	2.6 J	1.3 J	1.8 J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 - Trichloroethane, ug/L	210	150	190	170	160 D	150
Trichloroethene, ug/L	10 U	1.9 J	1.9 J	2.5 J	10 U	1.9 J
Toluene, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, ug/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, ug/L	222	162	202	184	172	161

Sampling Event Date	31/GW 1/17/2003	32/GW 2/19/2003	33/GW 4/30/2003	34/GW 6/23/2003	35/GW 7/30/2003	36/GW 8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, ug/L	5.0 U	2.4 J	10 U	10 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10 U	10 U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Influent Analytical Results
Groundwater Treatment System
—Byron Barrel and Drum Site- -
Byron, NY

Sampling Event Date	37/GW 9/24/2003	38/GW 10/23/2003	39/GW 11/20/2003	40/GW 12/3/2003	41/GW 1/29/2004	42/GW 3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, pg/L	2.0 DJ	10U	1.1 J	1.6 J	5.0 U	1.0 J
Toluene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, gg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event Date	43/GW 5/20/2004	44/GW 6/16/2004	45/GW 7/15/2004	46/GW 8/26/2004	47/GW 9/14/2004	48/GW 10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10U	2.3 J	5.0 U	10 U	2.3 J
Cis -1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Methylene Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10 U	1.6 J	5.0 U	10 U	1.1 J
Toluene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event Date	49/GW 12/14/2004	50/GW 1/27/2005	51/GW 3/22/2005	52/GW 4/26/2005	53/GW 5/30/2005	54/GW 6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis -1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6 J	2.2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site -
Byron, NY

Sampling Event Date	55/GW 7/28/2005	56/GW 8/29/2005	57/GW 9/13/2005	58/GW 10/18/2005	59/GW 11/22/2005	60/GW 12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	10	9.5 J	2.3 J	7.1 J	5.2 J	2.7 J
1,1-Dichloroethene, pg/L	4.8	3.1 J	0.64 J	1.5 J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Methylene Chloride, ug/L	1.0 U	2.4 J	5.0 U	10U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, pg/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, pg/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, pg/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event Date	61/GW 1/19/2006	62/GW 2/24/2006	63/GW 3/27/2006	64/GW 4/20/2006	65/GW 5/25/2006	66/GW 6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, pg/L	1.7 J	1.3 J	1.1 J	1.3 J	1.5 J	0.94 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10U	5.0 U	10 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.1 BJ	5.0 U	10 U	1.3J	5.0 U
1,1,1 -Trichloroethane, pg/L	170	100	110	140	160	80
Trichloroethene, pg/L	1.3 J	0.87 J	0.95 J	1.0 J	1.2 J	0.72 J
Toluene, pg/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	5.0 U	10 U	10 U	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event Date	67 7/18/2006	68 8/7/2006	69 9/14/2006	70 10/12/2006	71 11/22/2006	72 12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4 J	2.3 J	1.3 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0 J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Influent Analytical Results
Groundwater Treatment System
—Byron-Barrel and Drum Site—
Byron, NY

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.8 J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, pg/L	0.64 J	2.7 DJ	1.5 J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	1.0 DJ	10 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, pg/L	0.78 J	1.3 DJ	10 U	1.1 J	1.2 J	0.67J
Toluene, pg/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	80	81	82	83	84
Date	7/24/2007	8/22/2007	9/12/2007	10/2007	11/2007	12/2007
Field Influent pH, std pH units	7.57	7.85	7.65	NS	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NS	NS	NS
1,1-Dichloroethane, pg/L	6.6	5.9	7.1	NS	NS	NS
1,1-Dichloroethene, pg/L	5.2	1.0 J	10 U	NS	NS	NS
Cis -1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Methylene Chloride, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
1,1,1 -Trichloroethane, pg/L	230 D	140 D	160	NS	NS	NS
Trichloroethene, pg/L	0.82 J	0.81J	10 U	NS	NS	NS
Toluene, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	NS	NS	NS
Total Confident VOCs, pg/L	242.62	147.71	167.1	NS	NS	NS

Sampling Event	85	86	87	88	89	90
Date	1/2008	2/2008	3/2008	4/2008	5/2008	6/2008
Field Influent pH, std pH units	NS	NS	NS	NS	NS	NS
Total Suspended Solids, mg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane, pg/L	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Cis -1,2- Dichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Methylene Chloride, pg/L	NS	NS	NS	NS	NS	NS
1,1,1 - Trichloroethane, pg/L	NS	NS	NS	NS	NS	NS
Trichloroethene, pg/L	NS	NS	NS	NS	NS	NS
Toluene, pg/L	NS	NS	NS	NS	NS	NS
Vinyl Chloride, pg/L	NS	NS	NS	NS	NS	NS
Total Confident VOCs, pg/L	NS	NS	NS	NS	NS	NS

Table 1
Influent Analytical Results
Groundwater Treatment System
—Byron.Barrel and Drum Site -
Byron, NY

Sampling Event	91	92
Date	9/2008	12/2008
Field Influent pH, std pH units	NS	NS
Total Suspended Solids, mg/L	NS	NS
1,1-Dichloroethane, ug/L	NS	NS
1,1-Dichloroethene, pg/L	NS	NS
Cis-1,2- Dichloroethene, ug/L	NS	NS
Methylene Chloride, pg/L	NS	NS
1,1,1 - Trichloroethane, pg/L	NS	NS
Trichloroethene, pg/L	NS	NS
Toluene, pg/L	NS	NS
<u>Vinyl Chloride, pg/L</u>	<u>NS</u>	<u>NS</u>
<u>Total Confident VOCs, pg/L</u>	<u>NS</u>	<u>NS</u>

NA= Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.5 J	5.0 U	1.5 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2- Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3J	2.8 B,J
1,1,1 - Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barge and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	1.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	1.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW	48/GW	49/GW
Date	12/14/2006	3/21/2007	6/27/2007	9/12/2007	12/2007	3/2008
Field Effluent pH, std pH units	8.36	8.44	8.39	8.63	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Cis -1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS	NS

Sampling Event	50/GW	51/GW	52/GW
Date	6/2008	9/2008	12/2008
Field Effluent pH, std pH units	NS	NS	NS
Total Suspended Solids, mg/L	NA	NA	NA
1,1-Dichloroethane, ug/L	NS	NS	NS
1,1-Dichloroethene, ug/L	NS	NS	NS
Cis -1,2 - Dichloroethene, ug/L	NS	NS	NS
Methylene Chloride, ug/L	NS	NS	NS
1,1,1 - Trichloroethane, ug/L	NS	NS	NS
Trichloroethene, ug/L	NS	NS	NS
Toluene, ug/L	NS	NS	NS
Vinyl Chloride, ug/L	NS	NS	NS

NA = Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC exceeds calibration range. D - identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
 Field Parameters
 Quarterly Sampling Event
 December 11, 2008
 Byron-Barrelahd Drum Site
 Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	pH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW28	0910	4.9	-39	7.75	0.5	4.17	777
	0915	4.6	-39	7.76	0.5	3.92	780
	0920	4.6	-40	7.76	0.5	3.87	780
	0925	4.6	-42	7.76	0.5	3.71	780
	0930	4.5	-43	7.76	0.5	3.59	781
	0935	4.4	-43	7.76	0.5	3.50	782
MW-4-9/GW28	0950	5.3	-59	7.45	1.0	1.75	1590
	0955	5.7	-63	7.47	1.0	1.06	1600
	1000	5.7	-64	7.47	1.0	0.96	1650
	1005	5.6	-64	7.47	1.0	0.90	1670
	1010	5.6	-65	7.47	1.0	0.86	1670
	1015	5.7	-64	7.46	1.0	0.80	1680
MW-10B-9/GW28	1225	6.2	-70	8.61	0.5	1.96	792
	1230	6.7	-74	8.38	0.5	1.00	776
	1235	6.8	-76	8.37	0.5	0.95	774
	1240	6.8	-77	8.30	0.5	0.90	772
	1245	6.8	-77	8.30	0.5	0.83	770
	1250	6.7	-78	8.27	0.5	0.80	770
PW-1/GW28	1320	9.1	-77	7.37	1.8	2.75	2760
PW-2/GW28	1200	8.9	-94	7.63	1.4	2.06	2210
PW-3/GW28	1100	8.6	-77	7.83	0.5	1.21	2608

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

N/A= Not Available

Table 4
Groundwater Elevations
December 2008 Sampling Event
Byron Barrel and Drum Site
Byron, NY

Operator: P. Little
Date: 12/11/2008

Pumping Wells	DTW	cievauon	cievanon	TD	WC.ft.
PW-1	7.91	642.82	634.91	<i>m</i>	<i>m</i>
PW-2	7.39	641.34	633.95	.	<i>m</i>
PW-3	6.04	641.11	635.07	<i>m</i>	<i>m</i>

<u>Monitoring Wells</u>					
MW-1	4.70	639.63	634.93	11.65	6.95
MW-2	11.21	646.36	635.15	15.10	3.89
MW-4	3.61	638.56	634.95	11.50	7.89
MW-10B	9.34	644.44	635.10	20.35	11.01
MW-21	7.78	642.52	634.74	27.90	20.12
Residential	15.83	650.78	634.95	35.17	19.34

Piezometers

PZ-1	7.52	<u>643.11</u>	635.59	27.02	<u>19.50</u>
PZ-2	6.32	642.39	636.07	27.25	20.93

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Nitrate (mg/L)	Phosphate (mg/L)	Sulfate (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	15	5	2
MW-1	3/20/2002	639.63	5.24	634.39	86	49	NA	5 U	1700	2 J	5 U	2 J
	6/12/2002	639.63	5.07	634.56	81	38	NA	5 U	1600	3 J	5 U	5 U
	9/18/2002	639.63	7.15	632.48	13	13 J	NA	5 UJ	350	5 U	5 U	5 U
	12/18/2002	639.63	5.62	634.01	42	37 J	NA	25 U	1200	5 J	25 U	25 U
	4/29/2003	639.63	4.53	635.10	57	34	NA	25 U	1300 J	25 U	25 U	25 U
	6/24/2003	639.63	5.36	634.27	32	24	NA	5 U	720	4 J	5 U	5 U
	9/24/2003	639.63	6.72	632.91	24 J	17 J	NA	25 U	580	25 U	25 U	25 U
	12/3/2003	639.63	5.53	634.10	33 J	28 J	NA	40 U	860 J	40 U	40 U	40 U
	3/30/2004	639.63	3.40	636.23	30 J	31	NA	25 U	830 J	25 UJ	25 U	25 U
	6/16/2004	639.63	4.20	635.43	26	22 J	NA	25 UJ	870	25 U	25 U	25 U
	9/14/2004	639.63	4.56	635.07	28	26	NA	25 U	730	25 U	25 U	25 U
	12/14/2004	639.63	4.61	635.02	31	26	NA	25 U	760	25 UJ	25 U	25 U
	3/22/2005	639.63	4.32	635.31	41	110	NA	5 U	830	5	5 U	5 U
	6/7/2005	639.63	5.45	634.18	10 J	14 J	NA	13 J	340	50 U	50 UJ	50 U
	9/13/2005	639.63	6.89	632.74	14	16	NA	5 U	410	2 J	5 UJ	5 U
	12/20/2005	639.63	4.78	634.85	24 J	24 J	NA	40 U	580	40 U	40 U	40 U
	3/26/2006	639.63	5.07	634.56	29	24	NA	5 U	540	4 J	5 U	5 U
	6/22/2006	639.63	5.68	633.95	7	9	NA	5 U	220	2 J	5 U	5 U
	9/14/2006	639.63	5.15	634.48	5 J	6 J	NA	10 U	190	2 J	10 U	10 U
	12/7/2006	639.63	4.54	635.09	6 J	9 J	NA	10 U	170	2 J	10 U	10 U
	3/22/2007	639.63	4.19	635.44	2 J	4 J	NA	10 U	100	2 J	10 U	10 U
	6/14/2007	639.63	5.30	634.33	6	3 J	NA	5 U	200	2 J	5 U	5 U
	9/12/2007	639.63	6.56	633.07	7 J	3 J	NA	20 U	200	20 U	20 U	20 U
	12/19/2007	639.63	4.95	634.68	10	2 J	NA	10 U	200	2 J	10 U	10 U
	3/26/2008	639.63	4.33	635.30	8 J	3 J	NA	20 U	210	20 U	20 U	20 U
	6/18/2008	639.63	4.83	634.80	19	3 J	NA	10 U	130	1 J	10 U	10 U
	9/25/2008	642.82	5.25	637.57	20	1 J	NA	10 U	47	1 J	10 U	10 U
	12/11/2008	642.82	4.70	638.12	55	2 J	NA	5 U	54	2 J	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Asbestos (ug/L)	Chromium (ug/L)	Cadmium (ug/L)	Copper (ug/L)	Iron (ug/L)	Lead (ug/L)	Manganese (ug/L)	Nickel (ug/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	5
MW-4	3/20/2002	638.56	4.79	633.77	17 J	14 J	NA	25 U	450	10 J	25 U	25 U
	6/12/2002	638.56	4.48	634.08	3 J	2 J	NA	5 U	83	8	5 U	5 U
	9/18/2002	638.56	6.04	632.52	5 U	5 UJ	NA	5 UJ	27	5	5 U	5 U
	12/18/2002	638.56	5.22	633.34	40	24	NA	5 U	200	6	5 U	5 U
	4/29/2003	638.56	4.50	634.06	31	13 J	NA	25 U	530	25 U	25 U	25 U
	6/24/2003	638.56	4.58	633.98	5 UJ	5 UJ	NA	5 U	17 J	4 J	5 U	5 UJ
	9/24/2003	638.56	5.91	632.65	35	9 J	NA	10 U	240	8 J	10 U	10 U
	12/3/2003	638.56	4.98	633.58	65	17 J	NA	20 U	550	11 J	20 U	20 U
	3/30/2004	638.56	4.15	634.41	12	5	NA	5 U	130	3 J	5 U	5 U
	6/16/2004	638.56	3.64	634.92	15 J	25 UJ	NA	25 UJ	150	25 U	25 U	25 U
	9/14/2004	638.56	3.71	634.85	11 J	25 U	NA	25 U	87	25 U	25 U	25 U
	12/14/2004	638.56	3.97	634.59	11 J	25 U	NA	25 U	67	25 U	25 U	25 U
	3/22/2005	638.56	3.55	635.01	50 U	50 U	NA	50 UJ	87	50 U	50 U	50 U
	6/7/2005	638.56	4.25	634.31	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	9/13/2005	638.56	5.84	632.72	5 U	5 U	NA	5 U	11	2 J	5 U	5 U
	12/20/2005	638.56	4.75	633.81	4 J	25 U	NA	25 U	48	25 U	25 U	25 U
	3/25/2006	638.56	4.32	634.24	5 U	5 U	NA	5 U	8	1 J	5 U	5 U
	6/22/2006	638.56	4.50	634.06	5 U	5 U	NA	5 U	9	1 J	5 U	5 U
	9/14/2006	638.56	3.92	634.64	5 U	5 U	NA	5 U	13	2 J	5 U	5 U
	12/7/2006	638.56	3.64	634.92	25 U	25 U	NA	25 U	6 J	25 U	25 U	25 U
	3/22/2007	638.56	3.24	635.32	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	6/14/2007	638.56	4.50	634.06	5 U	5 U	NA	5 U	10	1 J	5 U	5 U
	9/12/2007	638.56	5.30	633.26	5 U	5 U	NA	5 U	14	2 J	5 U	5 U
	12/19/2007	638.56	3.79	634.77	5 U	5 U	NA	5 U	16	1 J	5 U	5 U
	3/26/2008	638.56	2.99	635.57	4 J	20 U	NA	20 U	31	2 J	20 U	20 U
	6/18/2008	638.56	3.48	635.08	4 J	20 U	NA	20 U	16 J	1 J	20 U	20 U
	9/25/2008	638.56	4.29	634.27	11	10 U	NA	10 U	15	2 J	10 U	10 U
	12/11/2008	638.56	3.61	634.95	37	20 U	NA	20 U	49	5 J	20 U	20 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location (D)	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Iron (mg/L)	Copper (mg/L)	Lead (mg/L)	1,2-Dichloroethane (mg/L)	Trichloroethene (mg/L)	1,1,1-Trichloroethane (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 UJ	NA	5 UJ	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/12/2007	644.44	10.98	633.46	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U
	12/19/2007	644.44	9.54	634.90	64 J	120 U	NA	31 J	1300	120 U	120 U	120 U
	3/26/2008	644.44	8.68	635.76	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/18/2008	644.44	9.19	635.25	0.4 J	5 U	NA	5 U	5	5 U	5 U	5 U
	9/25/2008	644.44	9.81	634.63	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U
	12/11/2008	644.44	9.34	635.10	0.8 J	5 U	NA	5 U	2 J	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location 10	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Copper (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Lead (mg/L)	Vanadium (mg/L)	Barium (mg/L)
		Groundwater Cleanup Levels (pg/L):			5	5	NA	5	5	5	5	2
MW-21	3/26/1999	NA	NA	NA	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 U	NA	25 U	25 U	25 U	5BJ	25 U
	9/17/2002	642.52	9.50	633.02	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	642.52	8.23	634.29	5 U	5 UJ	NA	5 U	5 UJ	5 U	5 U	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	3/30/2004	642.52	7.56	634.96	5 UJ	5 UJ	NA	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	12/19/2007	642.52	7.81	634.71	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	3/26/2008	642.52	7.34	635.18	20 U	20 U	NA	20 U	20 U	20 U	20 U	20 U
MW-Residentiat	3/21/2002	650.78	15.79	634.99	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	6/12/2002	650.78	15.62	635.16	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	9/17/2002	650.78	17.50	633.28	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	650.78	16.52	634.26	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	4/30/2003	650.78	17.74	633.04	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/30/2004	650.78	15.47	635.31	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2005	650.78	15.24	635.54	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/25/2006	650.78	15.75	635.03	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2007	650.78	15.09	635.69	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/26/2008	650.78	15.25	635.53	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Concentration (µg/L)	5	10	20	50	100	200	500
		Groundwater Cleanup Levels (µg/L):			5	5	NA	5	5	5	5	5
PW-1	12/21/1998	NA	NA	NA	20 U	5 J	20 U	9BJ	270	11 J	20 U	20 U
	12/27/2001	NA	NA	NA	15	6.2	5 U	5 U	280	5.2	5 U	5 U
	3/20/2002	642.82	NM	NM	11	5	5 U	5 U	320	3 J	5 U	5 U
	6/12/2002	642.82	NM	NM	18	3 J	5 U	5 U	380	2 J	5 U	5 U
	9/18/2002	642.82	NM	NM	12	2 J	5 U	5 UJ	270	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	e	5	5 U	5 U	160	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	11	2 J	5 U	5 U	180	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	12	2 J	5 U	5 U	190	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	6	5 U	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	B	2 J	5 U	5 U	150	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	150	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	380	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	10	2 J	5 U	5 U	210	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	140	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	23	5 U	5 U	200 J	2 J	5 U	5 U
	6/7/2005	642.82	21.50	621.32	10	2 J	10 U	2 U	59	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	73	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	140	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	76	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	77	0.6 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9DJ	25 U	25 U	25 U	230	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	160	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	170	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	280	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5 J	10 U	10 u	10 U	130	10 U	10 U	10 U
	12/21/2007	642.82	7.95	634.87	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
	3/26/2008	642.82	7.11	635.71	100 U	100 U	100 U	100 U	100 U	100 u	100 U	100 U
	6/18/2008	642.82	7.19	635.63	7	100 U	100 U	100 U	7	100 u	100 U	100 U
	9/25/2008	642.82	8.39	634.43	12	5 U	5 U	5 U	3 J	0.6 J	2 J	5 U
	12/11/2008	642.82	7.91	634.91	32	5 U	5 U	2 J	2 J	1 J	0.8 J	5 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	1	5	1	13	1	2	3	2
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-2	12/27/2001	NA	NA	NA	68	23	1.4 J	5 U	960	4 J	5 U	1.1 J
	3/20/2002	641.34	NM	NM	24	13	5 U	5 U	720	2 J	5 U	5 U
	6/12/2002	641.34	NM	NM	18	10	5 U	5 U	370	2 J	5 U	5 U
	9/18/2002	641.34	NM	NM	5	4 J	5 U	5 UJ	160	5 U	5 U	5 U
	12/18/2002	641.34	17.68	623.66	12	14	10 U	10 U	280	10 u	10 U	10 u
	4/30/2003	641.34	16.82	624.52	11	6	5 U	5 U	200	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	8	5	5 U	5 U	180	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	6	2 J	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	6	3 J	5 U	5 U	160	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	4 J	3 J	5 U	5 U	140	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	5	5 U	5 U	5 UJ	120	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	5	4 J	5 U	5 U	160	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	8	5	5 U	5 U	160	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	S	11	5 U	5 U	140	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	3 J	2 J	5 U	5 U	70	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	3 J	3 J	5 U	5 U	94 J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	1 J	5 U	5 U	5 U	30	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	5	1 J	5 U	5 U	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	4 J	2 J	10 U	10 BL	170	1 J	10 u	10 u
	9/14/2006	641.34	6.75	634.59	3DJ	1 DJ	10 U	10 U	92	1 DJ	10 u	10 u
	12/7/2006	641.34	6.11	635.23	9DJ	3 DJ	10 U	10 U	230	2 J	10 u	10 u
	3/22/2007	641.34	4.19	637.15	8 J	4 J	10 U	10 U	90	1 J	10 u	10 u
	6/14/2007	641.34	4.72	636.62	8 J	2 J	20 U	20 U	270	20 U	20 U	20 U
	9/12/2007	641.34	7.97	633.37	5 J	1 J	10 U	10 U	140	10 U	10 u	10 u
	12/21/2007	641.34	6.31	635.03	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
	3/26/2008	641.34	4.19	637.15	250 U	250 U	250 U	250 U	30 J	250 U	29 J	250 U
	6/18/2008	641.34	4.24	637.10	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
	9/25/2008	641.34	6.92	634.42	14	5 U	5 U	5 U	5 U	0.7 J	3 J	5 U
	12/11/2008	641.34	7.39	633.95	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 5
 Historic Groundwater Quality - Select Analytes
 Byron Barrel and Drum Site
 Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	Chloride (mg/L)	Sulfate (mg/L)	Iron (mg/L)	Lead (mg/L)	Copper (mg/L)	Manganese (mg/L)	Electrical Conductivity (µmhos/cm)	Total Dissolved Solids (mg/L)
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-3	12/27/2001	NA	NA	NA	5 U	5 U	5 U	5 U	16	1.7 J	5 U	5 U
	3/20/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	8	1 J	5 U	5 U
	6/12/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	6	5 U	5 U	5 U
	9/18/2002	641.11	NM	NM	5 U	5 U	5 U	5 U	4 J	5 U	5 U	5 U
	12/18/2002	641.11	19.90	621.21	5 U	5 U	5 U	5 U	4 J	5 U	5 U	5 U
	4/30/2003	641.11	19.46	621.65	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	6/23/2003	641.11	18.55	622.56	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	9/24/2003	641.11	20.97	620.14	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/3/2003	641.11	20.28	620.83	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U
	3/30/2004	641.11	20.52	620.59	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/16/2004	641.11	19.65	621.46	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	9/14/2004	641.11	20.91	620.20	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/14/2004	641.11	18.33	622.78	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	3/22/2005	641.11	22.17	618.94	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	6/7/2005	641.11	20.30	620.81	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	9/13/2005	641.11	21.52	619.59	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	12/19/2005	641.11	20.36	620.75	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	3/26/2006	641.11	22.31	618.80	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	6/22/2006	641.11	20.72	620.39	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U
	9/14/2006	641.11	6.53	634.58	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
	12/7/2006	641.11	7.81	633.30	6 DJ	2 DJ	5 U	5 U	170	1 J	5 U	5 U
	3/22/2007	641.11	5.45	635.66	7	4 J	5 U	5 U	210	1 J	5 U	5 U
	6/14/2007	641.11	5.18	635.93	9 J	3 J	20 U	20 U	260	20 U	20 U	20 U
	9/12/2007	641.11	7.73	633.38	4 J	1 J	10	10	130	10 U	10 U	10 U
	12/21/2007	641.11	6.23	634.88	NA	NA	NA	NA	NA	NA	NA	NA
	4/10/2008	641.11	5.48	635.63	0.9 J	5 U	5 U	5 U	24	5 U	5 U	5 U
	6/18/2008	641.11	5.53	635.58	0.6 J	5 U	5 U	5 U	24	5 U	5 U	5 U
	9/25/2008	641.11	6.62	634.49	5 U	5 U	5 U	5 U	22	5 U	5 U	5 U
	12/11/2008	641.11	6.04	635.07	5 U	5 U	5 U	5 U	14	5 U	5 U	5 U

Notes:

All concentrations in micrograms per liter (ug/L)

Exceedences of the groundwater cleanup standard are indicated in bold.

NM = Not Measured

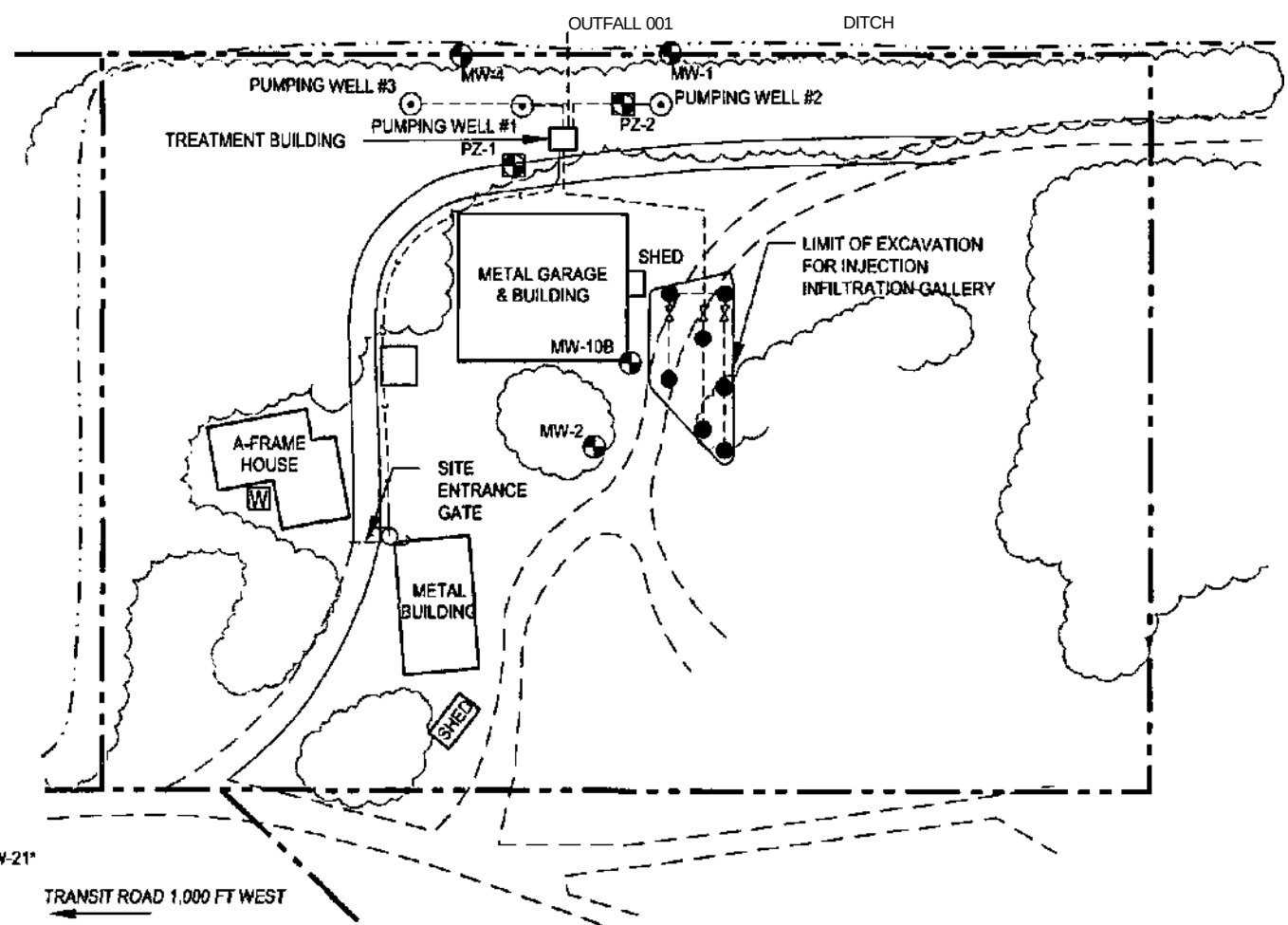
NA = Not Available

Table 6
Schedule of Sampling and Analysis for 2009
Byron Barrel and Drum Site
Byron, NY

Month	Event	Wells to be Sampled	Constituents to be Analyzed
March 2009	First Quarter 2009 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential PW-1 PW-2	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
June 2009	Second Quarter 2009 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
September 2009	Third Quarter 2009 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
December 2009	Fourth Quarter 2009 Monitoring Event	MW-1 MW-4 MW-10B PW-1 PW-2 PW-3	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride

FIGURES

N
n



LEGEND

○	MONITORING WELL	---	PROPERTY LINE
⊙	FORMER RESIDENTIAL WELL	---	FENCE
○	PIEZOMETER WELL	---	TREELINE
○	INJECTION GALLERY PIEZOMETER WELL	---	NEW GRAVEL ROAD
X	INJECTION GALLERY VALVE	---	PRE-EXISTING GRAVEL ROAD
⊙	PUMPING WELL	---	DITCH
<TL>	UTILITY POLE	---	ELECTRICS PHONE LINE
		---	REINJECTION PIPING

SITE PLAN
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
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SCALE IN FEET
DATE
07-25-06

*NOTE: MW-21 IS 200 FEET WEST OF PROPERTY LINE
SOURCE: ERM C40 SERVICES

0
WELL NO. 1
1/3 HP

©
WELL NO. 2
1/3 HP

fe
WELL NO. 3
1/3 HP

-C*3-

-D*H>-

-C»3-W-

TO REINJECTION (OR)
SURFACE DISCHARGE

-CaO-

TO SURFACE DISCHARGE
OUTFALL 001

BAG FILTER

AIR OIL FT
r

TO ATMOSPHERE

AIR
STRIPPER

rC&H

AIR IN

rDfeKH-IXI-

150 CFM

&
BLOWER
3 HP

tf)
REINJECTION
PUMP
2 HP

LEGEND

- rDid SAMPLING PORT
- a** REDUCER
- w** CHECK VALVE
- it- FLANGE FITTING
- r*j BUTTERFLY VALVE
- C*3 BALL VALVE
- AIR LINE
- PROCESS PIPING

GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380
SCALE IN FEET DATE FIGURE
80 09-02-05 2



Figure 3
Influent VOC Concentration vs. Time
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY

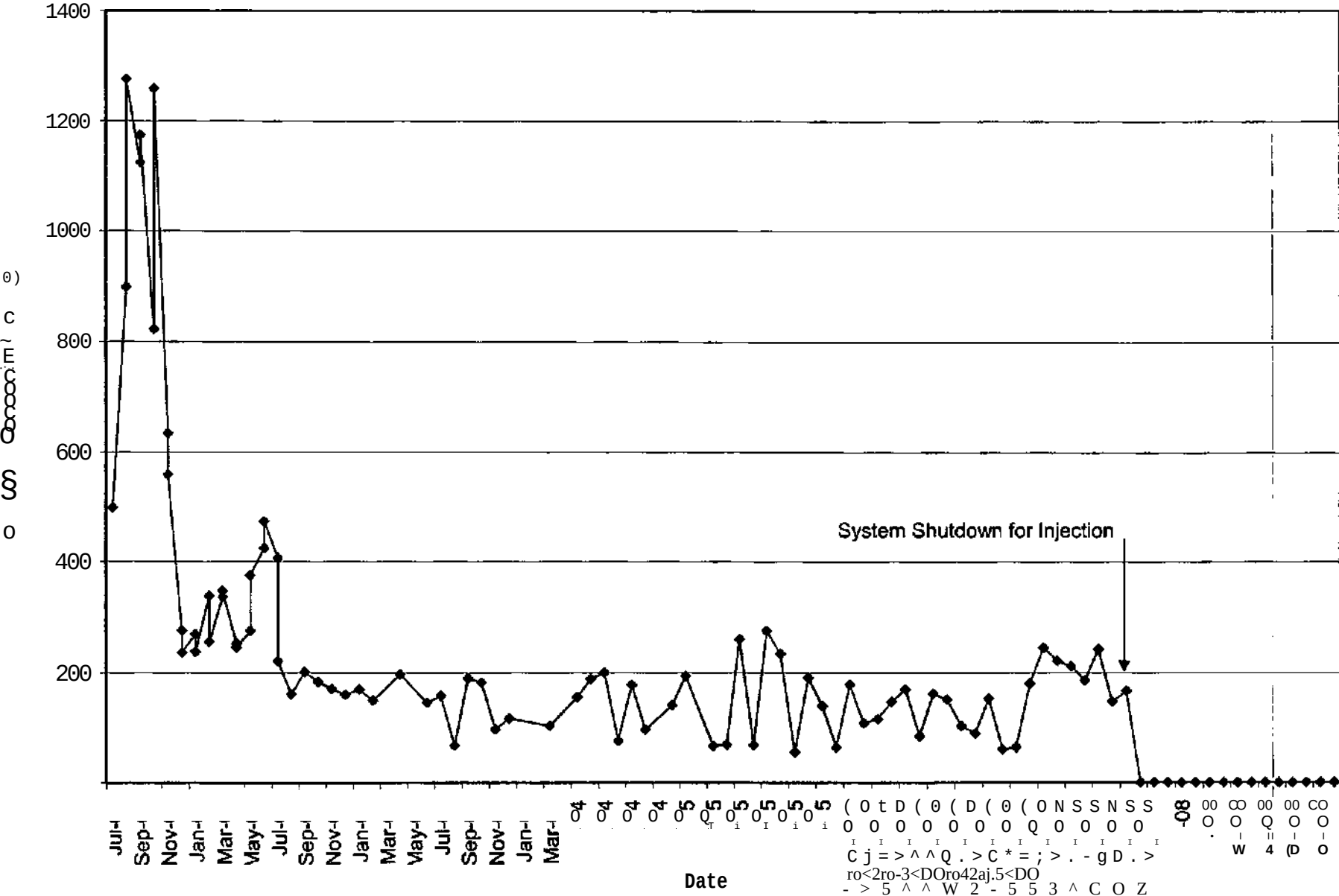
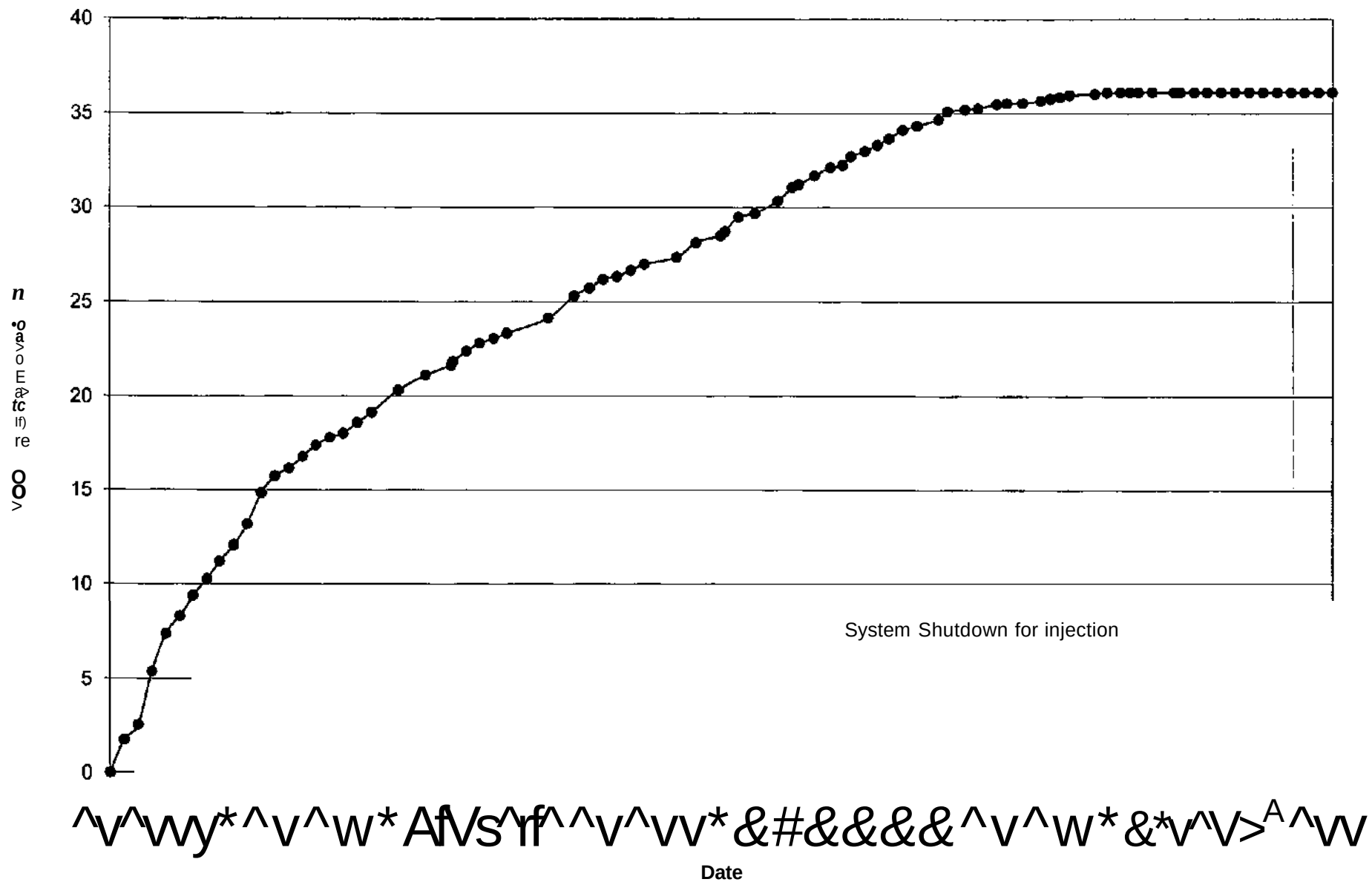
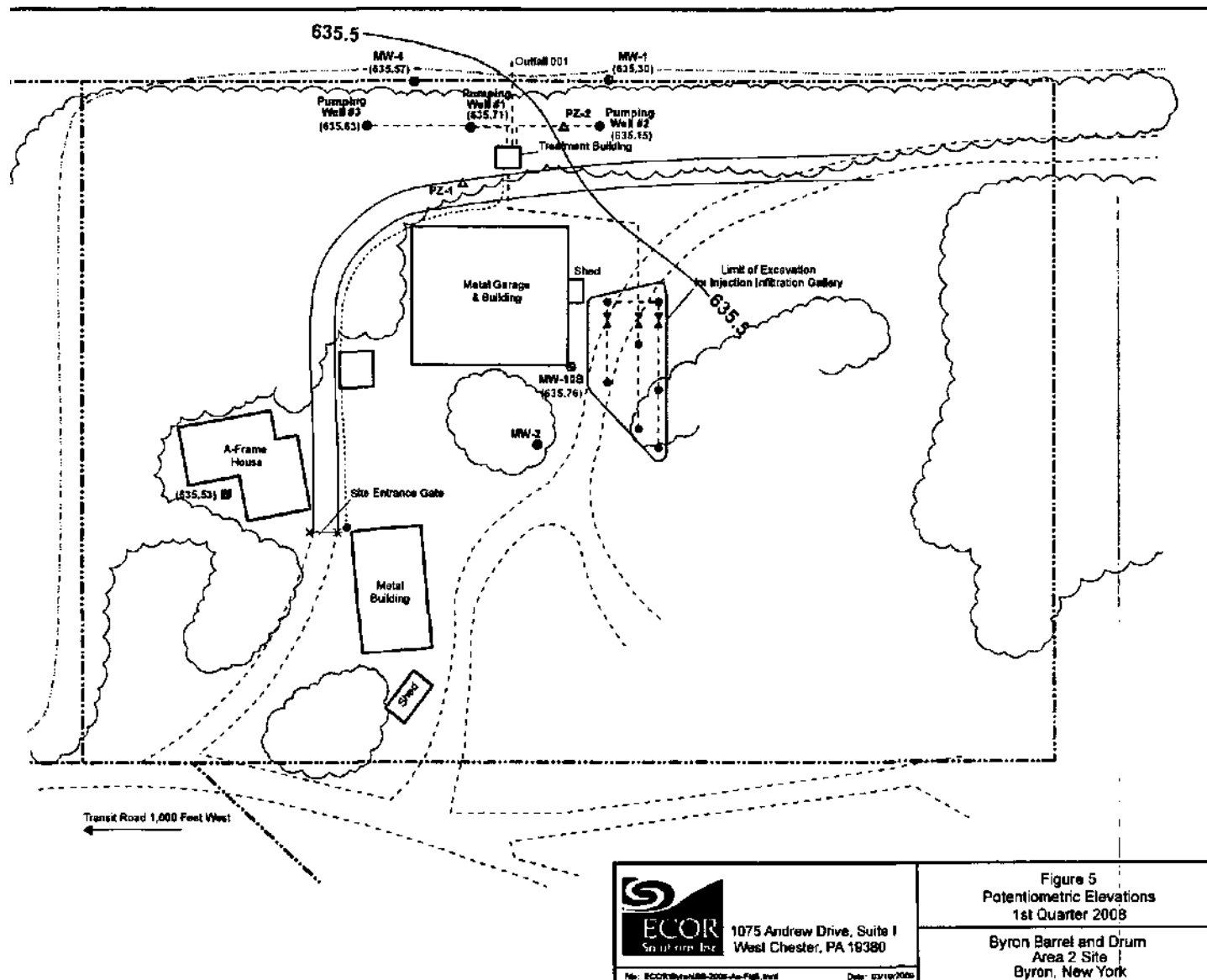
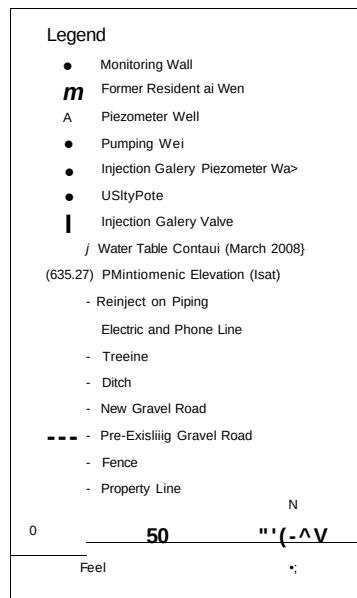


Figure 4
Cumulative VOC Mass Removed
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY

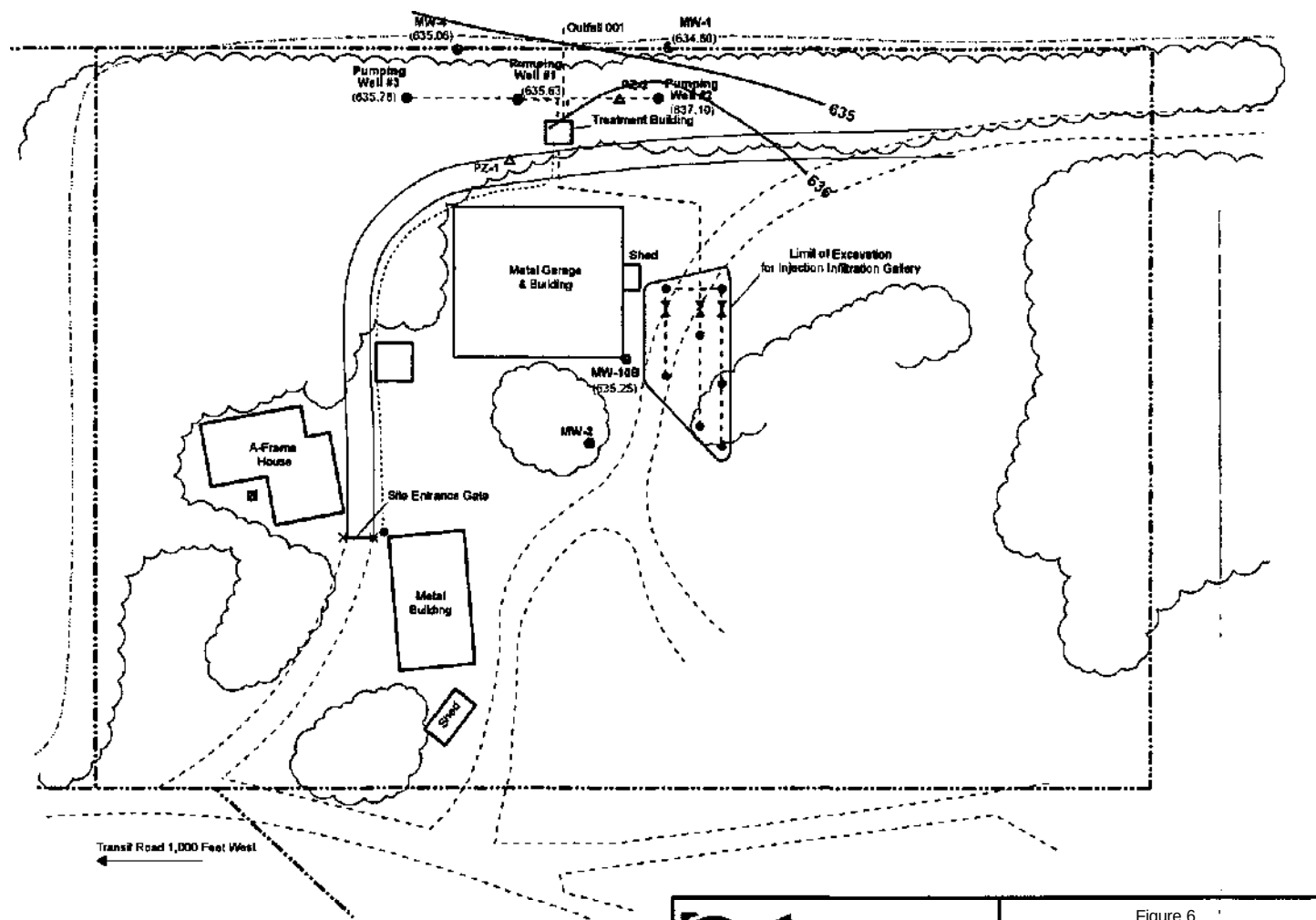




Legend

- 9 Mortnnrto Well
- Fwmer RetUenBal Wei
- A Piezometer Wall
- Pumping Wei
- Injection Galery Piezometer WaD
- Utility Pole
- X Injection Galery Valve
- """"^ Water Table Contour (June 2008)
- 1635.27 Potanliometric Elevation (feet)
- Reinjecoon Piping
- Electric and Phone Line
- Tteelne
- Ditch
- New Giavel Road
- Pre-EKButnfl Gravel Rnad
- X—X- Fence
- " • Property Line

50



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West Chester, PA 19380

Fk ECCHUBpwaB-IOM M rjinM OH OVibloot

Figure 6
Potentiometric Elevations
2nd Quartr2008

Byron Barrel and Drum
Area 2 Site I
Byron, New York

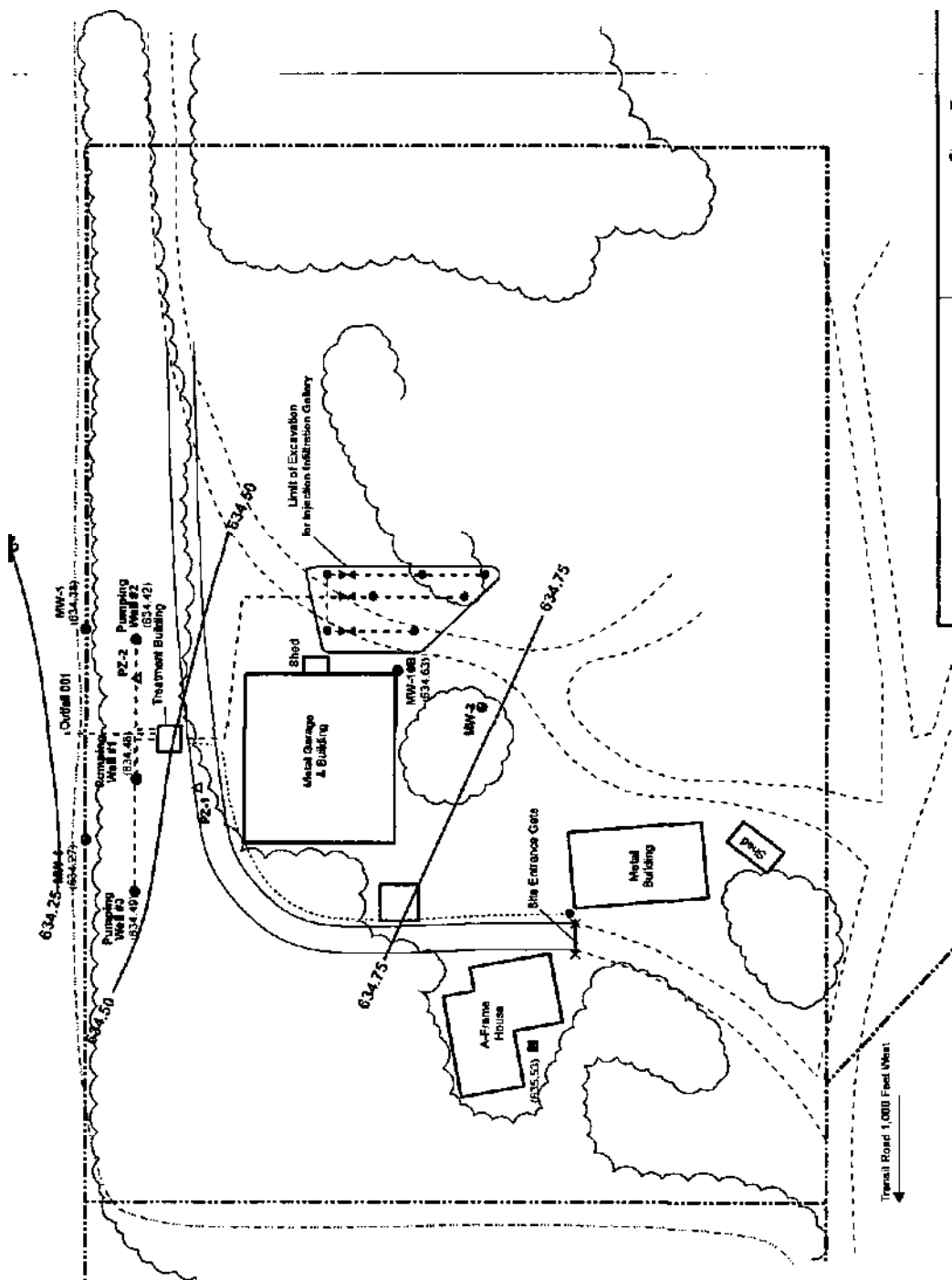


Figure 7
Potentiometric Elevations
3rd Quarter 2008
 Byron Blarel and Drum
 Area 2 Site
 Byron, New York

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 CONSULTANTS, INC.
 1075 Andrew Drive, Suite 1
 West Chester, PA 19380
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Legend

- 6 Monitoring WeB
- Formal Residential Wall
- A Piezometer Wall
- Pumping Well
- Injection Gallery Piezometer Wet
- Utility Pole
- X Injection Gallery Valve
- - - Reinjection Piping
- Electric and Phone Line
- TreeLine
- - - D'can
- New Gravel Road
- Pre-Exisiting Gravel Road
- X * Fence
- - - Property Line

1,1,1-TCA Concentration (March 26, 2005)

(^^) 10-100 ug/L

(^) 100 * ug/L

Sample ID	Standard	MYSDEC
1,1-DCA 25 U	1,1-Dichloroethane	5 ug/L
1,1-DCE 75 U	1,1-Dichloroethene	5 ug/L
1,1,1-TCA 75 U	1,1,1-Trichloroethane	5 ug/L
TCE 25 U	Trichloroethene	5 ug/L

All results BIO in ug/L

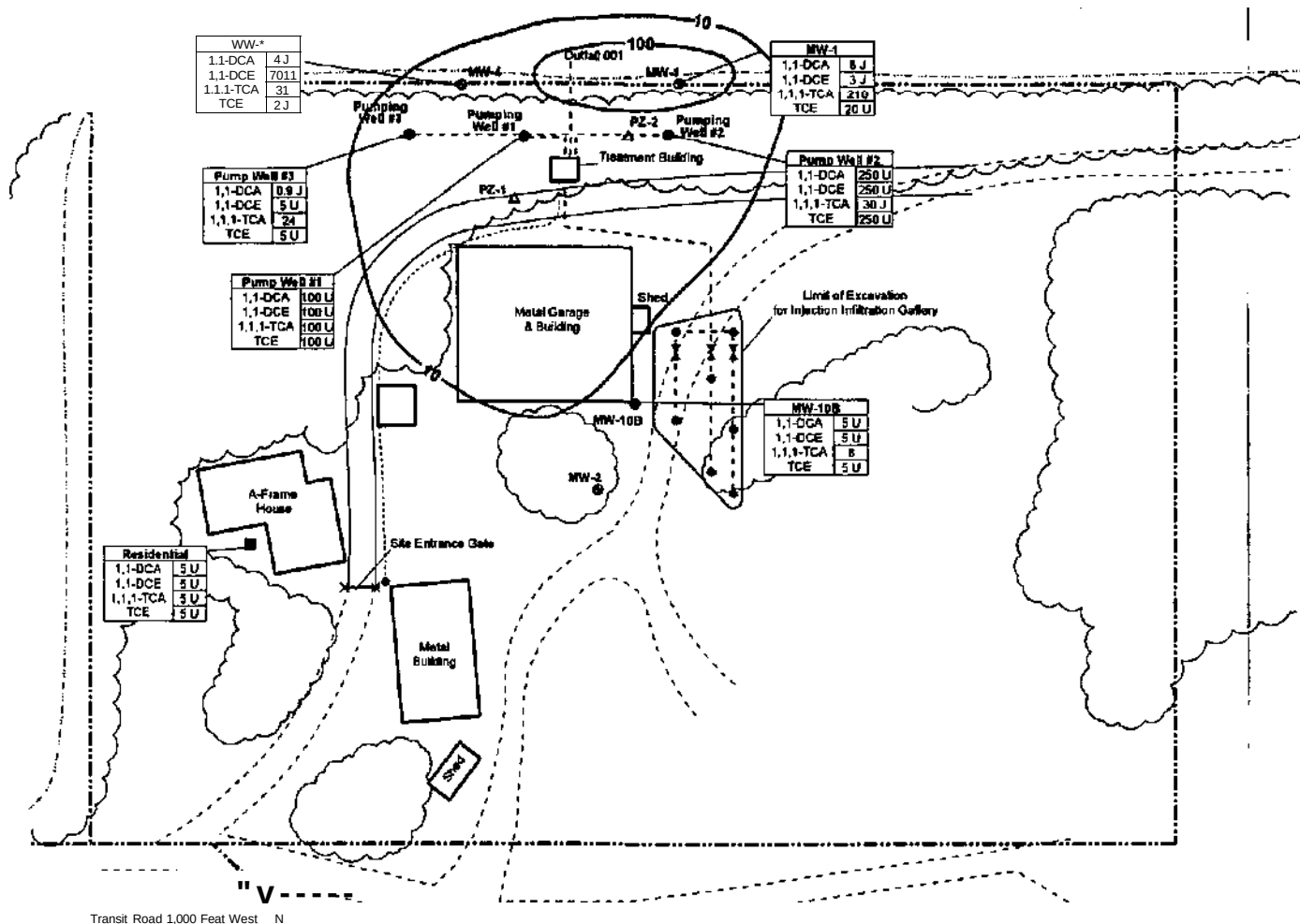
JJ Indicates the parameter was not detected at or above reported limit

J Estimated Value

»''' I Eiceidences

0 50

Feet



MW-21	7011
1,1-DCA	20 U
1,1-DCE	20 U
1,1,1-TCA	20 U
TCE	20 U

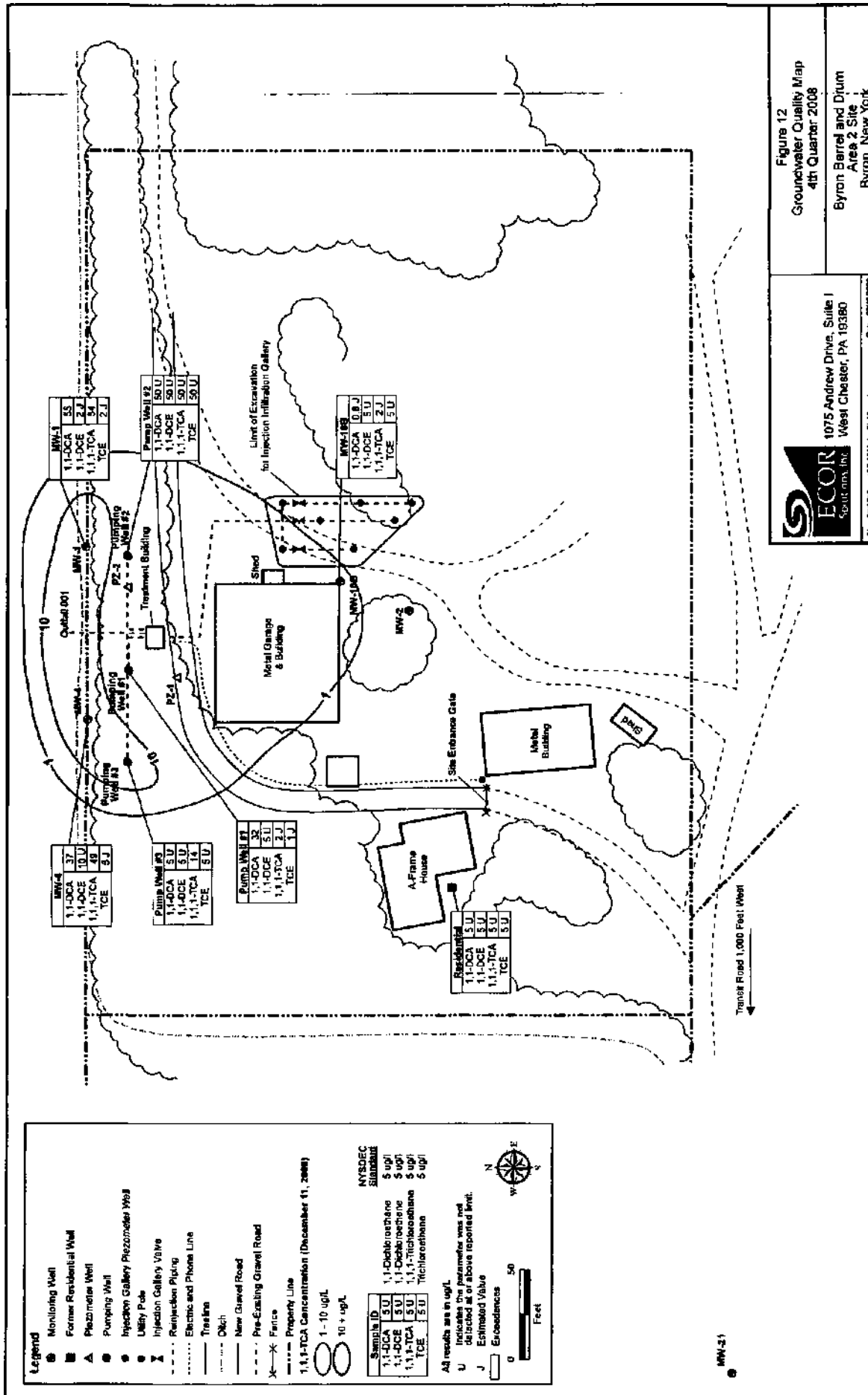


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West Chester, PA 19380

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Figure 9]
Groundwater Quality Map
1st Quarter 2008

Byron Barrel and Drum
Area 2 Site I
Byron, New York



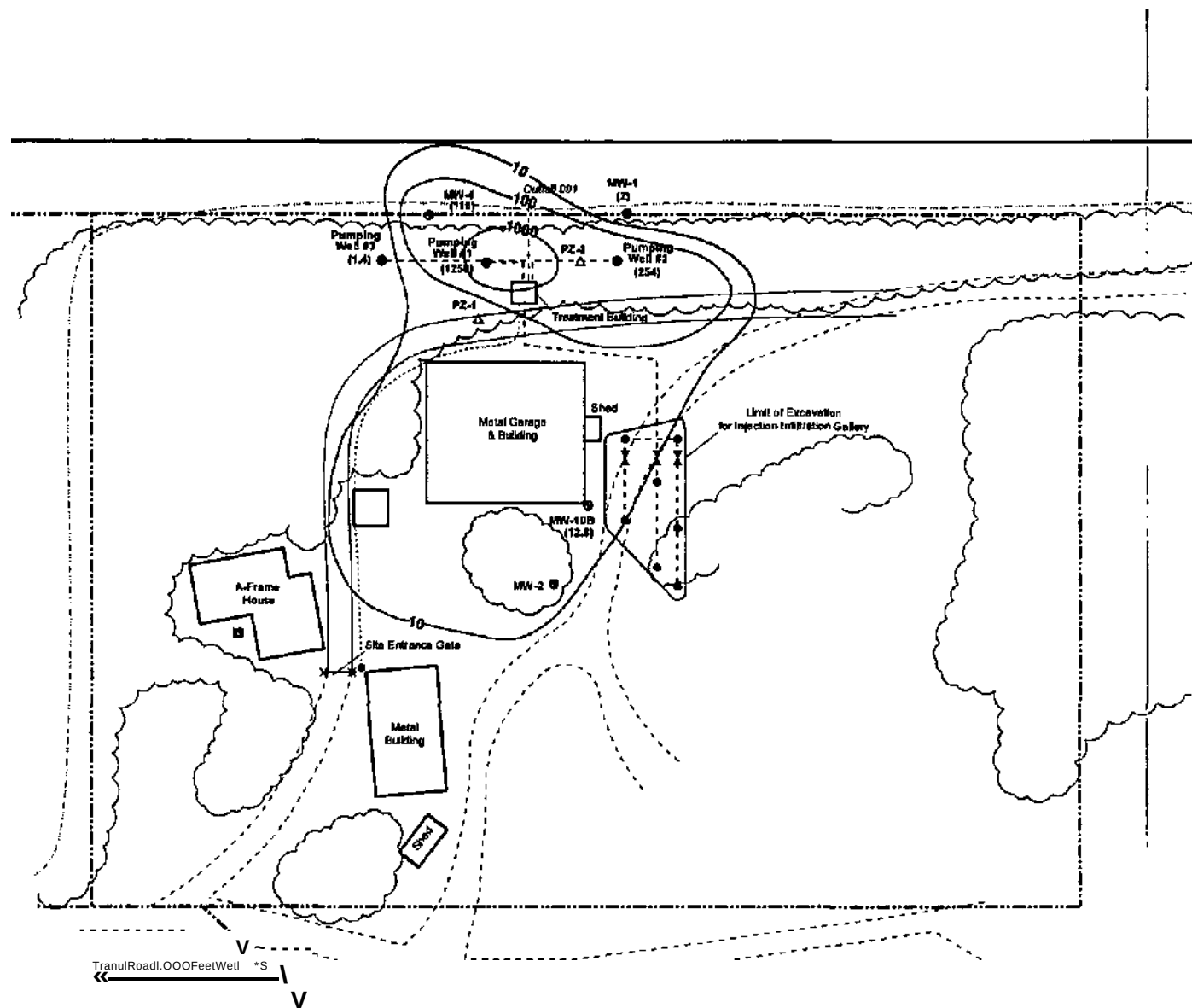
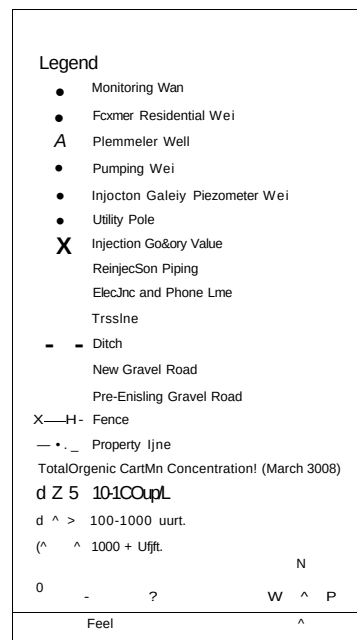
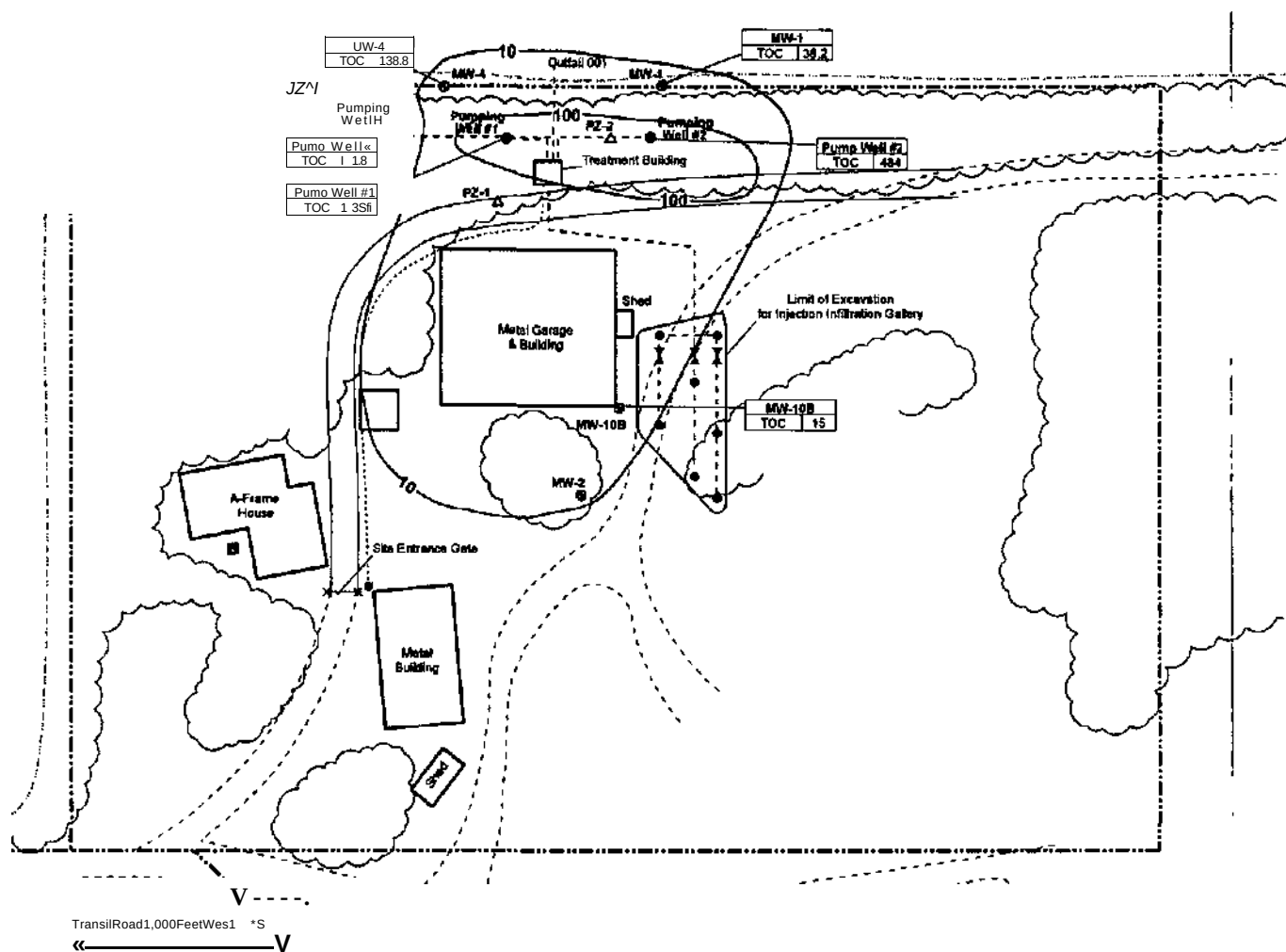


Figure 13
Total Organic Carbon Concentrations
in Groundwater
1st Quarter 2008i
Byron Barrel and Drum
Area 2 Site i
Byron, New York

Legend

- Monitoring Well
- B Formal Radon Potential Well
- A Piezometer Well
- Pumping Well
- Injection Gallery Piezometer Well
- Utility Pole
- J Injection Gallery Valve
- Remediation Piping
- Electric and Phone Line
- Tie Line
- Ditch
- New Gravel Road
- Pre-Existing Gravel Road
- X-W- Fence
- Property Line
- Total Organic Carbon Concentration (June 1998)
- C7-10 10-100ug/L
- f-10 100ug/L

50



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ECOAKS Environmental Services, Inc.

DMT 011111

Figure 14
Total Organic Carbon Concentrations
in Groundwater
2nd Quarter 2005
Byron Barrel and Drum
Area 2 Site
Byron, New York

Legend

- 6) Monitoring Well
- tS Former Residential Well
- A Piezometer Wall
- Pumping Well
- *> Injection Gallery Piezometer WBI
- * UUIV Pole
- X Injection Gallery Vake
- 092508-cantouiS.dvlfj Poh/line
- Rejection Piping
- Etodnc and Phone Line
- Treeline
- Ditch
- Mew Gravel Roed
- Pre-ExBting Gravel Road
- X*** Fence
- ^*** Property Line
- TOC Concentration In Groundwater (September 2008)
- C ^ > 1-10 mol/l
- C^> 10-100mll/l
- C 3 ^ 100-1000 mg/l
- C 3 5 1000 * mol/l

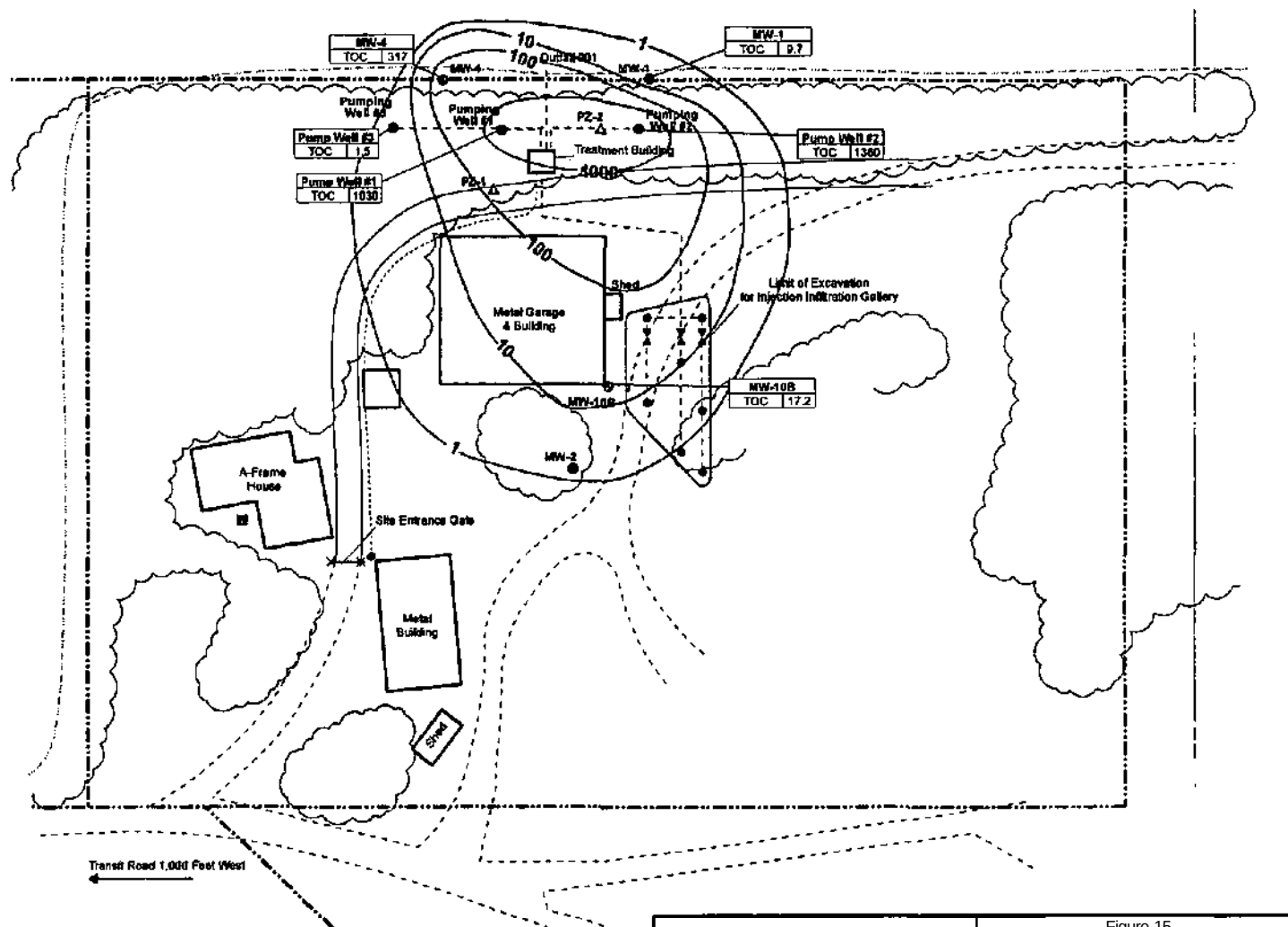


Figure 15
Total Organic Carbon Concentrations
in Groundwater
3rd Quarter 2008
Byron Barrel and Drum
Area 2 Site
Byron, New York

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Westchester, PA 19380

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oaa isiiinm

LB go nd

- Moratoring Wen
- Fomwr Residential Wen.
- A Piezometer Well
- Pumping Wei
- Injection Gelleiy Piezometer Wei
- UtIPty Pole

J 'Section Gaiety Vabe

Reinfection Piping

Electric and Phone Line

Tleeline

Ditch

Mew Gmvel Road

Pre-Eilsting Gravel Road

M—X- Fence

Property Line

TOC Concentration In Groundwater (December 200*)

CTT^ 10:00mg/L

(^) tOn-inonmgA

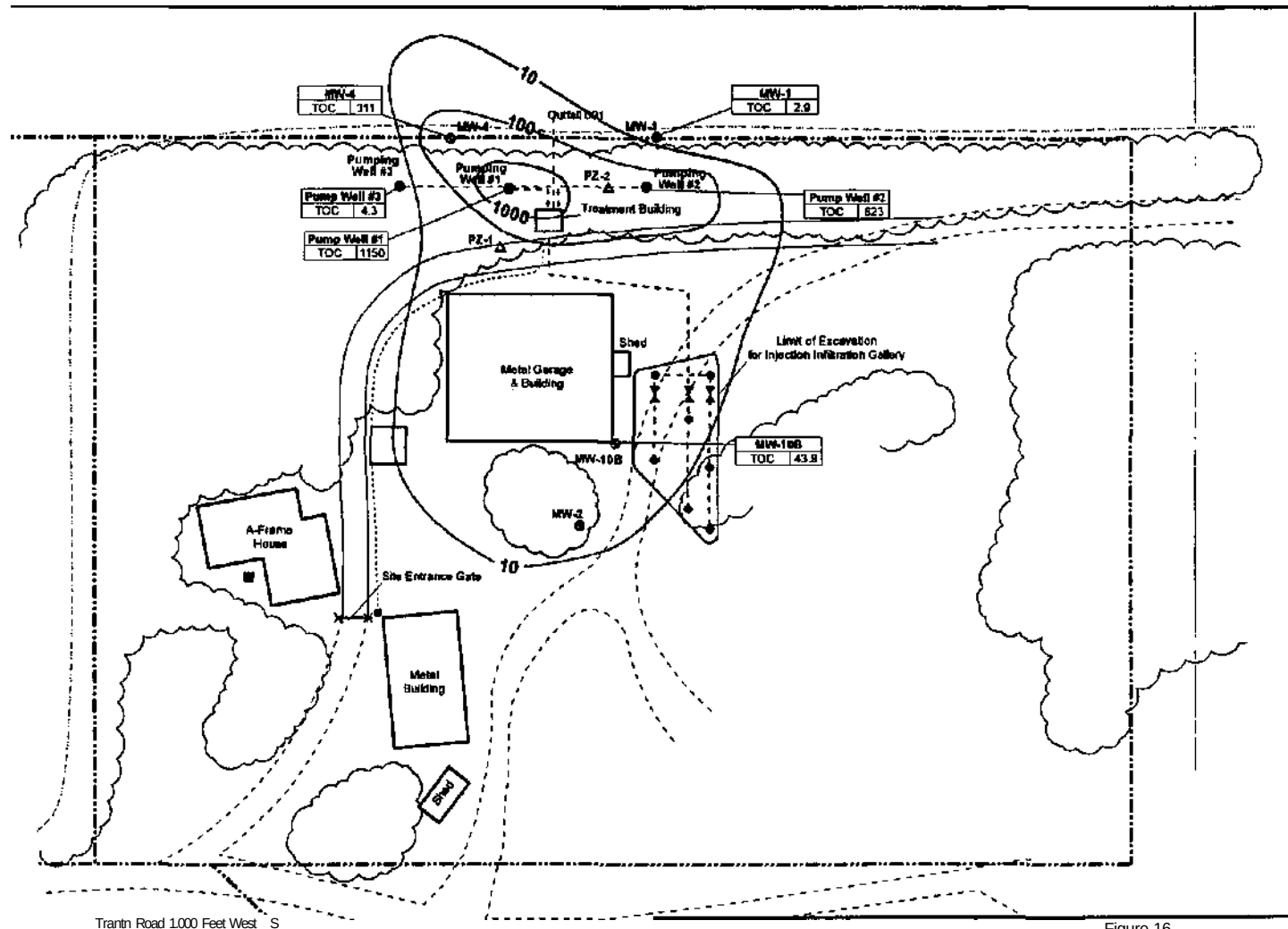
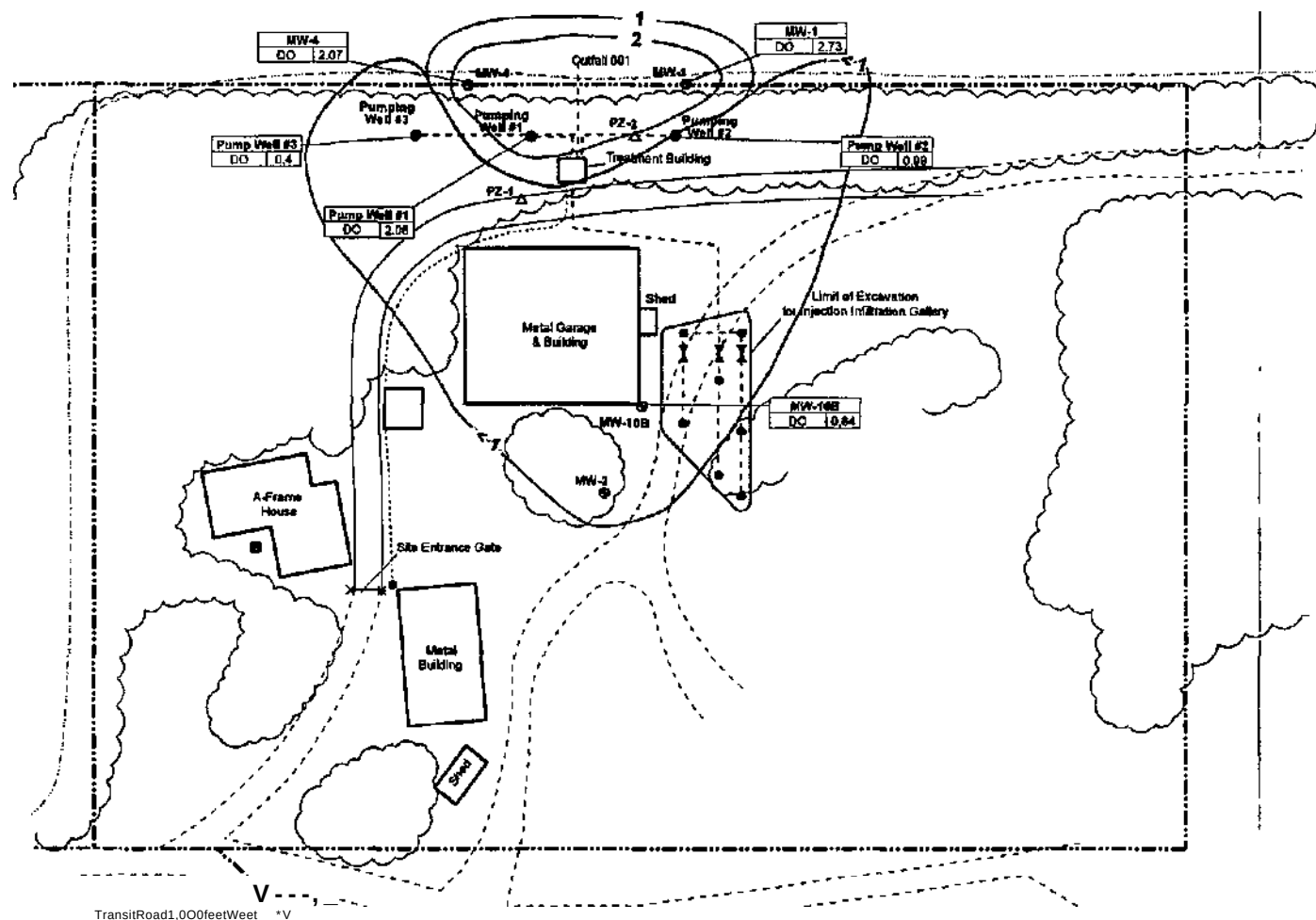
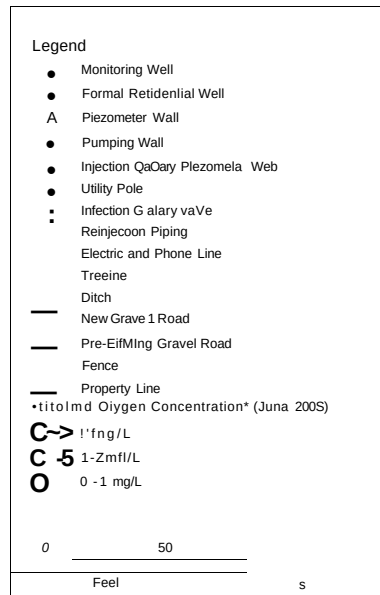


Figure 16
Total Organic Carbon Concentrations
in Groundwater
4th Quarter 2008
Byron Barrel and Drum
Area 2 Site
Byron, New York

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West Chester, PA 19380

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Figure 18
Dissolved Oxygen Concentrations
in Groundwater
2nd Quarter 2008
Byron Barrel and Drum
Area 2 Site
Byron, New York

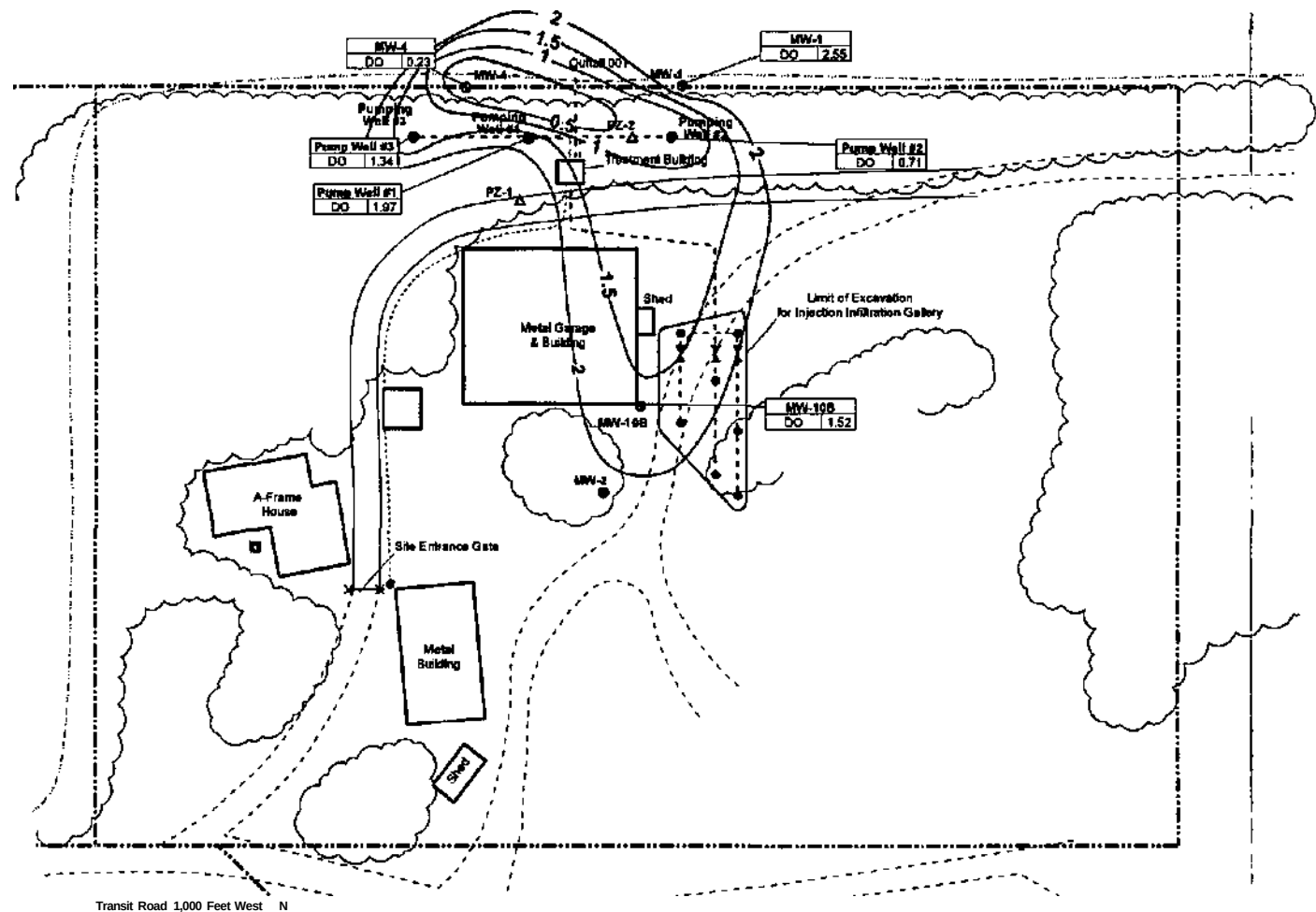
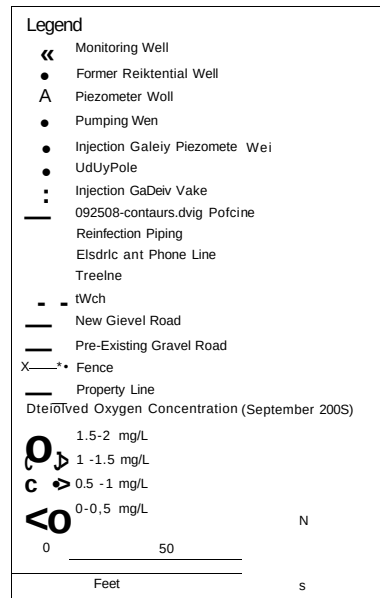


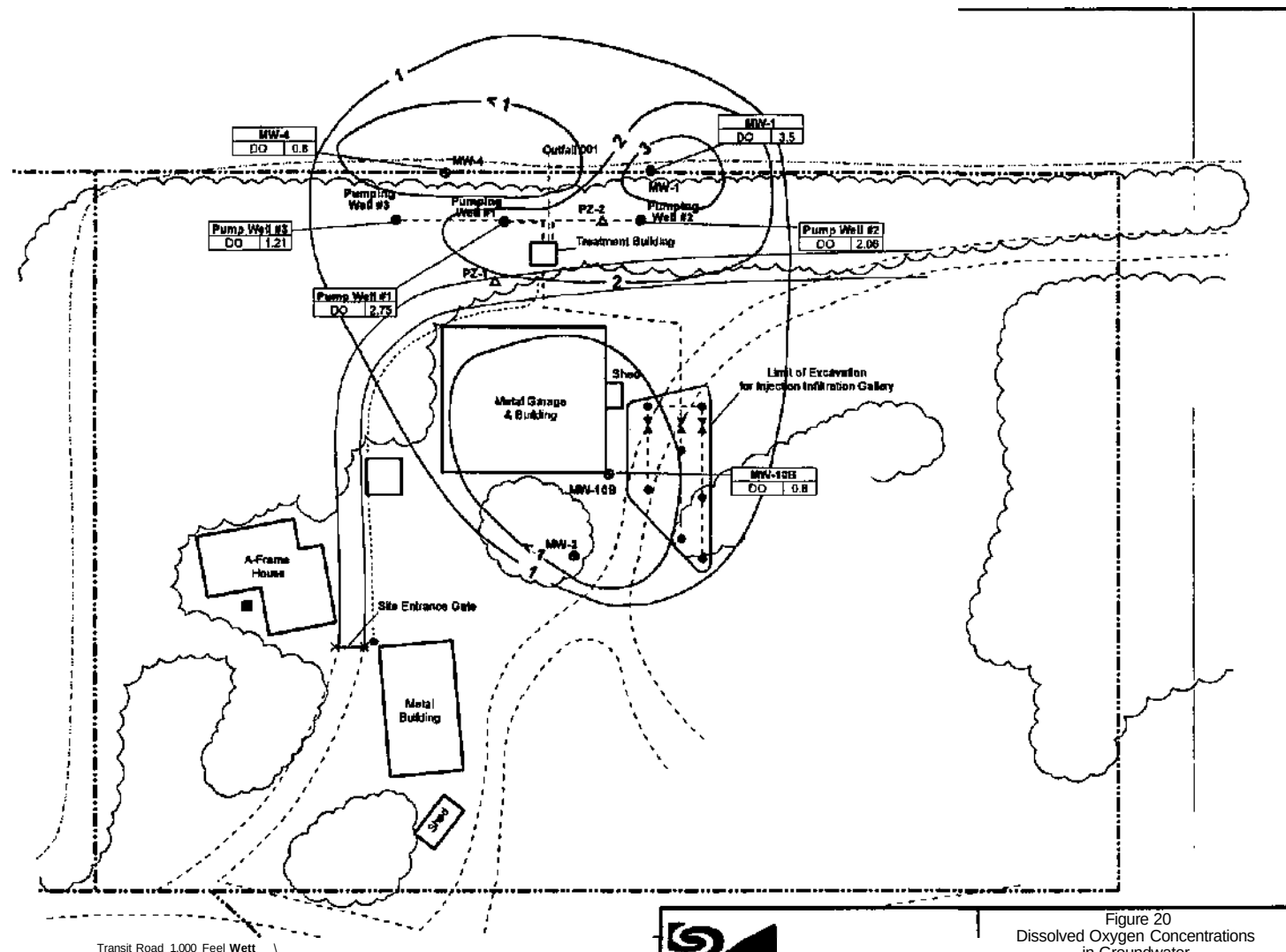
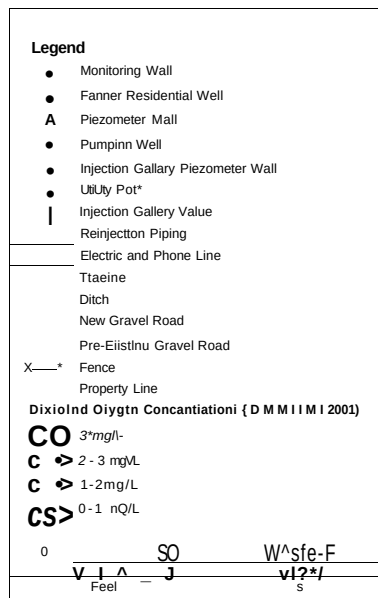
Figure 19
Dissolved Oxygen Concentrations
in Groundwater
3rd Quarter 2008
Byron Barrel and Drum
Area 2 Site
Byron, New York

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West Chester, PA 19380

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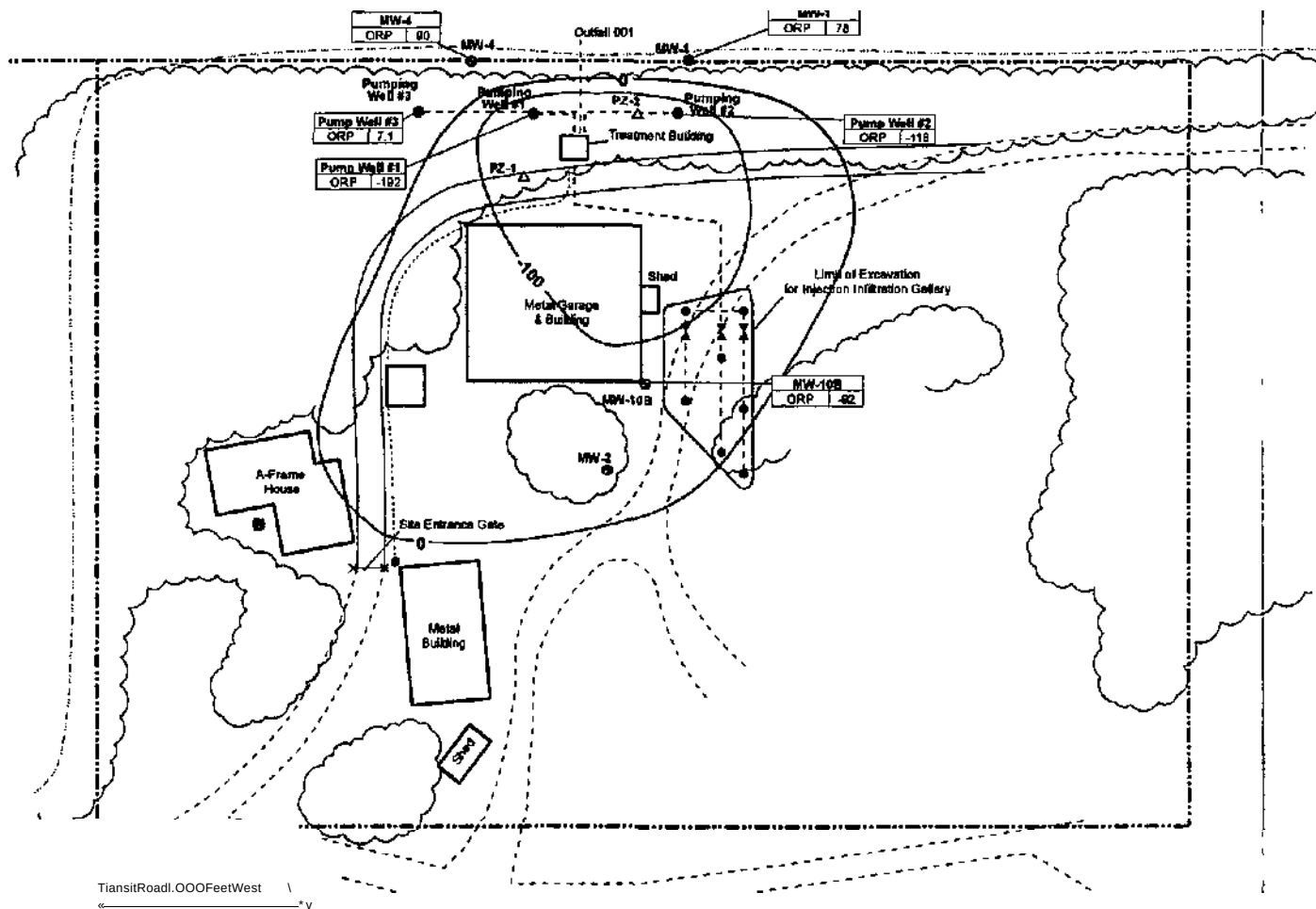
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Legend

- A Monitoring Well
- Fcsmr Retidwital WeO
- A Piezometer Well
- Pumping Well
- Injection Gaiety PlezDmotor WeB
- Utility Poi*
- J Injection GaDery Valve
- Reinjection Piping
- Etetric and Phone Line
- TreeLine
- Ditch
- Now Gravel Road
- Pre-Elisting Gravel Road
- X—M— Fence
- - - - - Property Line
- ORP Measurements (March 2008)
- (^ 5 0 - -100 fntf
- C D -100 * nV

0 50



MW-21
ORP -1.3

TiansitRoadL.000FeetWest

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West Cheslef, PA 19380

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Figure 21
ORP Monitoring
1st Quarter 2008

Byron Barrel and Drum
Area 2 Site
Byron, New York

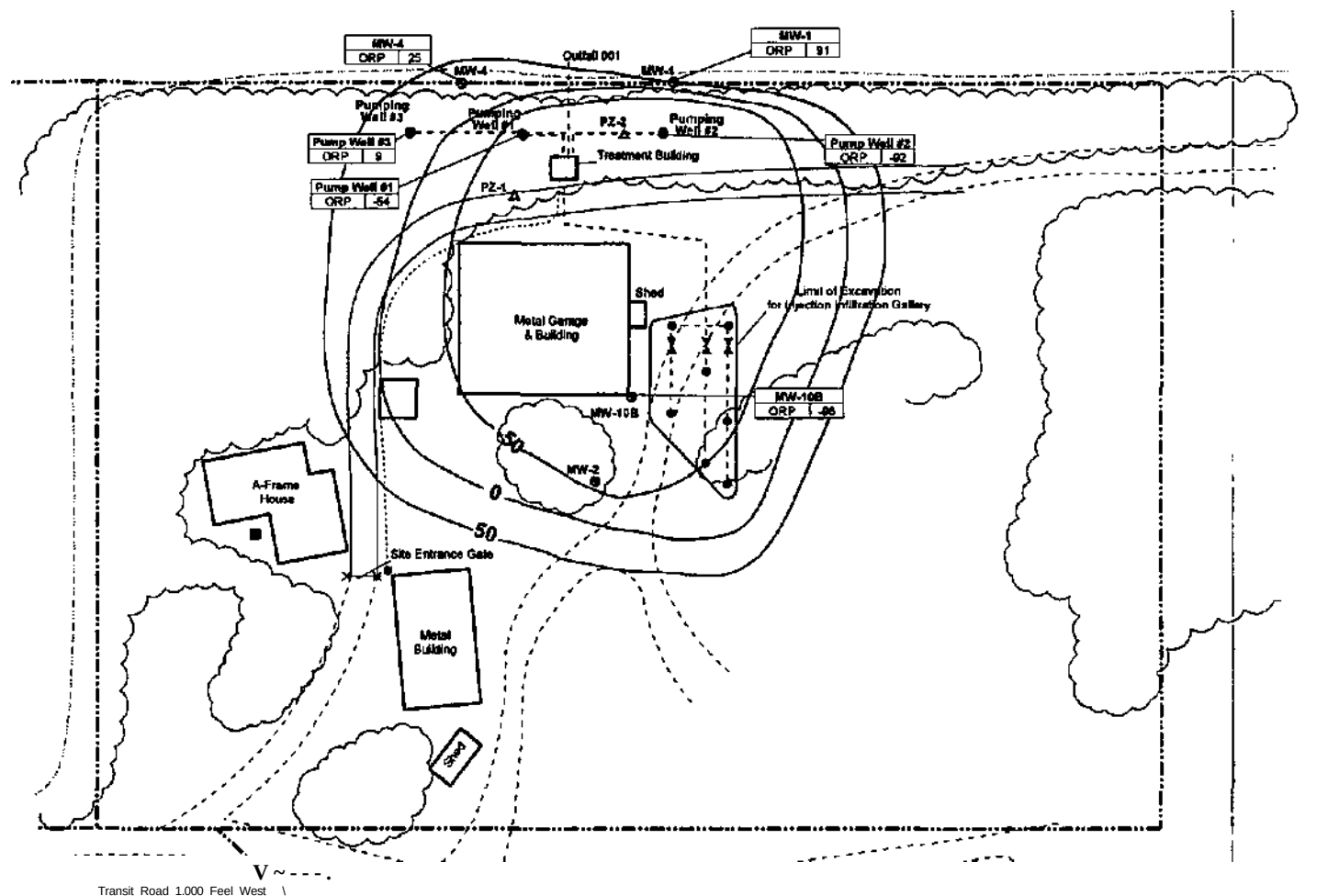
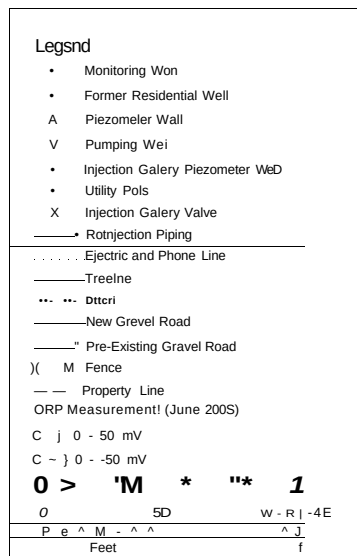


Figure 22
ORP Monitoring
2nd Quarter 2008

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West Chester, PA 19380

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Byron Barrel and Drum
Area 2 Site
Byron, New York

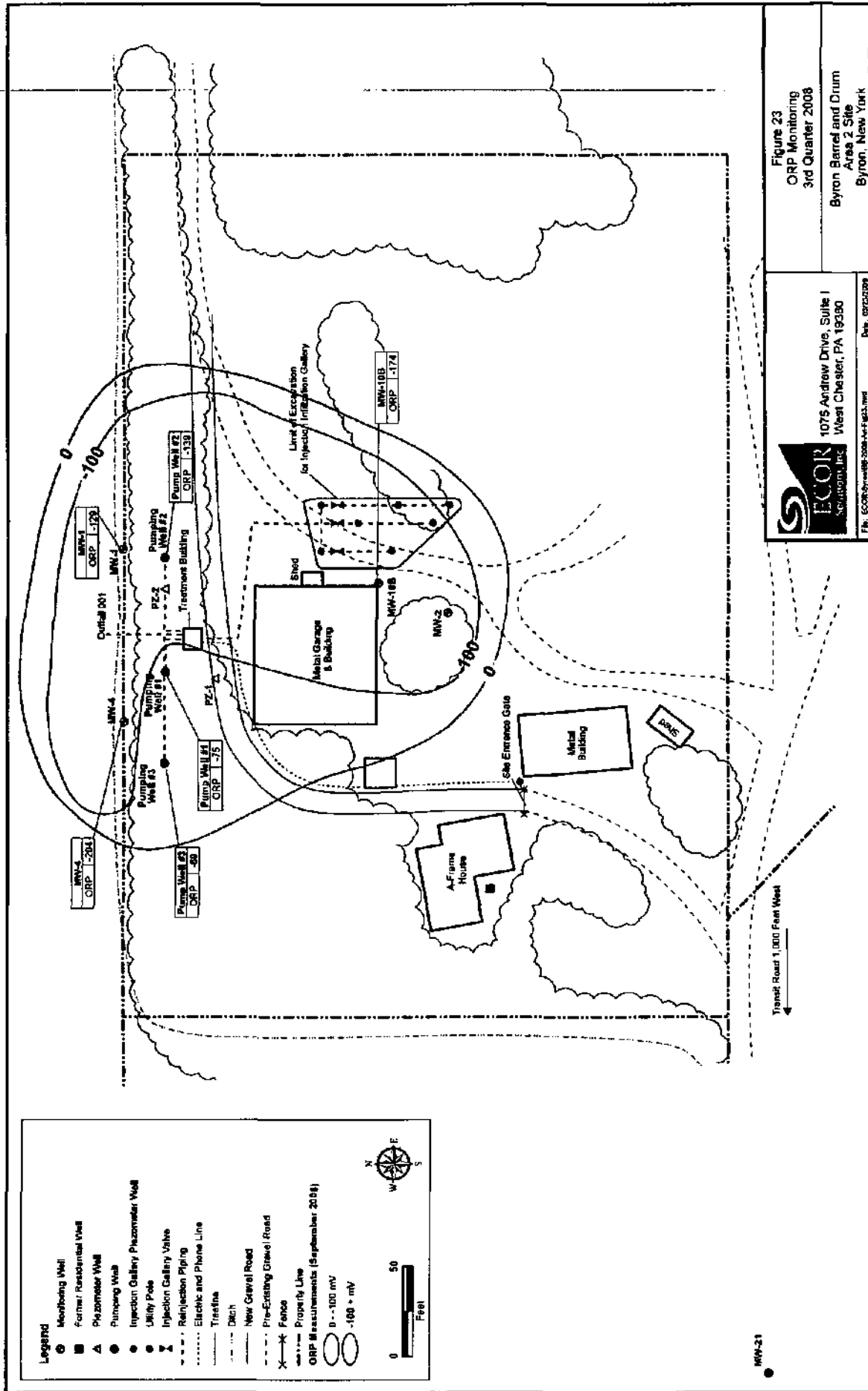
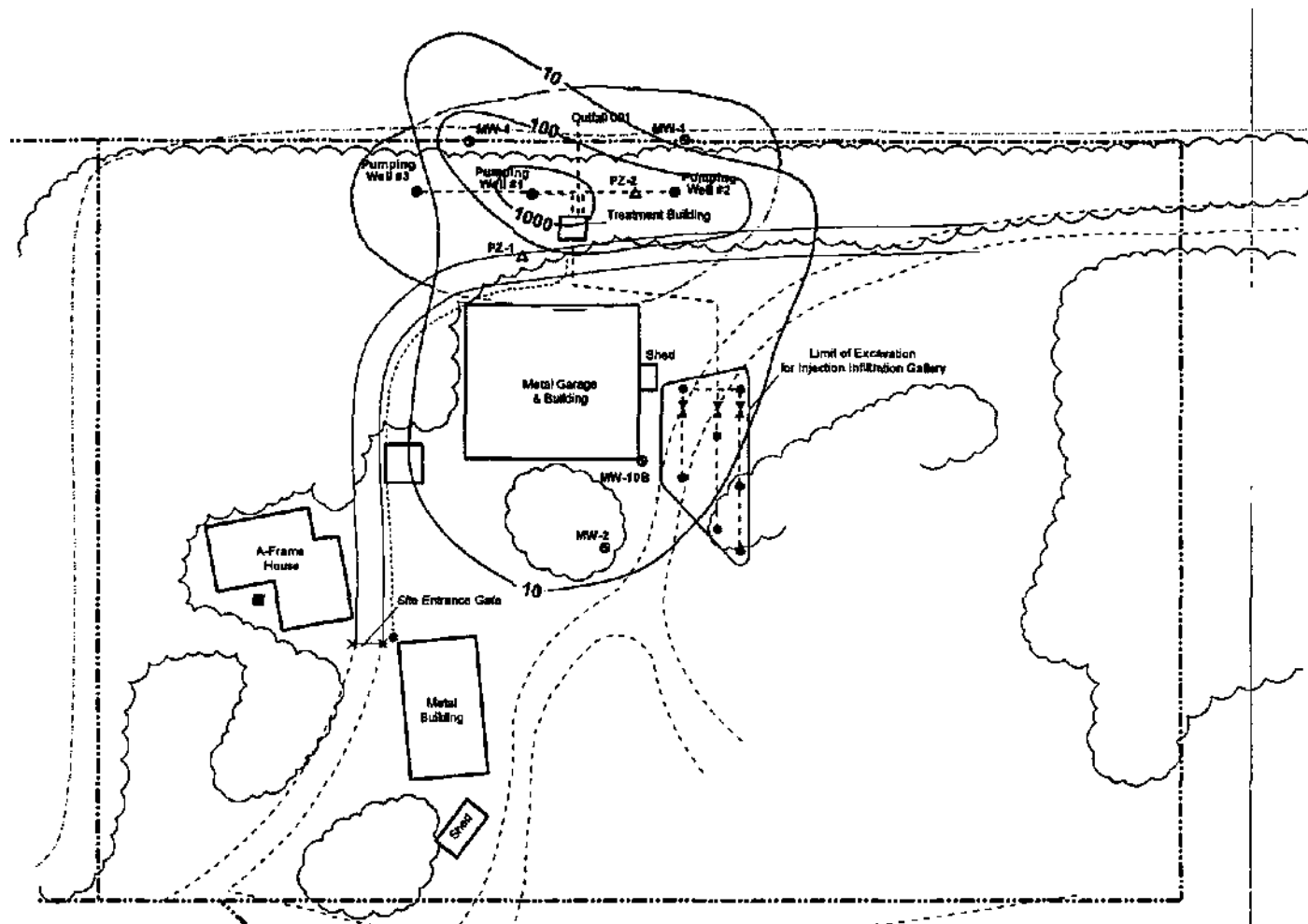
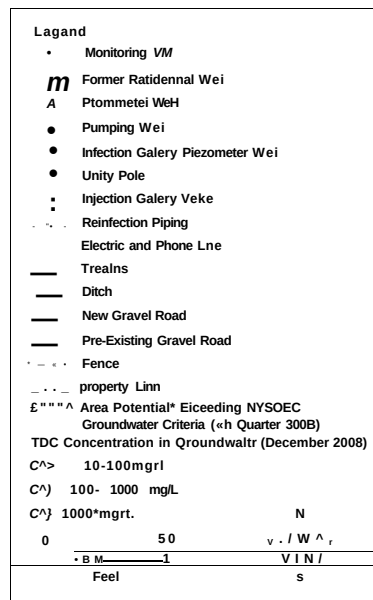


Figure 23
ORP Monitoring
3rd Quarter 2008
Byron Barral and Drum
Area 2 Site
Byron, New York

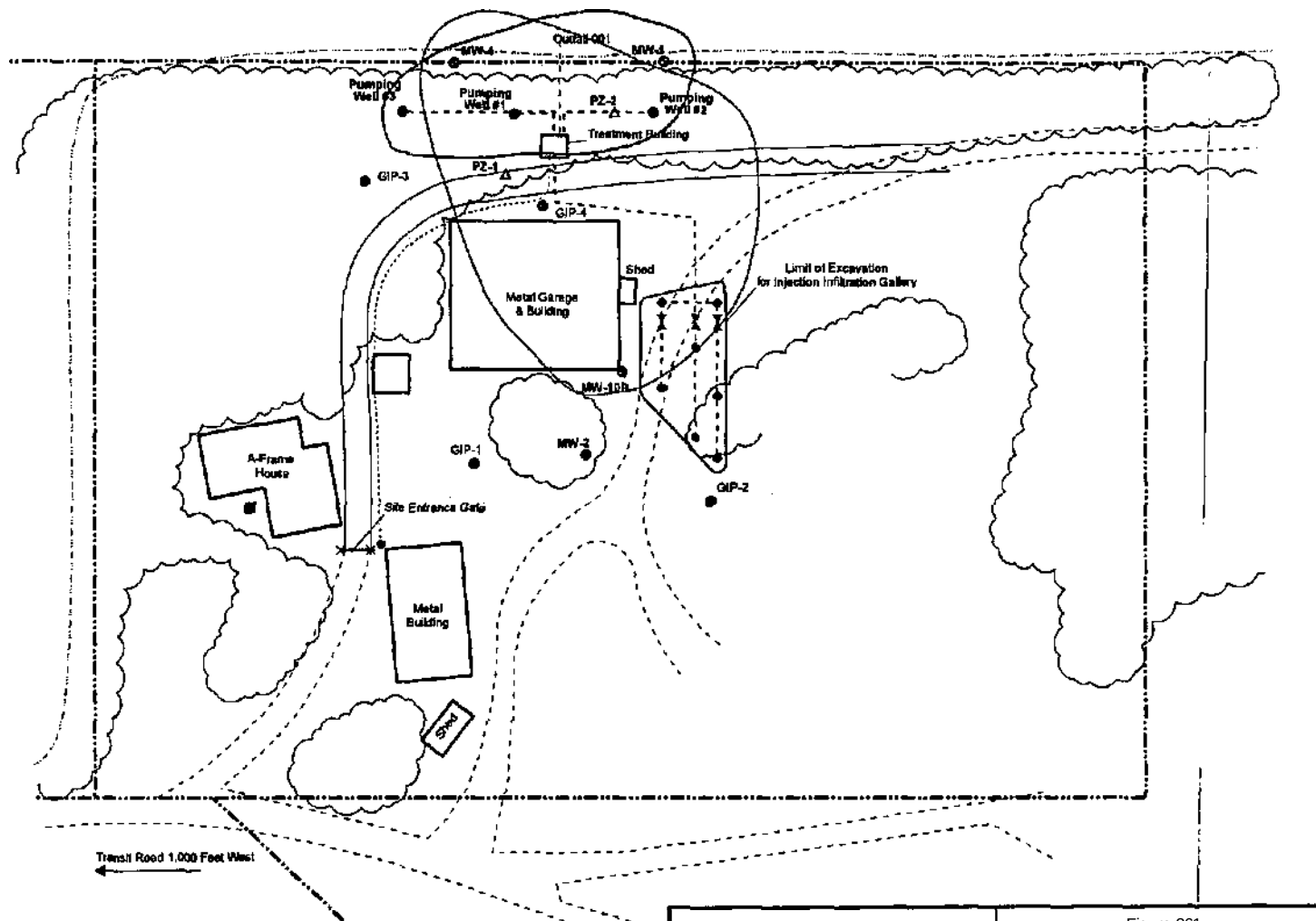
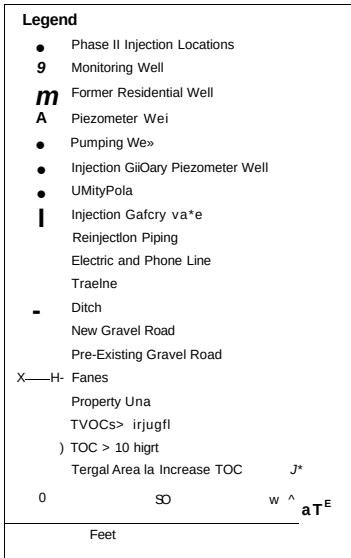


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West Chester, PA 19380

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Figure 25
Area Potentially Exceeding NYSDEC
Groundwater Criteria (2008)
with 4th Quarter 2008 TOC Concentrations
Byron Barrel and Drum
Area 2 Site
Byron, New York



1075 Andrew Drive, Suite I
Westchester, PA 19380

Fk tcoRiBiBowja-laai *** lea-ma M (amnot)

Figure 261
Proposed Phase II
In-Situ Injection Locations
Byron Barrel and Drum
Area 2 Site
Byron, New York

Figure 27
Byron Barrel and Drum Site
Monitoring Well MW-1 Total VOC Trend Analysis

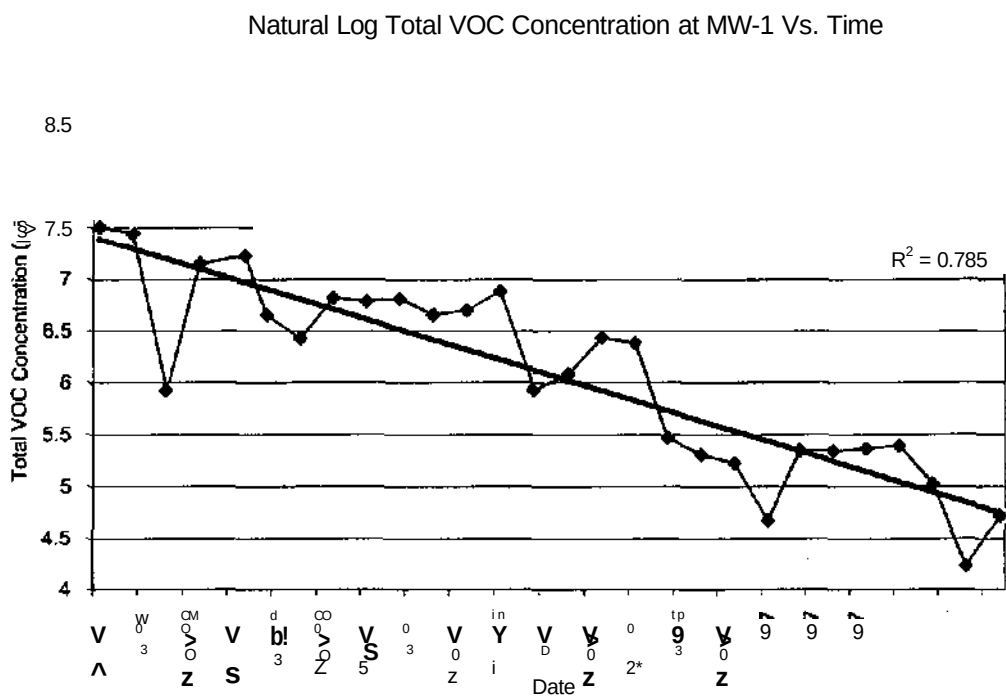
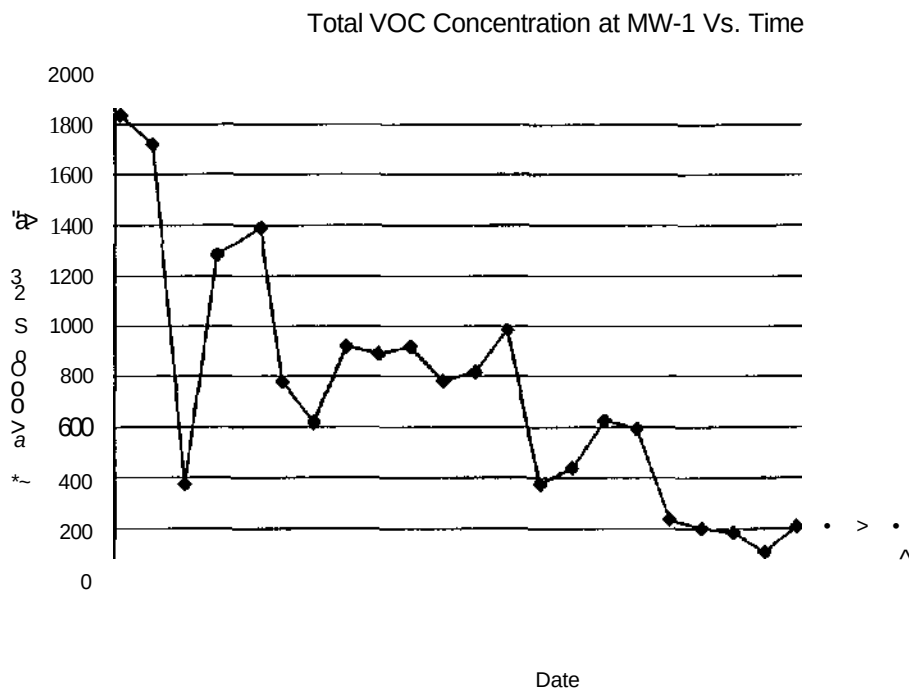


Figure 28
Byron Barrel and Drum Site
Monitoring Well MW-4 Total VOC Trend Analysis

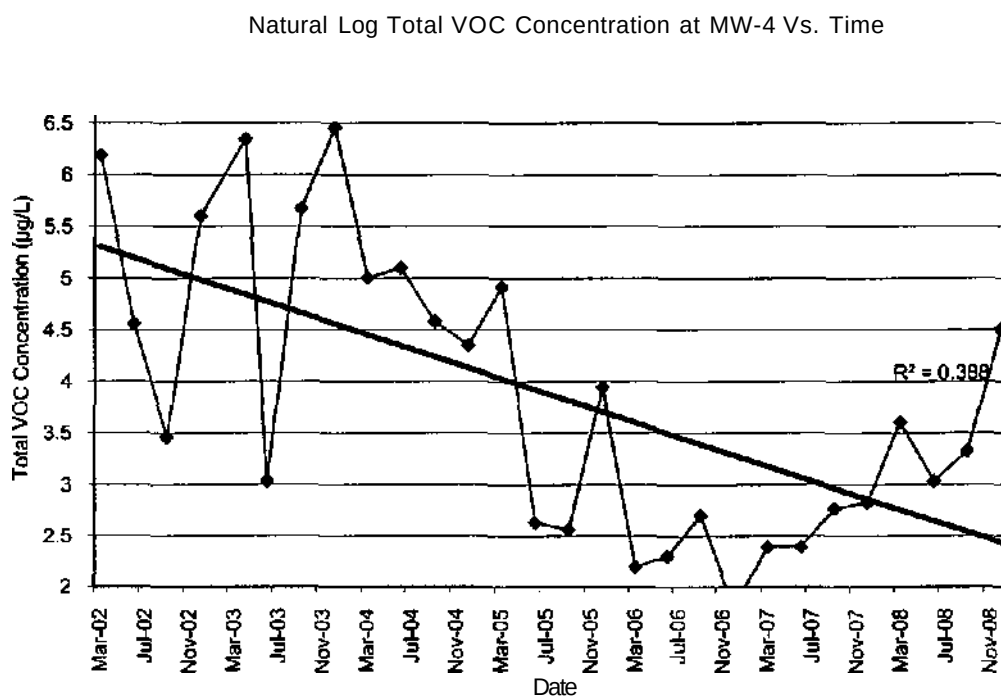
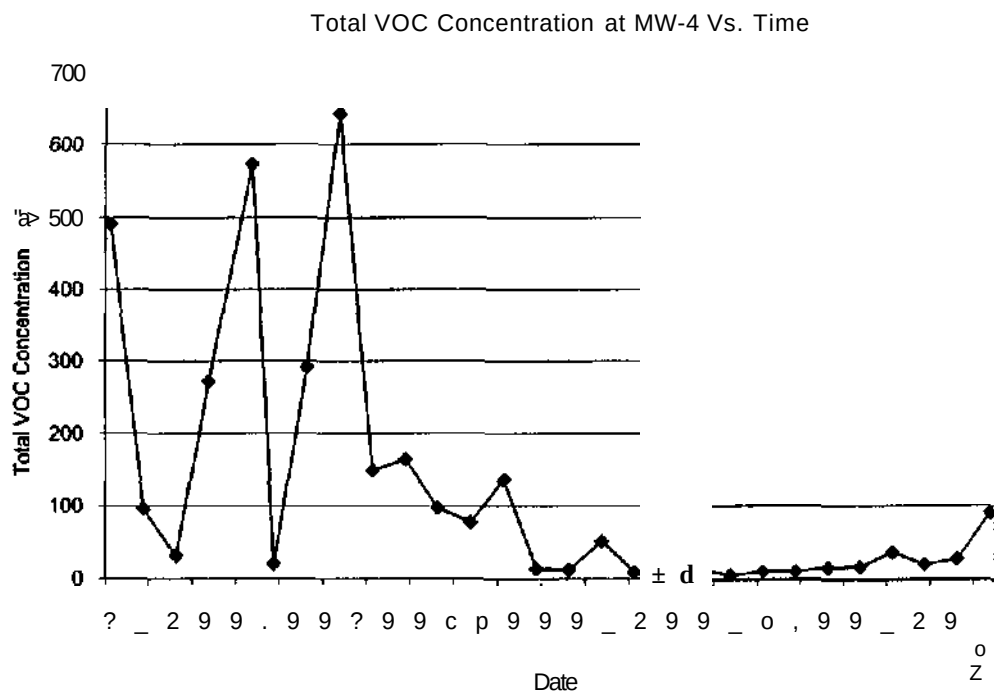


Figure 29
Byron Barrel and Drum Site
Pumping Well PW-1 Total VOC Trend Analysis

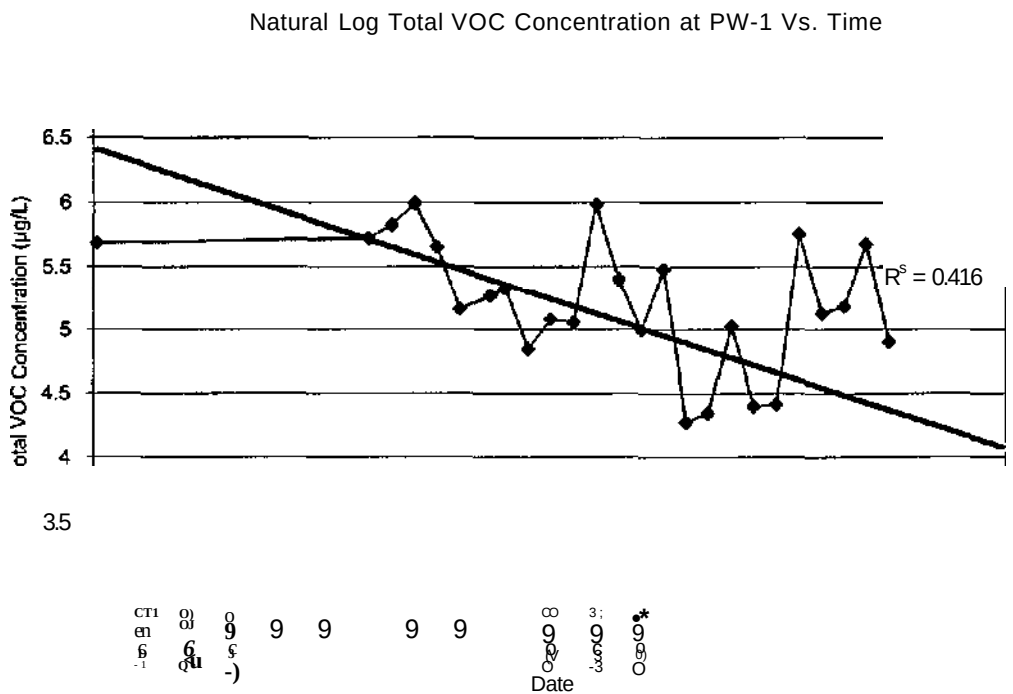
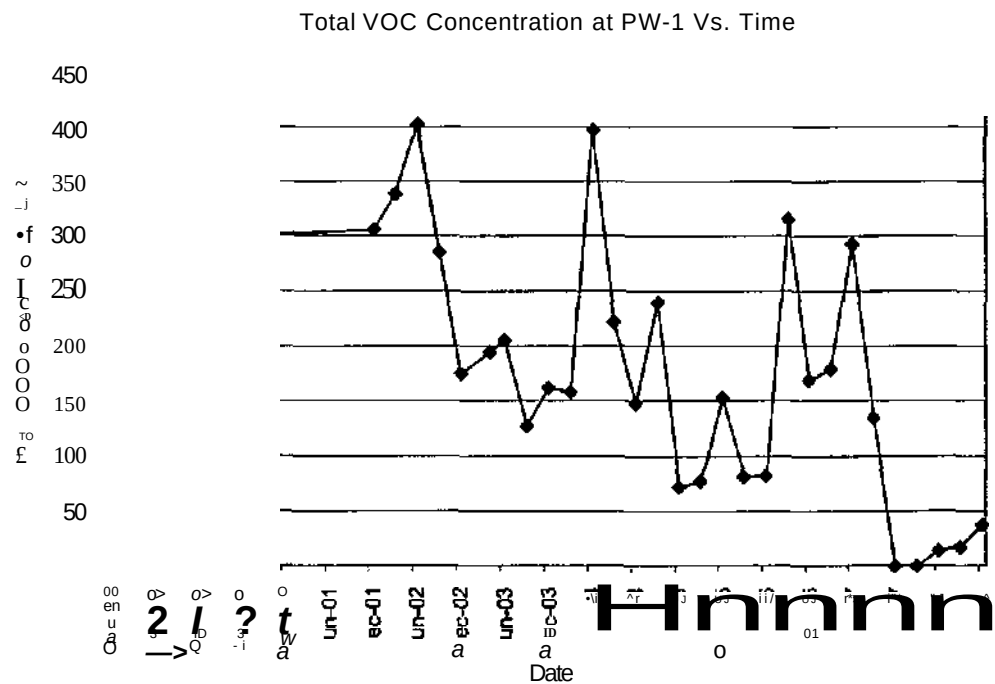
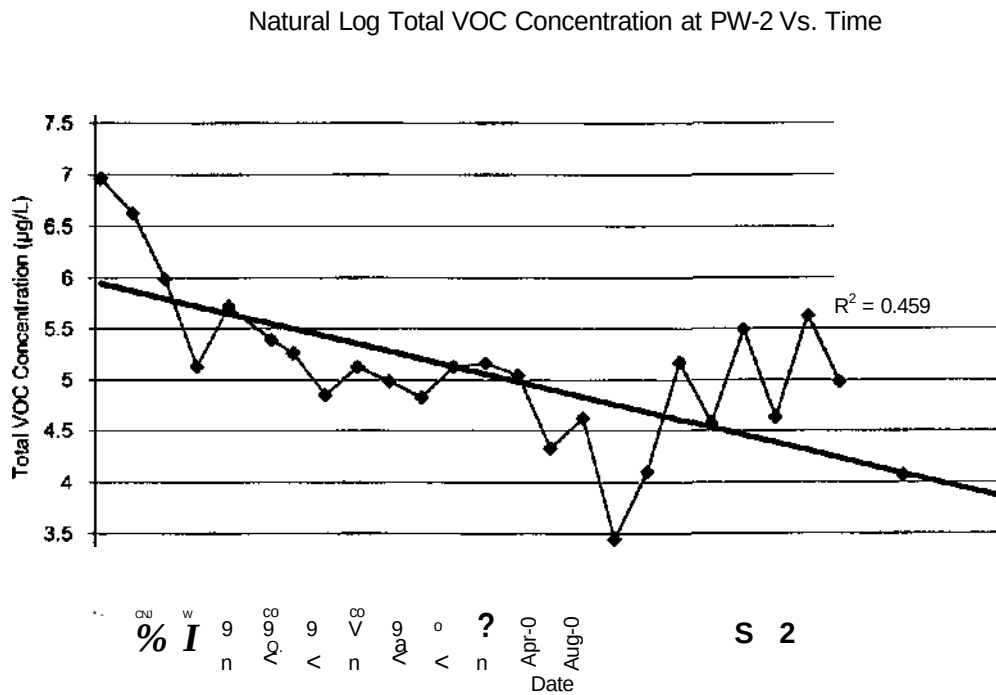
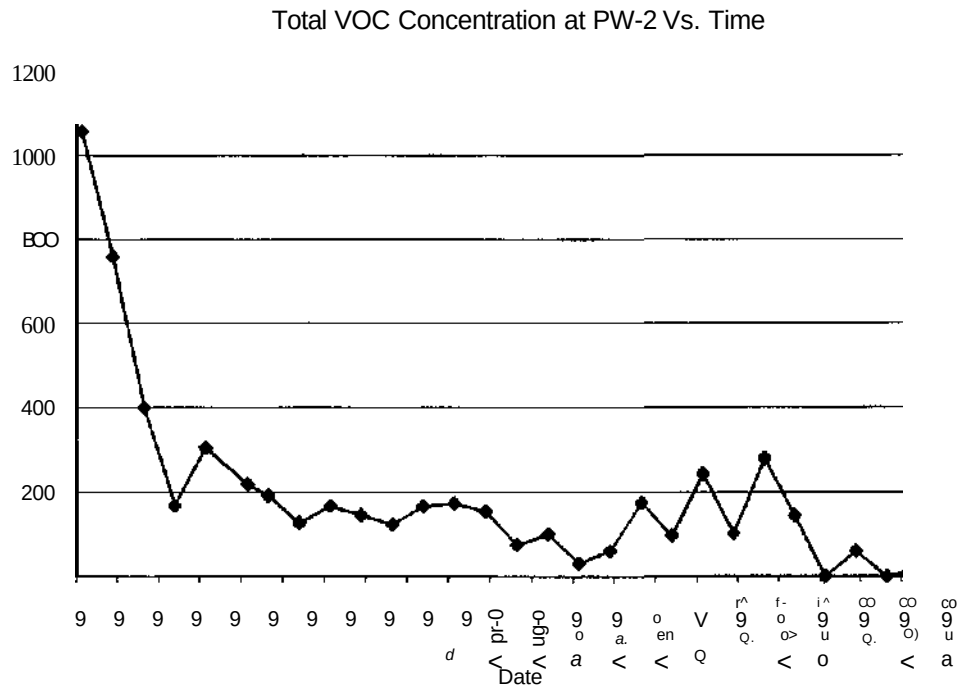


Figure 30
Byron Barrel and Drum Site
Pumping Well PW-2 Total VOC Trend Analysis



The graph displays a single data series with black circular markers connected by a solid black line. The y-axis, labeled with a symbol, has major grid lines at 50, 100, 150, 200, 250, and 300. The x-axis, labeled 'Date', has several unlabeled tick marks. The data points are approximately as follows:

Date (approx.)	Value (approx.)
1	0
2	175
3	210
4	270
5	145
6	0
7	15
8	18
9	15
10	12
11	10

Total VOC Concentration ($\mu\text{g/L}$)

Date

$R^2 = 0.182$

Date	Total VOC Concentration ($\mu\text{g/L}$)
Aug-01	2.9
Sep-01	2.2
Oct-01	1.8
Nov-01	1.4
Dec-01	1.4
Jan-02	1.1
Feb-02	1.1
Mar-02	0.7
Apr-02	1.1
May-02	0.7
Jun-02	0.7
Jul-02	0.7
Aug-02	0.7
Sep-02	0.7
Oct-02	0.7
Nov-02	0.7
Dec-02	0.7
Jan-03	0.7
Feb-03	0.7
Mar-03	0.7
Apr-03	0.7
May-03	0.7
Jun-03	0.7
Jul-03	0.7
Aug-03	0.7
Sep-03	0.7
Oct-03	0.7
Nov-03	0.7
Dec-03	0.7
Jan-04	0.7
Feb-04	0.7
Mar-04	0.7
Apr-04	0.7
May-04	0.7
Jun-04	0.7
Jul-04	0.7
Aug-04	0.7
Sep-04	0.7
Oct-04	0.7
Nov-04	0.7
Dec-04	0.7
Jan-05	0.7
Feb-05	0.7
Mar-05	0.7
Apr-05	0.7
May-05	0.7
Jun-05	0.7
Jul-05	0.7
Aug-05	0.7
Sep-05	0.7
Oct-05	0.7
Nov-05	0.7
Dec-05	0.7
Jan-06	0.7
Feb-06	0.7
Mar-06	0.7
Apr-06	0.7
May-06	0.7
Jun-06	0.7

APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater. Elevations

Operator: y ^ M ^,///<g

Date: /2-/J~o6

	TOC	GW		
<u>Pumping Wells</u>	<u>PTW</u>	<u>Elevation</u>	<u>Elevation</u>	<u>ft</u>
PW-1	7. if	642.82	fsy. ?/	m
PW-2	7*31	64134	(3*K	m
PW-3	£°y	641.11	{&*<*	.

<u>Monitoring Wells</u>					
MW-1		639.63	/•jy. tf	ii-ty	£?s
MW-2	1121	646.36	&&*S	JS.to	3*4
MW-4	3.tt	638.56	fW-9f	(tj&	7 SI
MW-10B	%3Y	644.44	£Jf, to	SL*.V	lUl
MW-21	7,7\$	642.52	av^H	2.7,W	3o.»1
Residential	iS-83	650.78	CiY***	3S:/1	il-3f

<u>Piezometers</u>					
PZ-1	7/^*	643.11	&*>\$*	ZLoZ	l<v.s*
PZ-2	C3Z.	642.39	C7t,e1	^ 7, zr	&.13

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum

Date: /•?-/*-''*

Job #: 01501.002

Sample ID: /***-? // A ^ . 3 5

Well ID: /**«*'' 1

Time onsite: Time Offsite:

Samplers: f£/?<L

Depth of Well (from top of casing) y/*->'

Time: //*3

Static water level (from top of casing) y.''*>

Time: c *co

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/mln) / purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
0*1°	3& /***->». **>	y.f	- 31	7.1 JT	0-f	HO	7 > >
CVS	i 1	y.t	~Jf	7-7^	O.IT	7->i	I\$o
6\$*&		i/i	-90	7.?<	<*~r	jn	Ido
oizj''		*c	-92.	7.7c	OS''	77J	ISO
Of 3°		*j<r	-yj	7-7<	o,r	i . r i	ISf
\$13^	J	f-Y	-H3	1.71	or	j.cro	If2~

Sampling:Time of Sample Gollectio /•^> *Collection Method:*X Dedicated pump*Analyses:*

X VOCs

Analytical Method:

8260 X 503 Other

Observations:Weather/Temperature: g-A-/ 3- ^

Sample Description:

Free Product? Yes No &^ Descript.:Sheen? ' Yes No 'K Descript:Odor? Yes No ^ Descript:**Comments:**

ECOR Solutions, Inc.
Byron Barret & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum

Date: JU-JI-V

Job #: 01501.002

Sample ID: AW - y~ <? /q ^-2e

Well ID: /WM^-V

Time onsite: Time Offsite:
t23X

Samplers: /7 \$/

Depth of Well (from top of casing) //y?

Static water level (from top of casing) *3./>t Time: #**

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmln) / purge volume (mi)	Temp. °C	ORP mV	PH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
<7r*	*/0*u./***>	^ 3	-JT7	7.y>~	h°	/•7 J"	I <>~'?o
qsf		S">1	,±3	?.rv	t.i;	/,c£	)£&o
fcPV		sn	^ i	-y.^/y	h*	0*16	li>so
toof		£T.L	*6Y	i-r?	/. o	0.**	l&7&
tow		s.t	-&r	7-v?	h*	o<B*	f(, 1 a
lot?	\ /	- O	.t?	i.yt	l-o	#.€&	l&8»

Sampling:

Time of Sample Collection: jot >'

Collection Method:

Analyses:

Analytical h

X Dedicated pump

X VOCs

8260

Observations:

Weather/Temperature: ch»J 3 * J

Sample Description: ci**~

Free Product?

Yes

No

>i

Descript.:

Sheen?

Yes

No

<

Descript.:

Odor?

Yes

No

A

Descript.:

Comments:

yOC /?o/ TSK

Time	Flowrate (mUmin) / purge volume (ml)		Temp. °C	ORP mV	pH 3td. Units	TDS 9/L	DO mg/L	Spec. Cond. mS/cm
IZif	*/***."«/>n*v.		r.X	-1°	8-«	0 - ^	/. n	7 f A
IX)°			a	-i¥	\$-3t	<i>o.f</i>	<i>l.o*></i>	-7U
ixif			£.2	~lt	g-37	4>X	6.b"	77/
iiio			CS	-77	&~lo	os*	<i>0. to</i>	77Z
i*if			C^b°	-T?	<i>g-7»</i>	<i>o^</i>	<i>o.\$3</i>	<i>->lo</i>
&&		>/	<i>C-i</i>	- 7 ^	8-&	&x	<i>eJo</i>	17°

Sampling:Time of Sample Collection I3S«

Collection Method:

X Dedicated pump

Analyses:

X- VOCs

Analytical Method:

8260 X 503 Other:**Observations:**

Weather/Temperature:

Sample Description: Free Product? Yes No K Descript.:Sheen? Yes No ^ Descript.:Odor? Yes No c^ Descript.:**Comments:**AnJ&/^ U6\$

ECOR Solutions, Inc.
Byron Barrel & Drum Srto
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
PW-1/GW^ag	13Z0	<u	-H	1-31	M	3.7J-	37*6
PW-2/GW 3.\$	1*0°	B-1	-W	1^3	i-i	2 . * '	Za/0
PW-3/GW <2 *	I too	\$A	-77	7.03	OS	/ . * /	2A#*

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

APPENDIX B
Data Validation Report

Project Byron Barrel and Drum Site
Laboratory: Test America
Sample ID: T~A08-F735
Fraction: Organic
Matrix: Aqueous
Report Date: 3/15/2009

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Test America.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

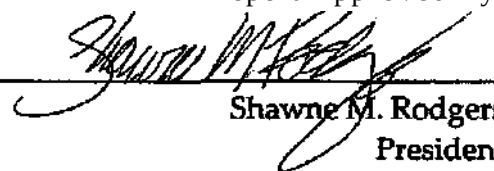
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP **HW-24**, Revision 1, June 1999. The parameters presented on the following page were evaluated.

- X Data Completeness
- X Chain of Custody Documentation
- X Holding Times
- X Instrument Performance
- X Initial and Continuing Calibrations
- X Laboratory and Field Blank Analysis Results
- X Surrogate Compound Recoveries
- X Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
- X Field Duplicate Analysis Results
- X Laboratory Control Sample Results
- X Internal Standard Performance
- X Qualitative Identification
- X Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:


Shawne M. Rodgers
President

3/15/2009

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

The holding times were met for all analyses.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

AH criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples MW-4-9/GW-28 and DUP-9/GW-28 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. Results for the duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty percent for volatile detected compounds to evaluate aqueous field duplicate samples.

20.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTTTATION/REPORTING LIMITS*

The following samples were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target

compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected.-The elevated quantitation limits should be noted-when_____ assessing the data for these samples.

Sample	Dilution Factor
MW-4-9/GW-28	4.0
DUP-9/GW-28	4.0
PW-2/GW-28	10.0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs)/ have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition. Promulgated Updates H HA, and m, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

Table 1 Samples For Data Validation Review
Groundwater Sampling December 2008
Byron Site Groundwater Monitoring
Byron Township, New York
Test America Sample Delivery Group A08-F735

SAMPLE LD.	LABORATORY LD	DATE COLLECTED	MATRIX	ANALYSES PERFORMED	
				VOC1	TSS
MW-1-9/GW-28	A8P73501	12/11/2008	Groundwater	X	
MW-4-9/GW-28	A8F73502	12/11/2008	Groundwater	X	
MW-10B-9/GW-28	A8F73503	12/11/2008	Groundwater	X	
DUP-9/GW-28	A8F73504	12/11/2008	Groundwater	X	
PW-1/GW-28	A8F73505	12/11/2008	Groundwater	X	
PW-2/GW-28	A8F73506	12/11/2008	Groundwater	X	
PW-3/GW-28	A8F73507	12/11/2008	Groundwater	X	
TRIP BLANK	A8F73508	12/11/2008	Trip Blank	X	

VOC1 Volatile Organic Compounds Select List-Table 5

VOC2 Volatile Organic Compounds Select list -8 Compounds

TSS Total Suspended Solids

BCCR SCUTEKWS
ECXR SLOLTONS
AQKJUS ASP 2000/8260 - SELECT LL5MSHLB 5
ANALYSIS DATA-&*m

14/211

Client No.

DUP-9/GW-28

lab Name: TestAroerire 7*>^,tories Inc. Ctantract:

lab CDde: KBCNY Case No.: _____ SAS No.: _____ SDGND.:

Matrix: (soil/water) WATER lab Sample ID: ABF73504

Sample wt/vol: 5.00 (g/mL) ML lab File ID: S2977.KR

Level: (low/med) IDW Date Sanp/Recv: 12/11/2008 12/11/2008

% Moisture: not dec. _____ Heated Purge: N. Date Analyzed: 12/13/2008

GC Column: ZB-624 ID: 0.1B (mm) Dilution Factor: 4.00

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

COKHnRATTON UNITS:

CAS NO.	CEMPODND	(ug/L or ug/Kcf)	P5/L	Q
75-34-3	1A-Dichloroethane	37		
75-35-4	1,1-Dichloroethene	20		U
75-09-2	Methylene chloride	20		0
108-88-3	Toluene	20		U
71-55-6	1aA-Trichloroethane	52		
		5		J
75-01-4	Vinyl chloride	20		U
71-43-2	Benzene	20		U
1330-20-7	Total Xylenes	60		U
108-90-7	Crdarobenzene	20		U
79-00-5	1A,2-Trichlaroethane	20		U
107-06-2	1,2-Dichloroethane	20		u
127-18-4	TBtradaloroethene	20		u
67-66-3	Chloroform	20		u
		20		u
75-27-4	BremMiclhorcniethane	20		u
124-48-1	ItihrCTrDchloranethane	20		u
78-93-3	2-Butanone	40		u
56-23-5	Carbon Tetrachloride	20		D
95-50-1	1,2-Dichlorobenzene	3		J
106-46-7	1,4-Dichlorobenzene	3		J

Signature
6/15/2009

15/211

BOOR samncNS
EOT. SOLUTIONS
AQUEEOS ASP 2000/8260 - SELECT LIST-THBLE S
— jfl^jfgjg EftJA SHEET — — —

Client No.

MM-9/GW-28

lab Name: Testftnerica Laboratories Inc. Contract:

Lab Code: REQ2 Case No.: _____ SAS No.: _____ SDGNo.: _____

Matrix: (soil/water) WA1BI Lab Sample ID: A8E73501Sample wt/vol: 5.00 (g/mL) ML Lab File ID: • 52986.RRLevel: (low/med) LCW Date Sarqp/Recv: 12/11/2008 12/11/2008% Moisture: not dec. _____ Heated Purge: N. Pate Analyzed: 12/13/2008GC CDluma: ZB-624 ID: 0.18 (m) Dilution Factor: 1.00

Soil Extract Volute: _____ <uL) Soil Aliquot Volume: ' (uL)

CCNCENISATICK IHTTS:

CAS NO.	CCMPCOND	(ug/L or ug/Kg)	PG/L	Q
75-34-3	1,1-Dichloroethane	55		
75-35-4	1,1-Dichloroethene	2		J
75-09-2	Methylene chloride	5		U
108-88-3	Toluene	5		u
71-55-6	1,1,1-Trichloroethane	54		
79-01-6	1,1,2-Trichloroethene	2		J
75-01-4	Vinyl chloride	5		u
71-43-2	Benzene	5		u
1330-20-7	Total Xylenes	15		u
108-90-7	Oilarobenzene	5		u
79-00-5	1,1,2-Trichloroethane	5		u
107-06-2	1,2-Dichloroethane	5		u.
127-18-4	Tetxarhl oroethene	5		0
67-66-3	Chloroform	5		u
75-27-4	BronDbichlctramethane	5		V
124-48-1	Dibrcmochlarametiiane	5		u
78-93-3	2-Butanone	10		u
56-2V5	rfcrrm TW-rachlorirle	5		u
95-50-1	1,2-Bdchlarobenzene	5		u
106-46-7	^1,4-DicliLarribenzene	5		u

SM
3/15/2009

16/211

BOCR SCOTnCWS
EGGR SQU7TICNS
AQOBXG ASP 2000/8260 - SELECT LIST-OHBIE 5
____ANAUffilS-mEft-SHEET____

Client Mb

WW-1CB-9/OT-28

lab Name: Testffmerica. laboratories Inc. Cfcntract:lab Cbde: RECNY Case No.: _____ SAS No.: _____ SDG Nb.: _____

frfatrix: (soil/vater) wyraq

Lab Sample ID: A8F73503Sample wt/vol: 5.00 (g/mL) £&Lab File ID: S2974.RR

Level: (low/ned) ICW

Date Samp/Recv: 12/11/2008 12/U./2Q08

% Moisture: not dec. _____ Heated Purge: U

Date Analyzed: 12/13/2008GC Column: ZB-624 ID: 0.1B (ran)Dilution Factor: 1.00

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CCNCENIRKEICN UNHS:

CRS NO.	CCMPCQND	(ug/L or ug/Rg)	UG/L
75-34-3	1, 1-rdchloroethane	0.8	J
75-35-4	1,1-Dicnlorcetihene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Xrichloroethane	2	J
79-01-6	Trichlcroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Sbtal Xylenes	15	U
108-90-7	Chlcaxtoenzene	5	U
79-00-5	ia/2-lrichloroethane	5	U
107-06-2	l,2-mchloroethane	5	U
127-18-4	Tetxachloroetiene	5	U
67-66-3	Chloroform	5	U
75-27-4	Brcmc<lu^c«rcmefhane	5	U
124-48-1	DihrcmocihlnrcmBthane	5	U
78-93-3	2~Butancne	10	U
56-23-5	Cfcfbnn T^trachloridR	5	U
95-50-1	1,2-Dichlcrobenzene	5	0
106-46-7	l,4-Dichloroben2ene	5	U

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17/211

ECDR SXUnCNS
 ECDR SOLUTIONS
 AQUFJXB ASP 2000/8260 - SELECT LIST-TABLE 5
 . - _____ANALYSIS_DATA..SHEEr_____

Client No.

Mff-4-9/GW-28

lab Name: TestAmerica laboratories Inc. Contract:

lab Code: RECNY Case No.: SAS No.: SDGNo.:

ffetrix: (soil/vater) WATERlab Sample ID: A8F73502Sample wt/vol: 5.00 (g/mL) 14LLab File ID: S2973.KRLevel: (low/med) ICWEate Sanp/Recv: 12/11/2008 12/11/2008

% Moisture: not dec. _____ Heated Purge: N.

Date Analyzed: 12/13/2008GC Column: ZB-624 ID: 0.18 (mm)Dilution Factor: 4.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: " (uL)

CONCENTRATION UNITS:

CASIO.	COMPOUND	(ug/L or ug/Kg)	US/L	Q
75-34-3	1,1-Ddchlaroethane	37		
75-35-4	1,1-Dichlcroethene	20		tJ
75-09-2	Methylene -cnloride	20		U
108-88-3	Toluene	20		u
71-55-6	1,ia-Trichlcroethane	49		
79-01-6	Tri<^orcethene	5		J
75-01-4	Vinyl chloride	20		u
71-43-2	Benzene	20		u
1330-20-7	Total Xylenes	60		u
108-90-7	Chlorobenzene	20		u
79-00-5	1,2-Trichloroethane	20		u
107-06-2	1,2-Dic+iloroetbane	20		u
127-18-4	Tetrachloroethene	20		u
67-66-3	Chloroform	20		u
75-27-4	Braroaichlorcirethane	20		u
124-48-1	Dolsrancchloromethane	20		u
78-93-3	2-Butanone	40		u
56-23-5	Carbon Tetrachloride	20		u
95-50-1	1,2-Dichlorobenzene	20		u
106-46-7	1,4-DicMorobenzene	20		u

ECER *saunas*
 ECEK. SOLUTICNS
 AQUEOUS ASP 2000/8260 - SELECT KEST - 8 CMEDS
 ANALYSIS DKTA SHEET

18/211

Client NO.

IW-I/GW-28

Lab Nams: TestAmerica laboratories Inc. Ocotract:

Lab Code: RBQW Case No.: _____ SAS No.: _____ SDGNb.: _____

J&trix: (soil/water) WKIER

Lab Sample ID: A8F73505

Sample wt/vol: 5.00 (g/iriL) EL.

lab File ID: S2994.RR

Level: (lew/med) LCff

Date Sarap/Recv: 12/11/200B 12/11/2008

% Moisture: rot dec. _____ ' Heated Purge: N

Date Analyzed: 12/14/2008

GC Colunn: ZB-624 ID: 0.1B (nni)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ <uL)

CCTCBtXATICN UNITS;

CAS NO.	CEMPCXND	{ug/L or ug/Kg)	Q5/L	Q
75-34-3	1,1-Dichloroethane		32	
75-35-4	1,1-Dichlcroethene		5	U
156-59-2	cis-1,2-Dichloroethet3e		5	U
75-09-2	Methylene chloride		2	J
108-88-3	Ibluere		0.8	J
71-55-6	1,1; 1-Trichloroethanfi		2	J
79-01-6	Trichloroetherie		1	J
75-01-4	Vinyl chloride		5	U

SM
5/15/09

19/211

EOT SQLuTICHS
BXR SOLUTIONS
2QMXJS ASP 2000/8260 - SELECT LIST - 8 CMECS
ANALYSIS-DFFTA-SHEET

Client No.

PW-2/GW-28

lab Name: Testflmerica laboratories Inc. Contract:Lab Code: RBCNy Case No.: _____ SAS No.: _____ SD3 No.:tfetrix: (soil/water) WR3ERLab Sample ID: A8F73506Sample wt/vol: 5.00 (gAriL) Jfi,

Lab File ID: S3014.KR

Level: (low/raed) LC*J

Date Saitp/Recv: 12/11/2008 12/11/2008

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 12/14/2008QC Column: ZB-624 ID: 0.18 (mm)Dilution Factor: 10.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

COTCENIRfiirCN UNTTS:

CAS WD.	CCMPCaD	(ug/L or ug/K£)	UG/L	Q
75-34-3	1,1-Dichloroethane		50	U
75-35-4	1,1-Dicbloroethene		50	U
156-59-2	cis-1^-Id-chloroethene		50	u
75-09-2	-Methylene chloride		50	D
108-88-3	Toluene		50	U
71-55-6	1a.l-^richloroethane		50	u
79-01-6	Trichlorcetnene		50	u
75-01-4	Vinyl chloride		50	u

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20/211

EOOR sauznCNs
EOCR SQUITTECNS
AQQB30S ASP 2000/8260 - SELECT LIST - 8 CMEDS
ANALYSIS riKm SHEET

"Oient"ND.

IW-3/GW-28

lab Name: Testamsrica laboratories Inc. Contract:lab Code: RECIOF Case No.: _____ SRS No.: _____ SDGND.: _____Jfetrix: (soil/water) WATERlab Sample ID: A8F73507Sample wt/vol; 5.00 (g/mL) ML.lab File 3D: 52980.RRLevel: (low/med) LOFlDate Samp/Recv: 12/11/2008 12/11/2008

% Moisture: not dec. _____ Heated Purge: JJ

Date Analyzed: 12/13/2008GC Column: ZB-624 ID: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

COSranRATTGN UNITS:

CAS NO.	CEMPOCND	(ug/L or ug/K£)	<u>Q3/L</u>	Q
75-34-3	1,1-Dichloroethane	5	U	
75-35-4	1,1-Dichlaraethene	5	0	
156-59-2	cis-1#2-Dichloroethene	5	u	
75-09-2	Methylene chloride	5	u	
108-88-3	Toluene	5	u	
71-55-6	1,1,1-Trichlarcethane	14		
79-01-6	Trichlorcethene	5	u	
75-01-4	Vinyl chloride	5	u	

smk
3/10/2009

21/211

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ECCR SDEDTKIB

AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS

ANAEIYSIS-DA2A SHEET

Client No.

TRIP HANK

lab Ifame: Tegtamerica laboratories Inc. Contract:lab Code: KBCHY Case Mo.: _____ SAS Bfo.: _____ SDGNb.: _____Jfetrix: (soil/water) WKIERlab Sample ID: ABF73508Sample wt/vol: 5.00 (g/mL) MLlab Pile 3D: S2981.KRLevel: (low/raed) IEWDate Samp/Recv: 12/11/2008 12/11/2008

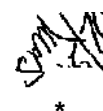
% Moisture: not dec. _____ Heated Purge: U

Date Analyzed: 12/13/2008GC Column: ZB-624 3D: 0.18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	CCMECUND	CrtKHra*ATiaN UNITS: (ug/L or ug/Kj) UG/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichlaroethene	S	U
156-59-2	cis-1 [^] -Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Otoluene	5	D
71-55-6	1,1,1-Tridhloroethane	5	U
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U



Ecor Solutions
Ecor Solutions
Wet Chemistry Analysis

22/211

Client Sample Kb^

PW-I/GW-28

Lab Name: Testflrceica Laboratories line.

Ctntract:

Lab Cbde: RBCNY

Case No.: _____

SAS Ifo. :

SDG Nb.:

Matrix (soil/water): WAIER

Lab Sample ID: ABF73505

% Solids: 0.0

Date Sanp/Recv: 12/11/2008 12/11/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Nurtfaer	Analyzed Date
Total Suspended Solids	M3/L	1310				2540D	12/16/2008

Cbnroents:

smk
2/16/08

Ecar Solutions
Ecar Solutions
Wet Chemistry Analysis

23/211

Client Sample No;

FW-2/GW-28

Lab Name: Testfanerina Tahrvtories Inc.

Contract:

Lab Ctade: RECN

Case No.: _____

SAS No.:

SDGNo.:

Matxix (soil/water); WOER

lab Sample ID: ABF73506

% Solids: OQ

Date Sanp/Recv: 12/11/2008 12/11/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ibtal Suspended Solids	M3/L	938				2540D	12/16/2008

Ctciments:

24/211

Ecar Solutions
Ecor Solutions
Wet Chemistry Analysis

Client Sample No.

PW-3/Q7-28

Lab Name: Testflmerica Laboratories Inc.

Contract:

Lab Code: RECNY

Case No.: _____

SfS No.:

SDGNO.:

Matrix (soil/vrater): WRIER

Lab Sample *JD*: A8F735Q7

% Solids: 0.0

Date Samp/Kecv: 12/11/2008 12/11/2008

Parameter Name	Units of Measure	Result	C	Q	M	Method Ntrriber	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			2540D	12/16/2008

Cbfiments:

sm
8/15/2007

ECOR SOLUTIONS
ECOR SOLUTIONS
AQUEOUS ASP 2DO0/S260 - saECT LIST-TABLE 5
WATER SURROGATE RECOVERY

25/211

Lab Nans: TestAneHca Laboratories Inc. Contract:

Lab Code: RECNV

Case No.: ____

SAS No.:

SD6 No.

	Client Sample ID	Lab Sample ID	BFB XSEC U	DCE XREC 0	TOL XREC B						TOT OUT S 3 3
1	DUP-9/6W-28	A8F73S04	100	106	97						0
2	H5B54	ABB2768401	101	101	100						0
3	KIM-9/GV-28	A8F73501	96	102	97						0
4	NU-10B-9/GW-28	A8F73S03	106	112	103						0
5	HU-10B-9/6W-28	A8F73SQ3HS	103	102	100						0
6	MU-10B-9/6U-28	A8F73S033D	96	95	94						0
7	HU-4-9/GU-28	A8F73502	108	115	102						0
B	VBLK54	ABB2768402	101	101	99						0
9	Volatile Holding BU	A8F73S09	101	105	101						0

QC LIMITS

BFB ° p-Brotaofluorobenzene < 73-120)
DCE • 1,2-Dichloroethane-D4 C 66-137)
TOL » Toluene-D8 C 71-126)

S Coluan to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogates diluted out

APPENDIX C
Mann-Kendall Statistical Analysis of Select Wells

Appendix C
Mann-Kendall Statistical Test - MW-1
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an Increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wledemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.						Mann-Kendall Statistical Test Form 4400-215 (5/2000)	
Site Name =		Byron Barrel & Drum	Byron Township	New York	BRRTS No. =	Well Number =	MW-1 '
Compound		11DCA	11DCE	MEC	U1TCA	TCE	TVOCs
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	14-Sep-06	5.00	6.00	5.00	190.00	5.00	203.00
2	7-Dec-06	6.00	9.00	5.00	170.00	5.00	187.00
3	22-Mar-07	2.00	4.00	5.00	100.00	5.00	108.00
4	14-Jun-07	6.00	3.00	5.00	200.00	5.00	211.00
5	12-Sep-07	7.00	3.00	5.00	200.00	5.00	210.00
6	19-Dec-07	10.00	2.00	5.00	200.00	5.00	214.00
7	26-Mar-08	8.00	3.00	5.00	210.00	5.00	221.00
8	18-Jun-08	19.00	3.00	5.00	130.00	5.00	153.00
9	25-Sep-08	20.00	1.00	5.00	47.00	5.00	69.00
10	U-Dec-03	55.00	2.00	5.00	54.00	5.00	113.00
S =		38	-30	0	-8	0	-5
n »		10	10	10	10	10	10
Average =		13.8	3.6	5	150.1	5	168.9
Standard Deviation =		15.61907666	2.319003617	0	63.09155605	0	54.53530966
Coefficient of VariationsVI=		1.131817149	0.644167672	0	0.420330154	0	0.322885196
Increasing Trend (80% Confidence)		YES	NO	NO	NO	NO	NO
Decreasing Trend (80% Confidence)		NO	YES	NO	NO	NO	NO
Undetermined Stable Trend, CV<=»1		NO	NO	YES	YES	YES	YES
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check, OK If Blank							
Stable or Decreasing Trend at 60% Confidence Level		NO	YES	YES	YES	YES	YES
1		Data Entry By => KBR		Date = 27-Mar-09		Checked By »	

Appendix C
Mann-Kendall Statistical Test - MW-4
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of Ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wledemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.						Mann-Kendall Statistical Test Form 4400-215 (5/2000)			
Site Name =		Byron Barrel & Drum		Byron Township	New York	BRRTS No. =	Well Number =	MW-4	
Compound		11DCA		11DCE		MEC		111TCA	
Concentration		Concentration		Concentration		Concentration		TCE	
(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		Concentration (leave blank if no data)	
TVOCs		Concentration		Concentration		Concentration		Concentration	
(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)	
Event Number	Sampling Date (most recent last)								
1	14-Sep-06	5.00	5.00	5.00	13.00	2.00	15.00		
2	7-Dec-06	5.00	5.00	5.00	6.00	1.00	6.00		
3	22-Mar-07	5.00	5.00	5.00	10.00	1.00	11.00		
4	14-Jun-07	5.00	5.00	5.00	10.00	1.00	11.00		
5	12-Sep-07	5.00	5.00	5.00	14.00	2.00	16.00		
6	19-Dec-07	5.00	5.00	5.00	16.00	1.00	17.00		
7	26-Mar-08	4.00	5.00	5.00	31.00	2.00	37.00		
8	18-Jun-08	4.00	5.00	5.00	16.00	1.00	21.00		
9	25-Sep-08	11.00	5.00	5.00	15.00	2.00	28.00		
10	11-Dec-08	37.00	5.00	5.00	49.00	5.00	91.00		
S s		5	0	0	29	13	34		
n =		10	10	10	10	10	10		
Average =		8.6	5	5	18	1.8	25.3		
Standard Deviation =		10.17840852	0	0	12.73664878	1.229272594	24.77027789		
Coefficient of Variation fCV)=		1.183535874	0	0	0.707591599	0.682929219	0.979062367		
Increasing Trend (80% Confidence)		NO	NO	NO	YES	YES	YES		
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	NO	NO		
Undetermined Stable Trend, CV<=1		NO	YES	YES	NO	NO	NO		
Undetermined Non-Stable Trend, CV>1		YES	NO	NO	NO	NO	NO		
Error Check, OK if Blank									
Stable or Decreasing Trend at 80% Confidence Level		NO	YES	YES	NO	NO	NO		
1		Data Entry By = KBR		Date = 27-Mar-09		Checked By =			

Appendix C
Mann-Kendall Statistical Test - MW-10B
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.						Mann-Kendall Statistical Test Form 4400-215 (5/2000)									
Site Name =		Byron Barrel & Drum		Byron Township		New York		BRRTS No. =		Well Number=		MW-10B			
Compound				11DCA Concentration (leave blank if no data)		11DCE Concentration (leave blank if no data)		MEC Concentration (leave blank if no data)		111TCA Concentration (leave blank if no data)		TCE Concentration (leave blank if no data)		TVOCs Concentration (leave blank if no data)	
Event Number	Sampling Date (most recent last)														
1	13-Sep-05														
2	25-Mar-06														
3	14-Sep-06														
4	22-Mar-07														
5	12-Sep-07														
6	19-Dec-07														
7	26-Mar-08														
8	15-Jun-08														
9	25-Sep-08														
10	11-Dec-08														
S =															
n =															
Average =															
Standard Deviation =															
Coefficient of Variation(CV)=															
Increasing Trend (80% Confidence)															
Decreasing Trend (80% Confidence)															
Undetermined Stable Trend, CV<=1															
Undetermined Non-Stable Trend, CV>1															
Error Check, OK if Blank															
Stable or Decreasing Trend at 80% Confidence Level		NO		YES		NO		NO		YES		NO			
Data Entry By =		KBR		Date =		27-Mar-09		Checked By =							

Appendix C
Mann-Kendall Statistical Test - PW-1
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.						Mann-Kendall Statistical Test Form 4400-215 (5/2000)							
Site Name =		Byron Barrel & Drum		Byron Township		New York		BRRS No. =		Well Number =		PW-1	
Compound		11DCA		11DCE		cDCE		111TCA		TCE		TVOCs	
Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration	
(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)		(leave blank if no data)	
Event Number	Sampling Date (most recent last)	11DCA		11DCE		cDCE		111TCA		TCE		TVOCs	
1	14-Sep-06	9.00		2.00		5.00		230.00		1.00		30.00	
2	7-Oct-06	6.00		2.00		5.00		160.00		1.00		169.00	
3	22-Mar-07	6.00		2.00		5.00		170.00		1.00		179.00	
4	14-Jun-07	9.00		2.00		5.00		280.00		2.00		293.00	
5	12-Sep-07	5.00		2.00		5.00		130.00		2.00		135.00	
6	21-Dec-07	5.00		2.00		5.00		5.00		2.00		1.00	
7	26-Mar-08	5.00		2.00		5.00		5.00		2.00		1.00	
8	18-Jun-08	7.00		2.00		5.00		7.00		2.00		14.00	
9	25-Sep-08	12.00		2.00		5.00		3.00		0.60		17.60	
10	11-Dec-08	32.00		2.00		5.00		2.00		1.00		37.80	
S =		8		0		0		-32		3		-20	
n =		10		10		10		10		10		10	
Average «		9.6		2		5		99.2		1.46		115.84	
Standard Deviation =		8.194849331		0		0		107.7061847		0.58156876		119.7889552	
Coefficient of Variation(CV) =»		0.853630139		0		0		1.05574783		0.398334767		1.034089737	
Increasing Trend (80% Confidence)		NO		NO		NO		NO		NO		NO	
Decreasing Trend (80% Confidence)		NO		NO		NO		YES		NO		YES	
Undetermined Stable Trend, CV<»1		YES		YES		YES		NO		YES		NO	
Undetermined Non-Stable Trend, CV>1		NO		NO		NO		NO		NO		NO	
Error Check, OK if Blank													
Stable or Decreasing Trend at 80% Confidence Level		YES		YES		YES		YES		YES		YES	
I		Data Entry By = KBR		Date =		27-Mar-09		Checked By =					

Appendix C
Mann-Kendall Statistical Test - **PW-2**
Byron Barrel Drum Site
Byron Township, NY

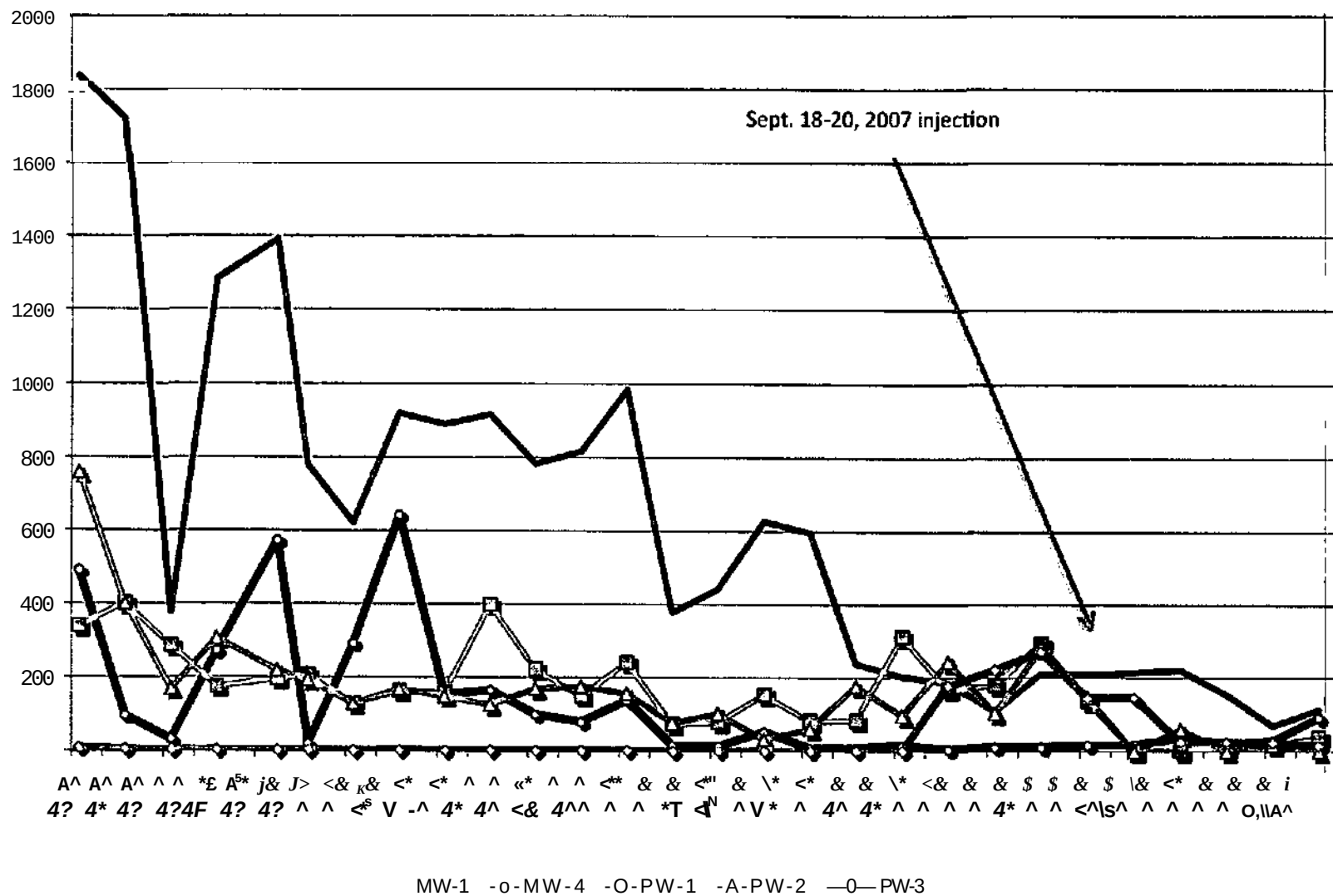
State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 60% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.						Mann-Kendall Statistical Test Form 4400-215 (5/2000)				
Site Name =		Byron Barrel & Drum		Byron Township	New York	BRRTS No. =	Well Number =	PW-2		
Compound		11DCA		11DCE	CDCE	111TCA		TCE	TVOCs	
Event Number		Concentration (leave blank if no data)		Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)		Concentration (leave blank if no data)	Concentration (leave blank if no data)	
Sampling Date (most recent last)		(leave blank if no data)		(leave blank if no data)	(leave blank if no data)	(leave blank if no data)		(leave blank if no data)	(leave blank if no data)	
1		14-Sep-06		3.00	1.00	5.00		92.00	1.00	97.00
2		7-Dec-06		9.00	3.00	5.00		230.00	1.00	244.00
3		22-Mar-07		8.00	4.00	5.00		90.00	2.00	103.00
4		14-Jun-07		8.00	2.00	5.00		270.00	1.00	280.00
5		12-Sep-07		5.00	1.00	5.00		140.00	1.00	146.00
6		21-Dec-07		5.00	1.00	5.00		5.00	1.00	1.00
7		26-Mar-08		5.00	1.00	5.00		30.00	1.00	59.00
8		18-Jun-08		5.00	1.00	5.00		5.00	1.00	1.00
9		25-Sep-08		14.00	1.00	5.00		5.00	0.70	17.70
10		11-Dec-08		5.00	1.00	5.00		5.00	1.00	1.00
S *				-2	-16	0		-25	-11	-22
n =				10	10	10		10	10	10
Average *				6.7	1.6	S		87.2	1.07	94.97
Standard Deviation s				3.164033993	1.0749677	0		98.2771591	0.340098025	101.5842732
Coefficient of Variation(CV)=				0.47224388	0.671854812	0		1.127031641	0.317848622	1.069645922
Increasing Trend (80% Confidence)				NO	NO	NO		NO	NO	NO
Decreasing Trend (80% Confidence)				NO	YES	NO		YES	YES	YES
Undetermined Stable Trend, CV<= 1				YES	NO	YES		NO	NO	NO
Undetermined Non-Stable Trend, CV>1				NO	NO	NO		NO	NO	NO
Error Check, OK if Blank										
Stable or Decreasing Trend at 80% Confidence Level				YES	YES	YES		YES	YES	YES
1		Data Entry By = KBR		Date =		27-Mar-C9		Checked By =		

Appendix C
Mann-Kendall Statistical Test - PW-3
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin Department of Natural Resources Remediation and Redevelopment Program Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of Ch. Comm 46 and ch. NR 746, Wis. Adm. Code. Instructions; To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.					Mann-Kendall Statistical Test Form 4400-215 (5/2000)				
Site Name =		Byron Barrel & Drum	Byron Township	New York	BRRTS No. =		Well Number =	PW-3	
Compound				11DCA	11DCE	cDCE	111TCA	TCE	TVOCs
				Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
				(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
Event Number	Sampling Date (most recent last)								
1	22-Jun-06	5.00	5.00	5.00	1.00	5.00	1.00		
2	14-Sep-06	5.00	5.00	5.00	2.00	5.00	2.00		
3	7Dec-06	6.00	2.00	5.00	170.00	1.00	179.00		
4	22-Mar-07	7.00	4.00	5.00	210.00	1.00	222.00		
5	14-Jun-07	9.00	3.00	SOO	260.00	SOO	272.00		
6	12-Sep-07	4.00	1.00	10.00	130.00	5.00	145.00		
7	26-Mar-08	0.90	5.00	5.00	24.00	1.00	24.90		
8	18-Jun-08	0.60	5.00	5.00	24.00	1.00	24.60		
9	2S-Sep-08	5.00	5.00	5.00	33.00	5.00	22.00		
10	11-Dec-08	5.00	5.00	5.00	14.00	5.00	14.00		
S =		-9	6	1	0	0	-5		
n =		10	10	10	10	10	10		
Average *		4.75	4	5.5	86.8	3.4	90.65		
Standard Deviation =		2.528614025	1.490711985	1.58113883	96.95336794	2.065591116	103.3171735		
Coefficient of Variation(CV)=		0.532339795	0.372677996	0.287479787	1.116974285	0.607526799	1.139737159		
Increasing Trend (80% Confidence)		NO	NO	NO	NO	NO	NO		
Decreasing Trend (80% Confidence)		NO	NO	NO	NO	NO	NO		
Undetermined Stable Trend, CV<=1		YES	YES	YES	NO	YES	NO		
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	YES	NO	YES		
Error Check, OK If Blank									
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	NO	YES	NO		
1	Data Entry By =	KBR	Date =	22-Mar-09	Checked By =				

APPENDIX D
Well Isoconcentration Graphs

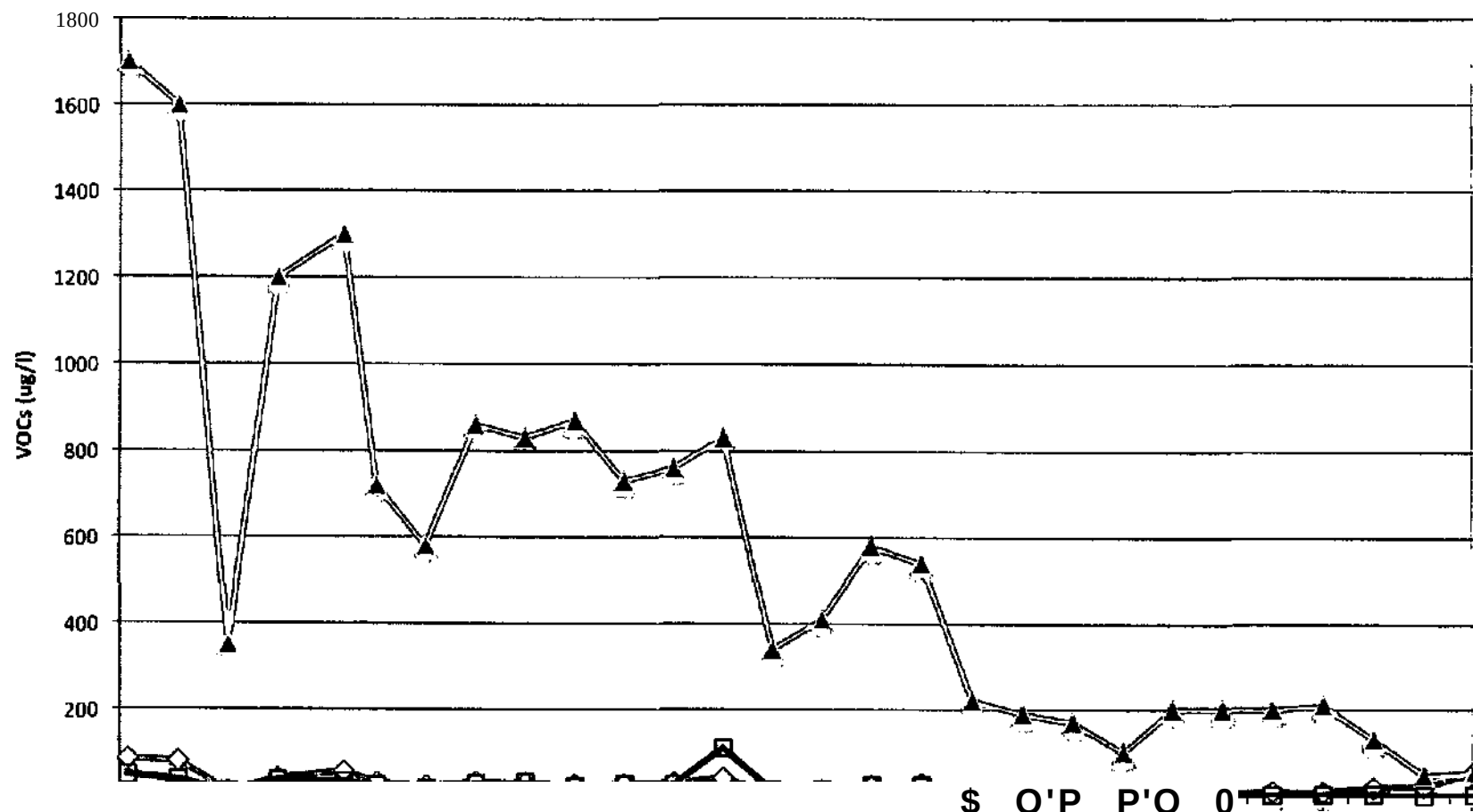
Byron Barrel TVOC Groundwater Concentrations



80/f/ff
80/T/6
80/X/Z
80/X/S
80/X/E
80/1/I
£0/1/II
ZO/X/6
LO/I/i
ZO/T/S
ZO/X/E
ZO/I/X
90/X/IX
90/X/6
90/1/1
90/I/S
90/X/E
90/X/I
SO/I/TI
SO/t/6
. SO/I/Z
. SO/t/S
. SO/I/E
. SO/X/X

to/i/ii
frO/I/6
frO/X/Z
. t-O/X/S
t?o/x/e
frO/X/I
EO/XXX
EO/X/6
. EO/X/Z
. EO/X/S
. EO/X/E
. EO/X/X
ZO/XXX
30/X/6
. ZO/I/Z
. ZO/X/S
. 20/X/E

Monitoring Well MW-1 VOC Concentrations

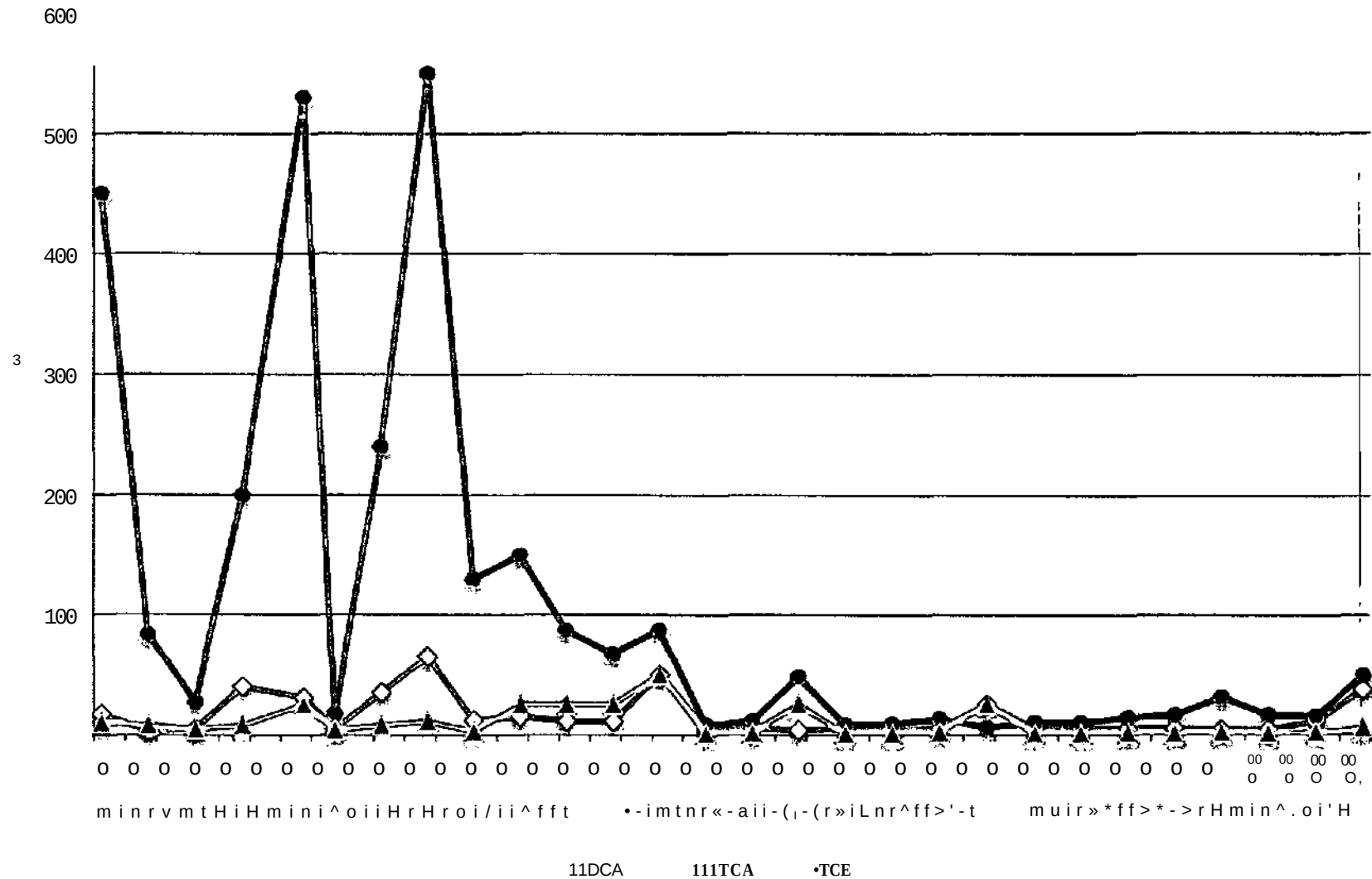


•1,1-DCA

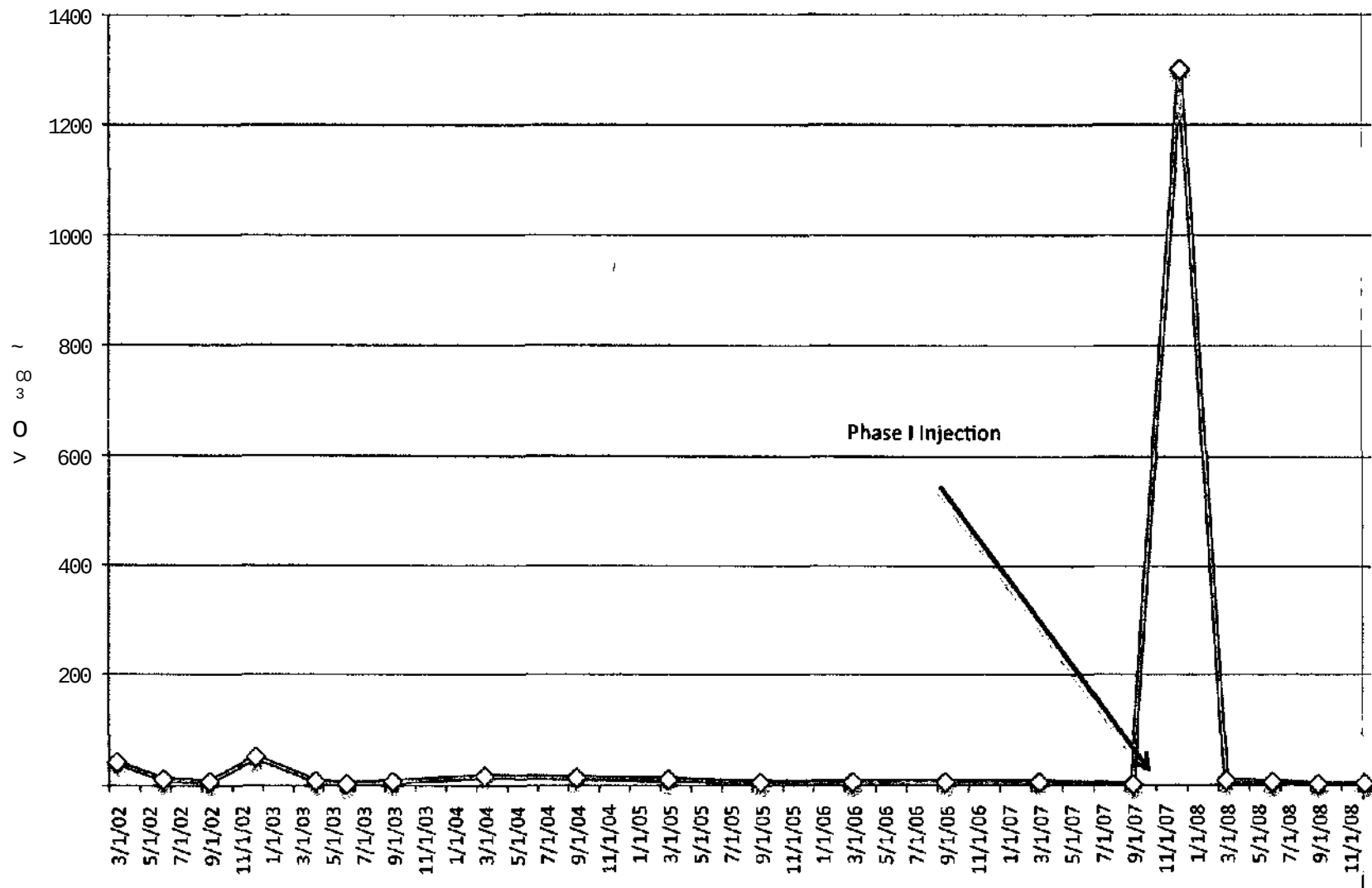
•1,1-DCE

•1,1,1-TCA

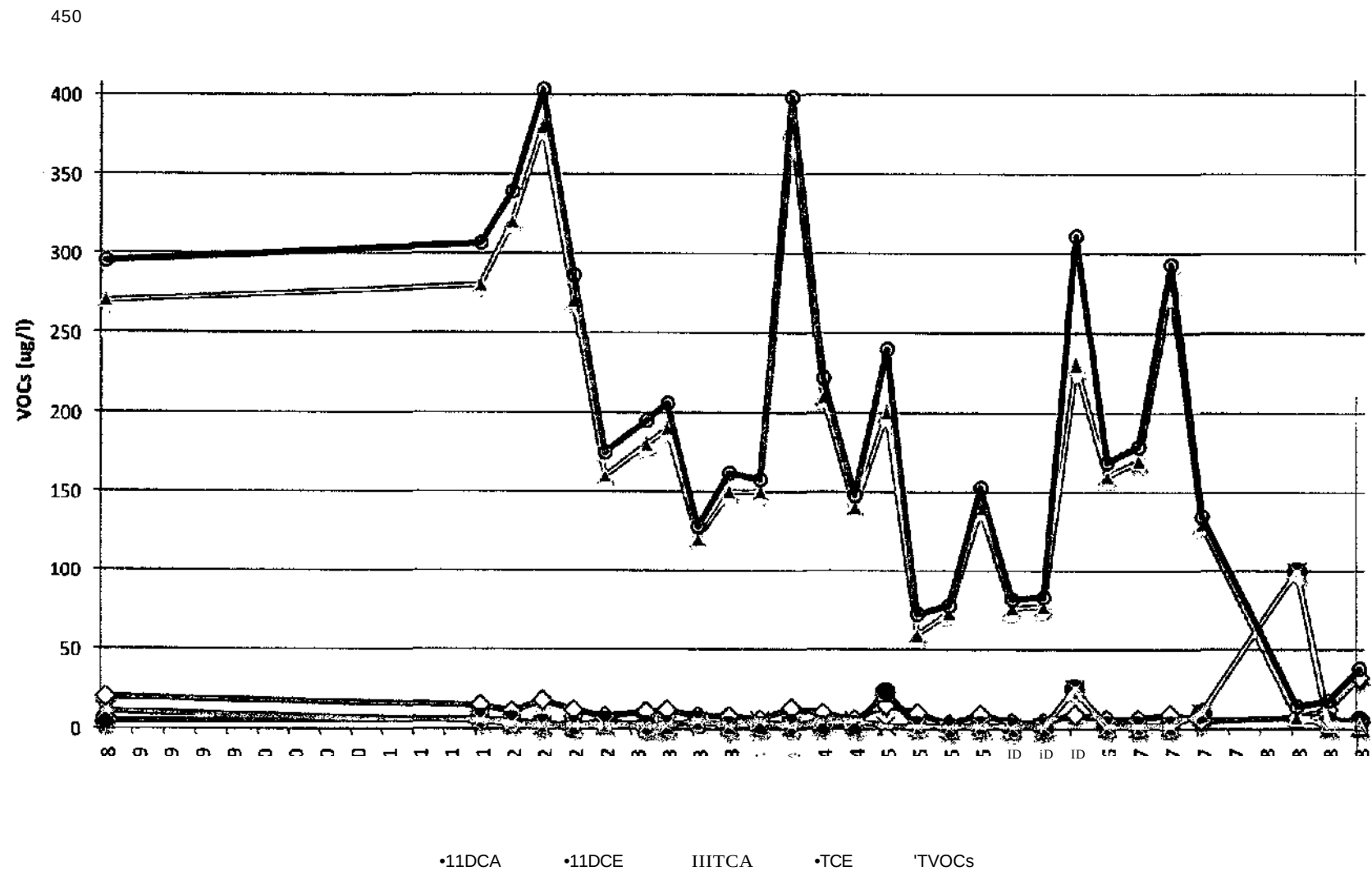
Monitoring Well MW-4 VOC Concentrations



Monitoring Well MW-10B 111TCA Concentrations



Well PW-1 VOC Concentrations



Well PW-2 VOC Concentrations

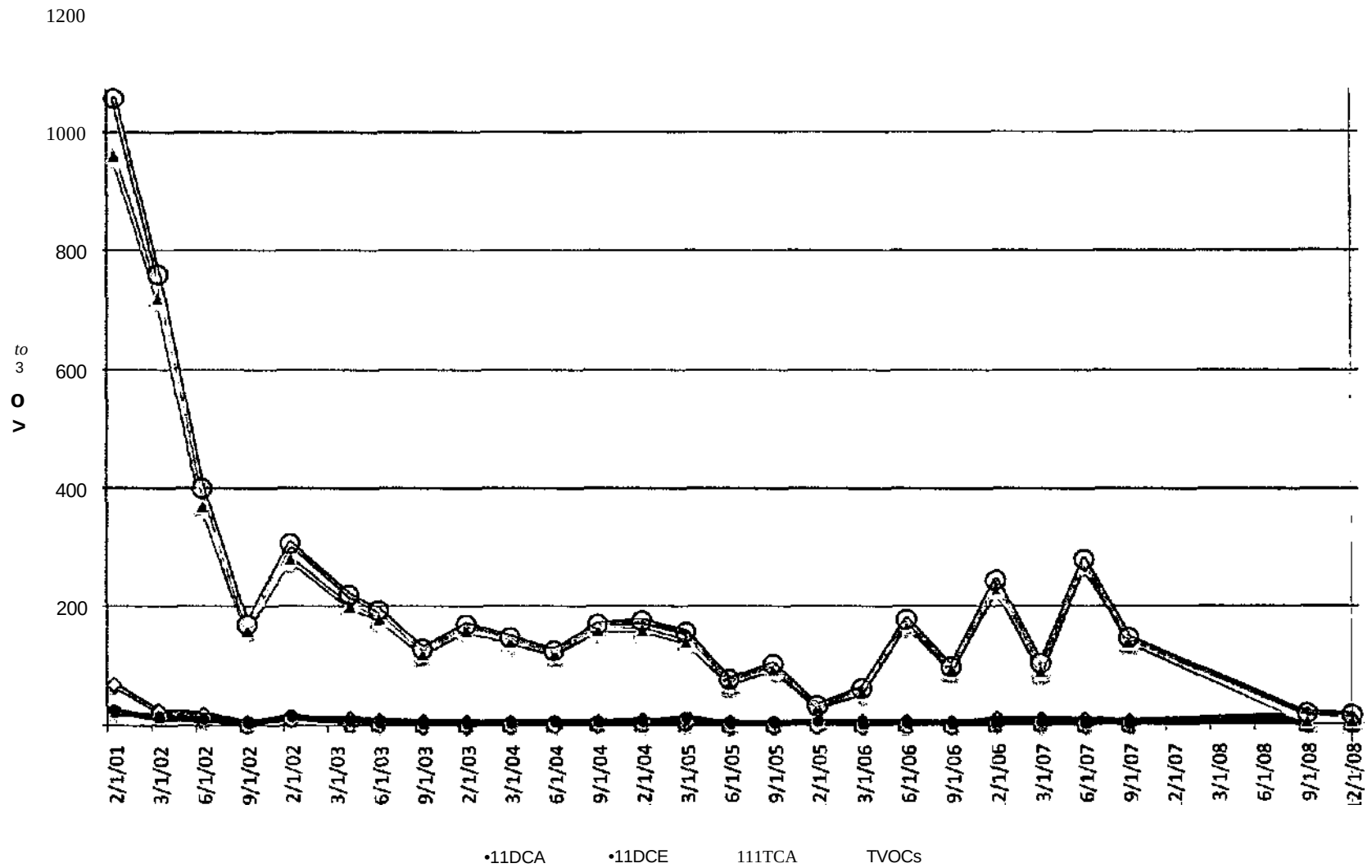
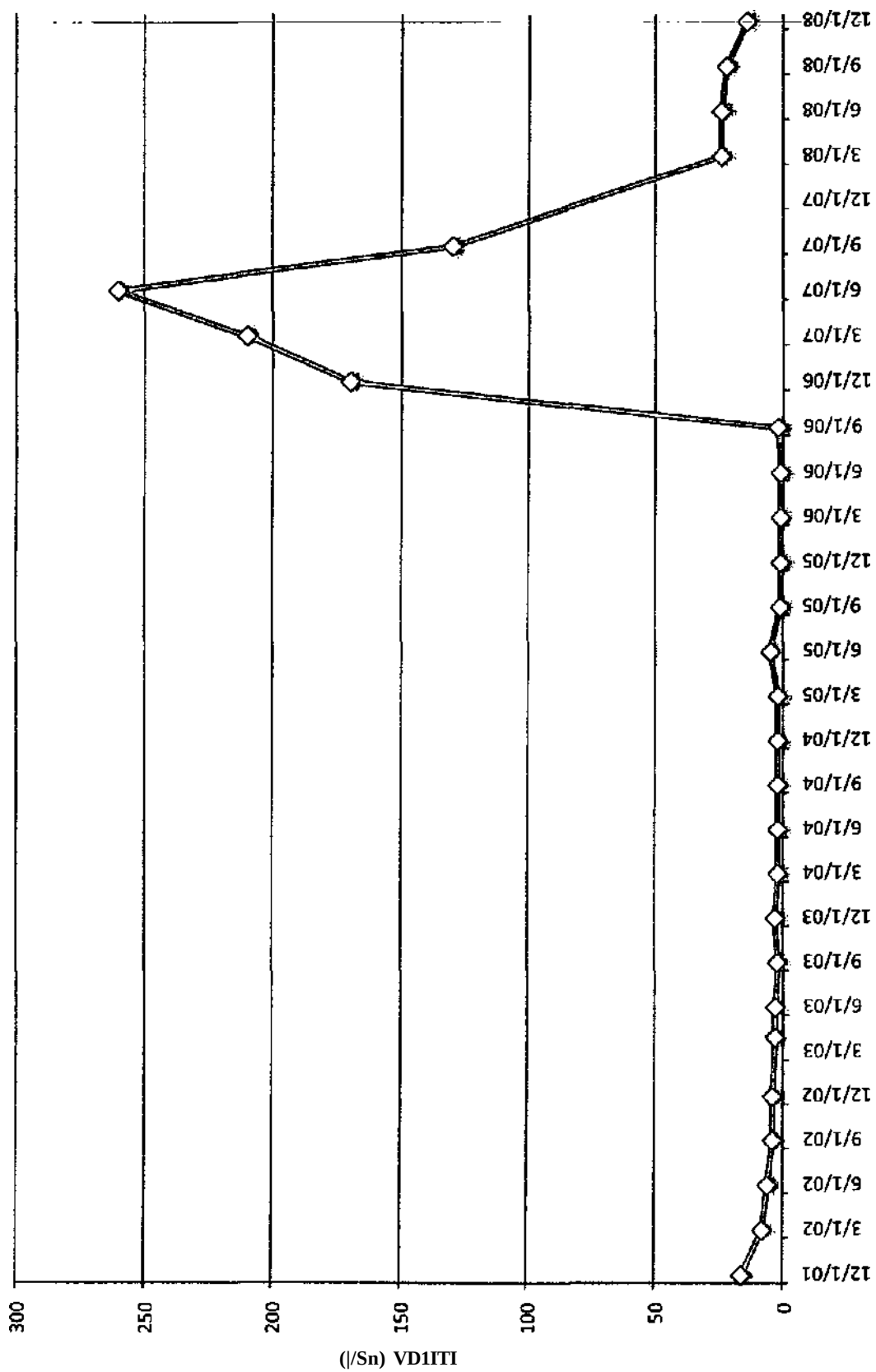


Figure 2: VD1ITI (Sn/l) vs. Date



APPENDIX E
ISRT Analytical and Microbial Data

TestAmerica

-THELEAOERIN'ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Job#: A08-F732.AQ8-F734

Project#: NY1A8798

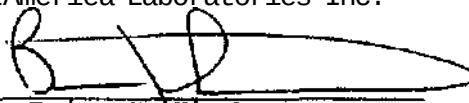
SD3#: F732

Site Name: Ecor Solutions

Task: BYRCN SITE - Aqueous

Mr. Matt Lapp
ECOR Solutions, Inc.
1075 Andrews Drive
West Chester, PA 19380

TestAmerica Laboratories Inc.



Brian J. Fischer
Project Manager

01/13/2009

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8F73201	MW-1	WATER	12/11/2008	09:35	12/11/2008	15:15
A8F73201	MW-1-9/GW-28	WATER	12/11/2008	09:35	12/11/2008	15:15
A8F73202	MW-10B	WATER	12/11/2008	12:50	12/11/2008	15:15
A8F73202	MW-10B-9/GW-28	WATER	12/11/2008	12:50	12/11/2008	15:15
A8F73203	MW-4	WATER	12/11/2008	10:15	12/11/2008	15:15
A8F73203	MW-4-9/GW-28	WATER	12/11/2008	10:15	12/11/2008	15:15
A8F73204	EW-1	WATER	12/11/2008	13:20	12/11/2008	15:15
A8F73204	PW-1-9/GW-28	WATER	12/11/2008	13:20	12/11/2008	15:15
A8F73205	FW-2	WATER	12/11/2008	12:00	12/11/2008	15:15
A8F73205	FW-2-9/GW-28	WATER	12/11/2008	12:00	12/11/2008	15:15
A8F73206	FW-3-9/GW-28	WATER	12/11/2008	11:00	12/11/2008	15:15

METHODS SUMMARY

JOD#: A08-F732.A08-F734Project**: NY1A8798SDG#: F732Site Name: Ecor Solutions

PARAMETER	ANALYTICAL Mb'IMCU	
DISSOLVED GASES - CARBON DIOXIDE ONLY (SUBCONTRACT)	OTHER	RSK175
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	OTHER	RSKL75
Iron - Soluble	SW8463	6010
iron - Total	SW8463	6010
Manganese - Soluble	SW8463	6010
Manganese - Total	SW8463	6010
Biochemical Oxygen Demand	SM20	5210B
Chemical Oxygen Demand	MCAWW	410.4
Chloride	SW8463	9056
Nitrate-Nitrite	MCAWW	353.2
Sulfate	ASIM	D-516-90
Sulfide	SM20	4500-S F
Total Kjeldahl Nitrogen	MCAWW	351.2
Total Organic Carbon	SW8463	9060
Total Phosphorous	SM20	4500-P E

References:

ASIM	"Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, PA.
MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
OTHER	Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory
SM20	"Standard Methods for the Examination of Water and Wastewater", 20th Edition.
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-F732.A08-F734Project#: NY1A8798SDS#: F732Site Name: Ecor SolutionsGeneral Comments

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

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

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

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

Sample Receipt Comments

A08-F732

Sample Cooler(s) were received at the following temperature(s); 5.2 °C

All samples were received in good condition.

A08-F734

Sample Cooler(s) were received at the following temperature(s); 5.2 °C

All samples were received in good condition.

GC volatile Data

Carbon Dioxide was subcontracted to TestAmerica Austin. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Carbon Dioxide may be found within the comment summary of the subcontract report.

Metals Data

Volumes 04 and 05 for Dissolved Metals were filtered and preserved in the TestAmerica Metals Digestion Laboratory on 12/16/2008. Each sample was filtered using a 0.45 micron Metrical Black Grid filter, Pall Life Sciences Lot #T83075. Each sample was then preserved to a pH <2 with 1.0 mL of Nitric Acid, J.T. Baker lot #320046.

Wet Chemistry Data

Sample MW-4-9/GW-28 was initially analyzed within the analytical holding time using multiple dilutions for Biochemical Oxygen Demand, however all of the oxygen was depleted. The results could not accurately be quantified. The sample was reanalyzed outside of holding time at greater dilutions and exhibited compliant results. Both sets of data have been reported.

Samples MW-4-9/GW-28, EW-1-9/GW-28 and EW-2-9/GW-28 were initially analyzed within the analytical holding time using multiple dilutions for Biochemical Oxygen Demand, however all of the oxygen was depleted. The results could not accurately be quantified.

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

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."



Brian J. Fischer
Project Manager

Date

Date: 01/13/2009
Time: 10:50:40

Dilution Log w/Code Information
For Project W1A8798, SDS F732

7/95

Page: 1
Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter <Inorganic>/method <Organic>	Dilution	Code
HW-1-9/6V-28	A8F73201	RSK175	20.00	008
mi-1-OR-9/fill-2S	A8F73202	RSK175	inn	rln
HW-10B-9/GW-28	ASF73202RE	Biochemical Oxygen Demand	10.00	008
F1V-4-9/6W-28	A8F73203	RSK175	50.00	008
HV-4-9/Gir-28	A8F73203	Chemical Oxygen Demand	2.00	008
HV-4-9/GW-28	A8F73203	Total Organic Carbon	4.00	008
(W-4-9/QW-28	A8F73203RE	Biochemical Oxygen Demand	10.00	008
PW-1-9/GH-28	A8F73204	RSK175	500.00	008
PM-1-9/6W-28	A8F73204	Chemical Oxygen Demand	4.00	008
PV-1-9/6W-28	A8F73204	Chloride	10.00	002
PV-1-9/GW-28	A8F73204	Banganese - Soluble	5.00	008
PW-1-9/GW-28	A8F73204	Manganese - Total	5.00	008
PW-1-9y6W-28	A8F73204	Sulfide	4.00	010
PW-1-9/GW-28	A8F73204	Total Kjeldahl Nitrogen	3.00	008
PW-1-9/GW-28	A8F73204	Total Organic Carbon	40.00	008
PW-1-9/GW-28	A8F73204	Total Phosphorous	5.00	008
PW-1-9/GW-28	A8F73204RE	Biochemical Oxygen Demand	10.00	008
PW-2-9/GW-28	A8F73205	RSK175	1000.00	008
PV-2-9/GW-28	A8F73205	Chemical Oxygen Demand	10.00	008
PW-2-9/GW-28	A8F73205	Chloride	10.00	002
PW-2-9/GW-28	A8F73205	Sulfide	5.00	010
PU-2-9/GU-28	A8F73203	Total Kjeldahl Nitrogen	3.00	008
PV-2-9/GW-28	A8F73205	Total Organic Carbon	20.00	008
PW-2-9/GW-28	A8F73205	Total Phosphorous	5.00	008
PW-2-9/GW-28	A8F73205HS	RSK175	1000.00	008
PU-2-9/6V-28	A8F73205RE	Biochemical Oxygen Demand	10.00	008
PW-3-9/6W-28	A8F73206SD	RSK175	1000.00	008

Dilution Code Definition:

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

DATA QUALIFIER PAGE

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

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

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

INORGANIC DATA QUALIFIERS

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

[illegible]

Date: 01/13/2009
 Time: 10:50:48

gcor Solutions
 STROM SITE - Aqueous
 DISSOLVED GASES - CARBON DIOXIDE ONLY<SUBCONTRACT)

Rept: AN0326
 j
 |

Client ID Job NO Sample Date		Lab ID		HW-1 A08-F73A 12/11/2008		A8F73201		KW-10B A08-F73* 12/11/2008		A8F73202		HU-4 A0S-F734 12/11/2008		A8F73203		PV-1 A08-F734 12/11/2008		A8F73204	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Carbon Dioxide		UG/L		46000		3000		62800		3000		202000		10000		236000		1 50000	

Client ID		Lab ID		pw-2							
Job No				A08-F734		A8F73205					
Sample Date				12/11/2008							
Analyte		Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Carbon Dioxide		06/L	319000	50000	NA		NA		NA		

NA = Not Applicable ND = Not Detected

TestAmerica Lab

Client 10		MW-1-9/GU-28		HU-10B-9/GU-28		HW-4-9/6W-28		PW-1-9/GW-28	
Job No		A08-F73Z		A08-F732		A08-F732		A08-F732	
Sample Date		12/11/2008		12/11/2008		12/11/2008		12/11/2008	
Lab JD		A8F73201		A8F73202		A8F73203		A8F73204	
Analyte	Units	Sample Value	Reporting Limit	Sample value	Reporting Liait	Sample value	Reporting Liait	Sample Value	Reporting Liait
Iron - Total	H6/L	3.8	0.050	18.2	0.050	58.1	0.050	163	0.050
manganese - Total	H6/L	0.53	0.0030	0.79	0.0030	2.5	0.0030	31.6	0.015

client 10
Job No
Sample Date

Lab 10

PU-2-9/6W-28
A08-F732
12/11/2008

A8F73205

Analyte	Units	Sample value	Reporting Liait	Sample Value	Reporting Liait	Sample Value	Reporting Linit	Sample value	Reporting I Linn t
Iron - Total	H6/L	184	0.050	NA		NA		NA	
manganese - Total	MG/L	5.5	0.0030	NA		NA		NA	

Client ID Job No Sample Date		Lab ID		MU-1-9/GW-28 A08-F732 12/11/2008		A8F73201		HW-10B-9/SW-28 A08-F732 12/11/2008		A8F73202		HU-4-9/6W-28 A08-F732 12/11/2008		A8F73203		PV-1-9/SW-28 A08-F732 12/11/2008		A8F73204	
Analyte		Units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit	
Iron - Soluble		HG/L		2.8		0.050		16.4		0.050		55.1		0.050		147		0.050	
Manganese - Soluble		MG/L		0.50		0.0030		0.73		0.0030		2.4		0.0030		30.8		* 0.015	

Client ID Job No Sample Date		Lab ID		PW-2-9/GW-26 A08-F732 12/11/2008		A8F73205													
Analyte		units		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample Value		Reporting Limit		Sample value		Reporting Limit	
Iron - Soluble		MS/L		163		0.050		NA				NA				NA			
Manganese - Soluble		1*16/L		5.0		0.0030		NA				NA				NA			

Date: 01/13/2009 Time: 10:51:00		Ecor solutions BYRON SITE - Aqueous WET CHEMISTRY ANALYSIS							Rept: AN0326	
Client ID Job No Sample Date		Lab ID NW-1-9/GV-2S A08-F732 12/11/2008		ASF73201 NV-10B-9/6V-28 A08-F732 12/11/2008		A8F73202 HV-t08-9/6W-28 A08-F732 12/11/2008		A8F73202RE MU-4-9/GW-28 A08-F732 12/11/2008		A8F73203
Analyte	Units	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Reporting Limit
Biochemical Oxygen Demand	MG/L	ND	2.0	75.7 E	2.0	123	20.0	73.7 E	2.0	2.0
Chemical Oxygen Demand	MG/L	ND	10	136	10	NA		944	20.0	20.0
Chloride	MG/L	4.2	0.50	2.5	0.50	NA		2.2	0.50	0.50
Nitrate-Nitrite	MG/L-N	ND	0.050	ND	0.050	NA		ND	0.050	0.050
Sulfate	MG/L	25.4	5.0	ND	5.0	NA		21.5	5.0	5.0
Sulfide	MG/L	ND	1.0	ND	1.0	NA		ND	1.0	1.0
Total Kjeldahl Nitrogen	MG/L-N	0.45	0.20	0.48	0.20	NA		0.33	0.20	0.20
Total Organic Carbon	MG/L	2.9	1.0	43.9	1.0	NA		311	4.0	4.0
Total Phosphorous	MG/L-P	ND	0.010	ND	0.010	NA		0.078	0.010	0.010
		...								
Client ID Job No Sample Date		Lab ID MW-4-9/GU-28 A06-F732 12/11/2008		A8F73203RE PV-1-9/6W-28 A08-F732 12/11/2008		A8F73204 PW-1-9/GW-28 A08-F732 12/11/2008		A8F73204RE PV-2-9/GW-28 A08-F732 12/11/2008		A8F73205
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Reporting Limit
Biochemical Oxygen Demand	MG/L	624	20.0	72.0 E	2.0	778 E	2.0	64.7 E	2.0	2.0
Chemical oxygen Demand	MG/L	NA		3360	40.0	NA		3880	100	100
Chloride	MG/L	NA		6.6	5.0	NA		22.8	5.0	5.0
Nitrate-Nitrite	MG/L-N	NA		ND	0.050	NA		ND	0.050	0.050
Sulfate	MG/L	NA		14.4	5.0	NA		27.7	5.0	5.0
Sulfide	MG/L	NA		1.6	1.0	NA		12.0	5.0	5.0
Total Kjeldahl Nitrogen	MG/L-N	NA		14.4	0.60	NA		9.7	0.60	0.60
Total Organic Carbon	MG/L	NA		1150	40.0	NA		823	20.0	20.0
Total Phosphorous	MG/L-P	NA		0.48	0.050	NA		1.1	0.050	0.050
Client ID Job No Sample Date		Lab ID PW-2-9/SV-28 A08-F732 12/11/2008		A8F73205RE PW-3-9/6W-28 A08-F732 12/11/2008		A8F73206				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Reporting Limit
Biochemical Oxygen Demand	MG/L	779 E	2.0	NA		NA		NA		
Total Organic Carbon	MG/L	NA		4.3	1.0	NA				1

NA ° Not Applicable ND Not Detected

TestAmerica Lab

mtcrabialinsights

2340 Stock Creek Blvd.
-Rockford-TN 37853-3044-
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

DNA Analysis Report

Client: Keith Rapp
ECOR Solutions
3191 Copper Oak Pl.
Woodbury, MN 55125

Phone: 651735.6431

Fax:

MI Identifier: 042FF

Date Rec: 06/19/2008

Report Date: 07/16/2008

Client Project #: 01545.100

Client Project Name: Byron Barrel

Purchase Order #: 01545.100

Analysis Requested: DGGE, GenBank Accession Number (DGGE), PLFA, CENSUS

Comments:

All samples within this data package were analyzed under U.S. EPA Good Laboratory Practice Standards: Toxic Substances Control Act (40 CFR part 790). All samples were processed according to standard operating procedures. Test results submitted in this data package meet the quality assurance requirements established by Microbial Insights, Inc.

Reported By:

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

DGGE

Client: ECOR Solutions Woodbury MN
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

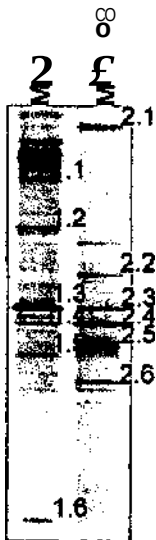


Figure 1. DGGE profile of amplified DNA from a portion of the 16S rRNA gene. Banding patterns and relative intensities of the recovered bands provide a means of comparing the communities. Bacteria must constitute at least 1-2% of the total bacterial community to form a visible band. Labeled bands were excised and sequenced. Results From sequencing can be found in the following table.

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Tel. (865) 573-8188 Fax. (865) 573-8133

DGGE

Client: ECOR Solutions Woodbury MN
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

Table 1. Sequence results from bands excised from Figure 1. Identifications are based on ONA sequences in the Ribosomal Database Project (RDP). Similarity indices above .900 are considered excellent, .800-.900 are good, and below .800 are considered to be unique sequences. Phylogenetic affiliations are presented as phylum followed by family unless otherwise noted.

Band	SbntBT Qonult	Similarity	Donora	Acceptors	Dtsion^tton
		Index			
	<i>Gaobactar spp.</i>	0.912	acetate, ethanol, benzoate	Fe3+, Mn4+	Anaerobic, Iron (Fe(III))- reducing, gram-negative bacteria.
	<i>Gaobactar spp.</i>	0.936	acetate, ethanol, benzoate	Fe3*, Mn4+	Anaerobic, iron (Fe(III))- reducing, gram-negative bacteria.
	<i>Gaobactar spp.</i>	0.943	acetate, ethanol, benzoate	Fe3+, Mn4+	Anaerobic, Iron (Fe(III))- reducing, gram-negative bacteria.
2.2	<i>Geobactonacaaa family</i>	0.753			
2.3	<i>Geobactar spp.</i>	0.636	acetate, ethanol, benzoate	Fe3+, Mn4+	Anaerobic, iron (Fe(III))- reducing, gram-negative bacteria.
2.4	<i>Gaobactar spp.</i>	0.797	acetate, ethanol, benzoate	Fe3*, Mn4+	Anaerobic, iron (Fe(III))- reducing, gram-negative bacteria.
2.5	<i>Geobactar spp.</i>	0.794	acetate, ethanol, benzoate	Fe3+, Mn4+	Anaerobic, iron (Fe(III))- reducing, gram-negative bacteria.

Excised bands not included in this table did not produce phylogenetic matches.

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GBAN

Client: **ECOR Solutions Woodbury MN**
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

Identifications are based on DNA sequences in the Ribosomal Database Project (RDP). Similarity indices above .900 are considered excellent, .700-.800 are good, and below .600 are considered to be unique sequences. Phylogenic affiliations are presented as phylum followed by family unless otherwise noted.

Band	Stantor QWIUB	Stuilsifty	GsrBank Accession Nunbar
		Max	
1.1	<i>Geobacter spp.</i>	0.913	AYBS3548; AY653551; AY653549
1.4	<i>Geobacterspp.</i>	0.936	AY653548; AY653551; AY653549
2.1	<i>Geobacter spp.</i>	0.943	AY297795; AY297797; AY297798
2.2	<i>Geobacteracaa family</i>	0.753	AB307657
2.3	<i>Geobacter spp</i>	0.836	EF644S10; EFS44512
2.4	<i>Geobacter spp</i>	0.797	AY2S7795; AY297797; AY297798
2.5	<i>Geobacter spp.</i>	0.794	AB307657

Excised bands not included in Hits report did not produce phylogenetic matches.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

PLFA

Client: ECOR Solutions
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

Sample Information

Sample Name:	MW-1	MW-10B
Sample Date:	06/18/2008	06/18/2008
Sample Matrix:	beads	beads

Biomass Concentrations

Total Biomass (cells/bead)	2.61 E+05	2E+06

Community Structure (% total PLFA)

Firmicutes (TerBrSats)	7.22	6.26
Proteobacteria (Monos)	62.03	62.38
Anaerobic metal reducers (BrMonos)	0.69	0.62
SRB/Actinomycetes (MidBrSats)	1.85	0.33
General (Nsats)	27.62	19.43
Eukaryotes (polyenoics)	0.59	12.00

Physiological Status (Proteobacteria only)

Slowed Growth	0.40	0.03
Decreased Permeability	0.07	0.03

t-mwd:

NA = Not Analyzed NS = Not Sampled

Client: ECOR Solutions
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

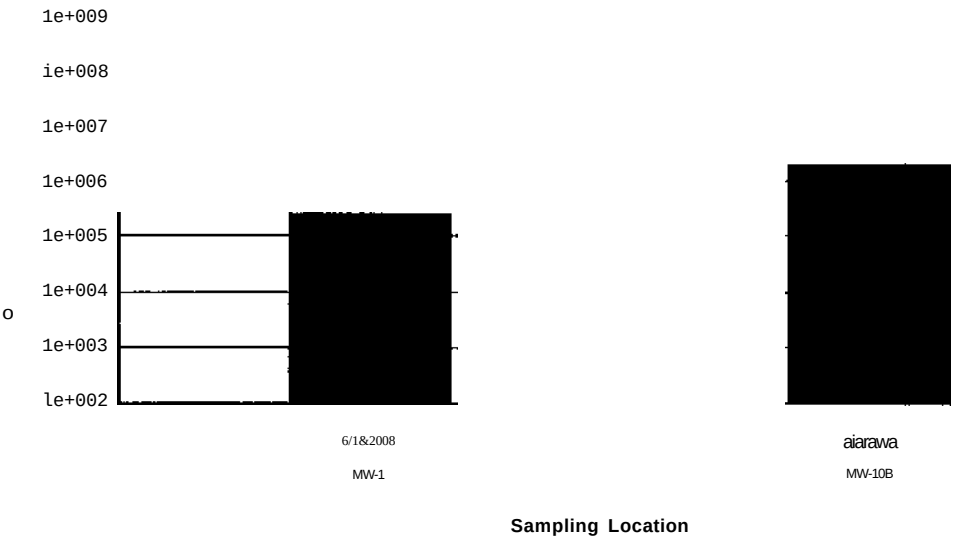


Figure 1. Biomass content is presented as a cell equivalent based on the total amount of phospholipid fatty acids (PLFA) extracted from a given sample. Total biomass is calculated based upon PLFA attributed to bacterial and eukaryotic biomass (associated with higher organisms).



Figure 2. Relative percentages of total PLFA structural groups in the samples analyzed. Structural groups are assigned according to PLFA chemical structure, which is related to fatty acid biosynthesis.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
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Q Potential (DNA)

Client: ECOR Solutions
Project: Byron Barrel

MI Project Number: 042FF
Date Received: 06/19/2008

Sample Information

Client Sample ID:	MW-1	MW-10B
Sample Date:	06/18/2008	06/18/2008
Units:	cells/bead	cells/bead

Dechlorinating Bacteria

Dehalococcoides spp (1)	DHC	<2.5E+01	<2.5E+01
DesurTuromonas spp.	DSM	<5E+01	2.38E+02
Dehalobacter spp.	DHB	4.28E+04	7.99E+02
Desulfotobacterium sp.	DS8	2.48E+02	1.84E+04

Functional Genes

TCE R-Dase (1)	TCE	<2.5E+01	<2.5E+01
BAV1 VC R-Dase (1)	BVC	<2.5E+01	<2.5E+01
VC R-Dase	VCR	<2.5E+01	<2.5E+01

>hylogenetic Group

Eubacteria	EBAC	8.38E+07	2.09E+07
Methanogens	MGN	4.82E+05	6.23E+03
Sulfate & Iron Reducing Bacteria	IRB/SRB	5.35E+07	7.25E+06
Methanotrophs (total)	MOB	5.4E+05	4E+05
Type I MOB	MOB!	2.61 E+04	8.1E+02
Type II MOB	MOB! I	5.14E+05	3.99E+05
Denitrifying Bacteria (nirK)	nirK	5.99E+04	6.86E+03
Denitrifying Bacteria (nirS)	nirS	8.95E+05	2.91 E+04

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Notes:

1 Bio-Dechlor Census technology was developed by Dr. Loeffler and colleagues at Georgia Institute of Technology and was licensed for use through Regenesys.



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a a

Name: WILL TROTT
Company: EPCO SOUTHERN
Address: 1057 ADELPHI DRIVE
SOUTH F.
MEMPHIS TENN 38106
Phone: (601) 991-0730

Purchasing Order No. 01545.100
Subcontract No. _____

☐ Historical (50% purchase)

Name: KEITH KOP
 Company: Fire Solutions
 Address: 301 Cedar Ave N
Woodbury MN
55128
 email: Keith@fcsolutions.net
 Phone: (651) 735-6450
 Fax: _____

Project Manager: Keith Bell
Project Name: Bryan Barrick
Project No.: Q345.100

Report type: ☒ Standard (default) ☐ Comprehensive (15% surcharge)

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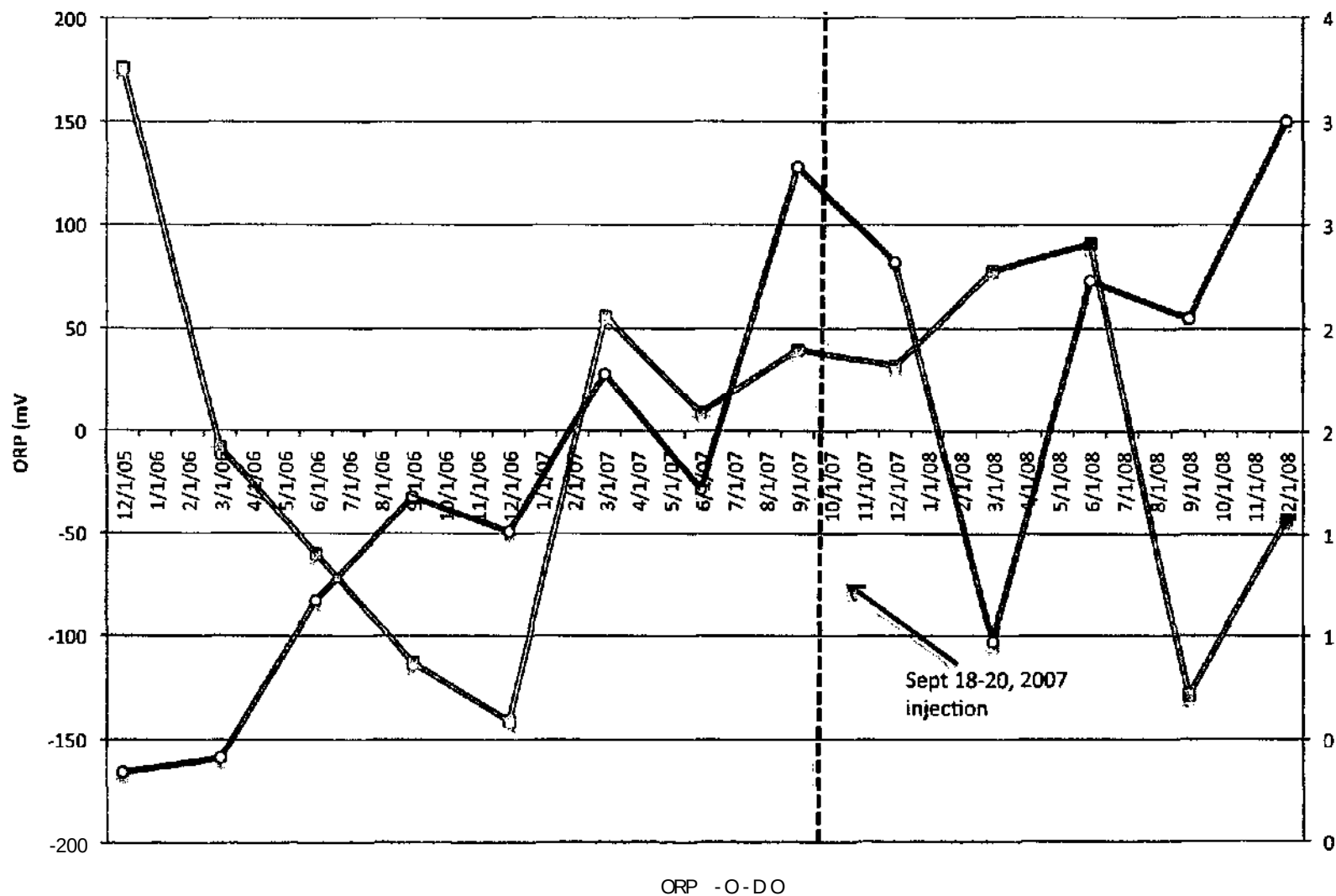
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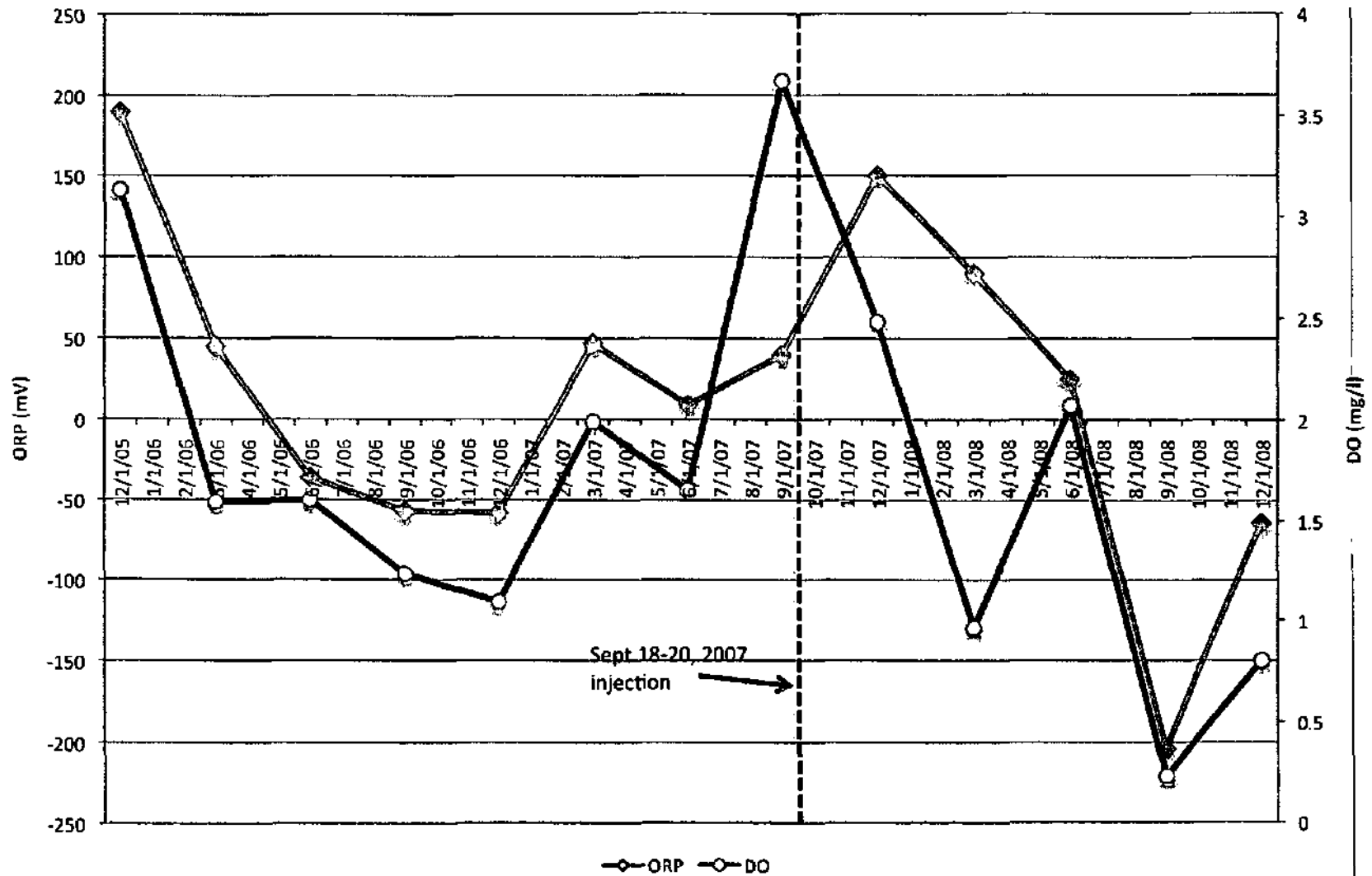
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APPENDIX F
ERD Well Graphs

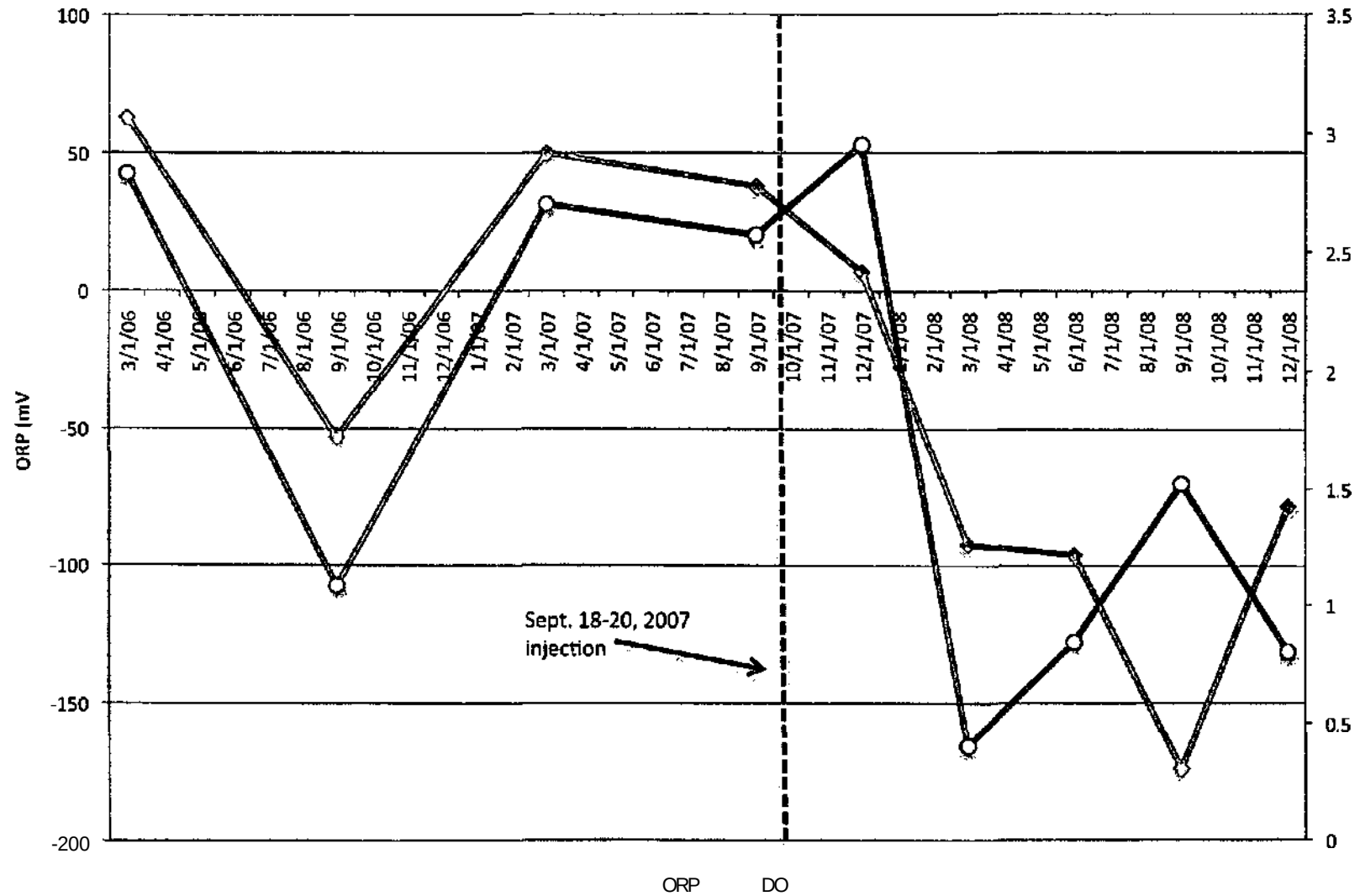
Byron Barrel & Drum MW-1 DO & ORP Monitoring



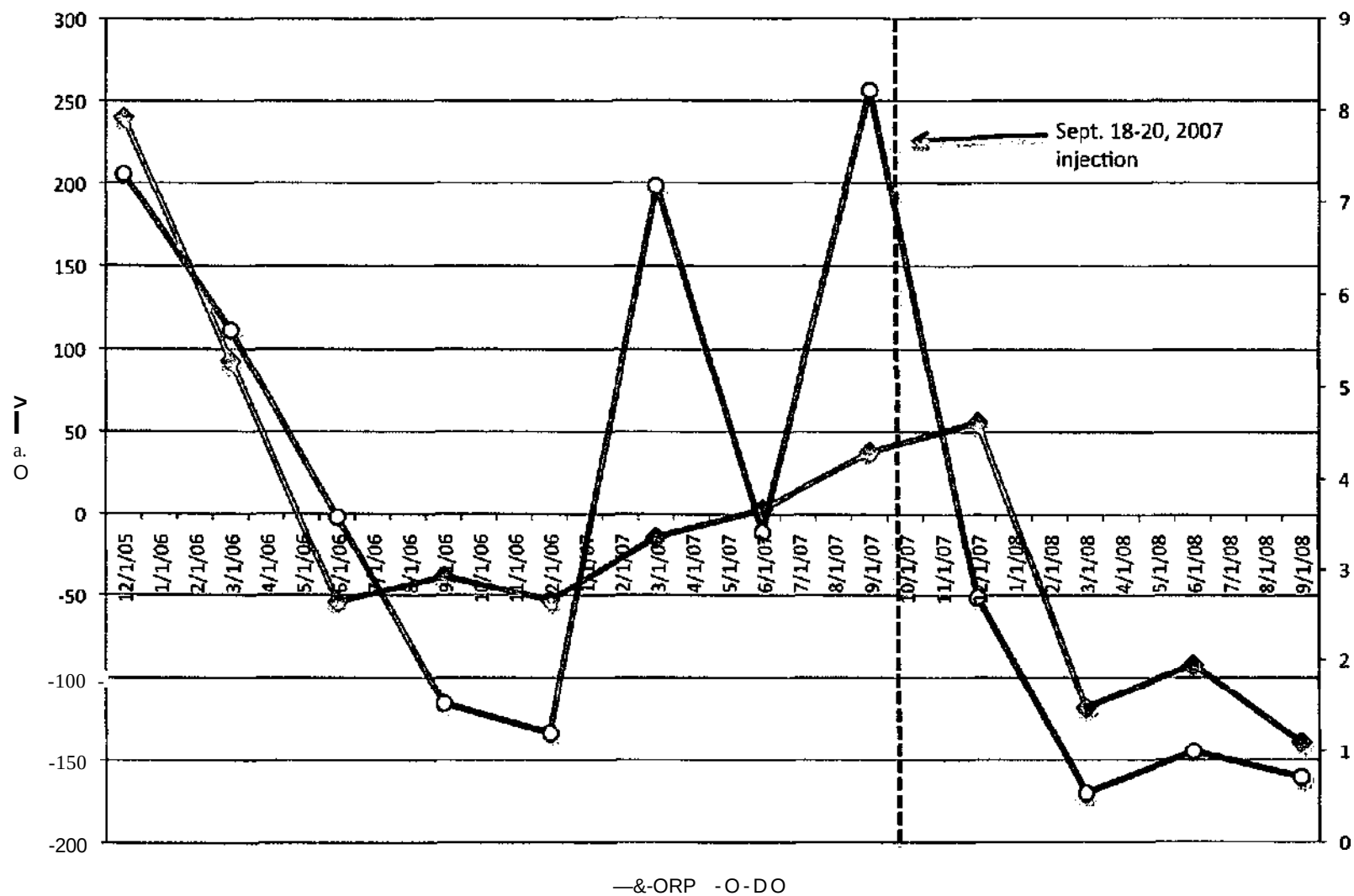
Byron Barrel & Drum MW-4 DO & ORP Monitoring



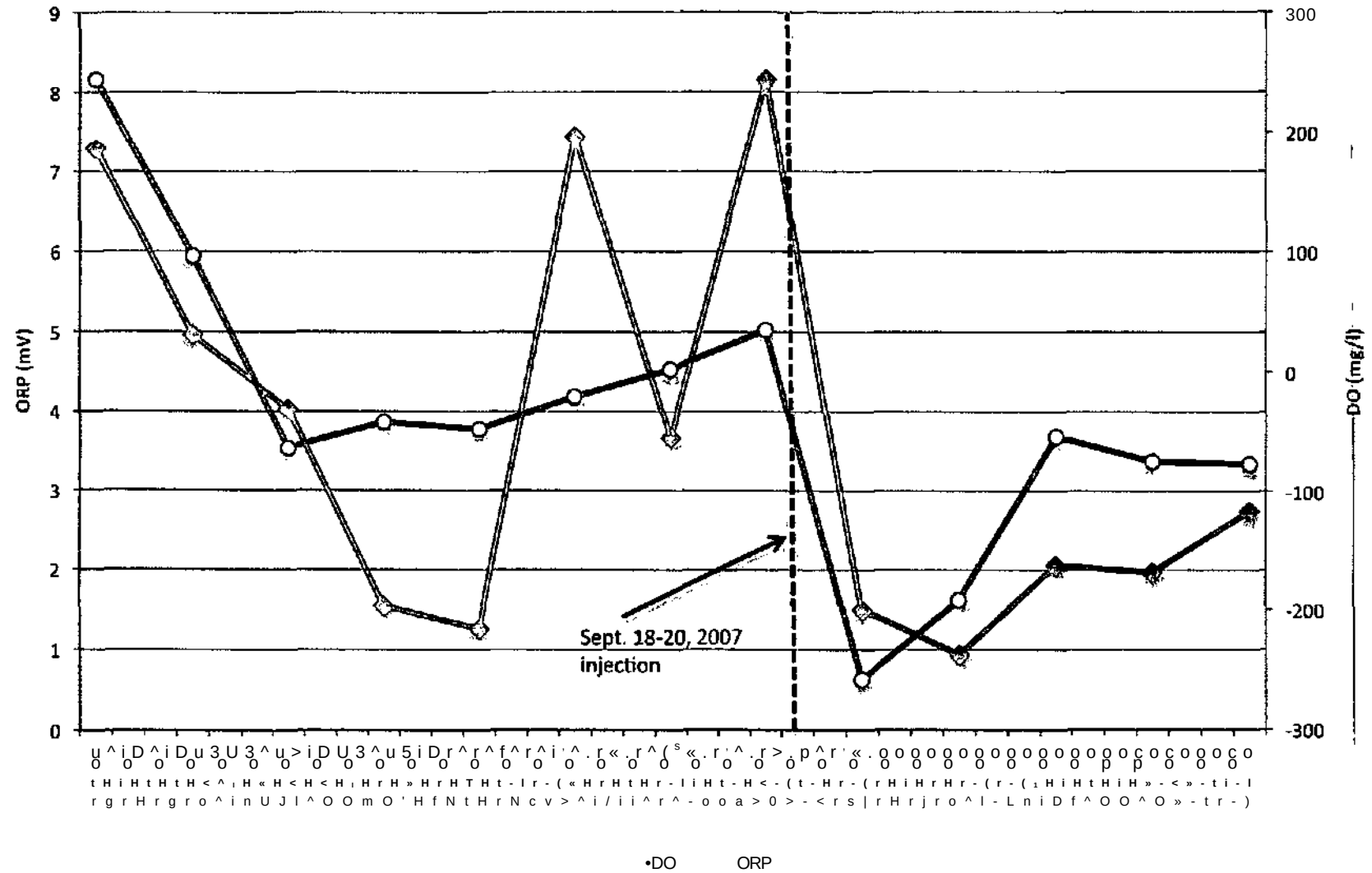
Byron Barrel & Drum MW-IOB DO & ORP Monitoring



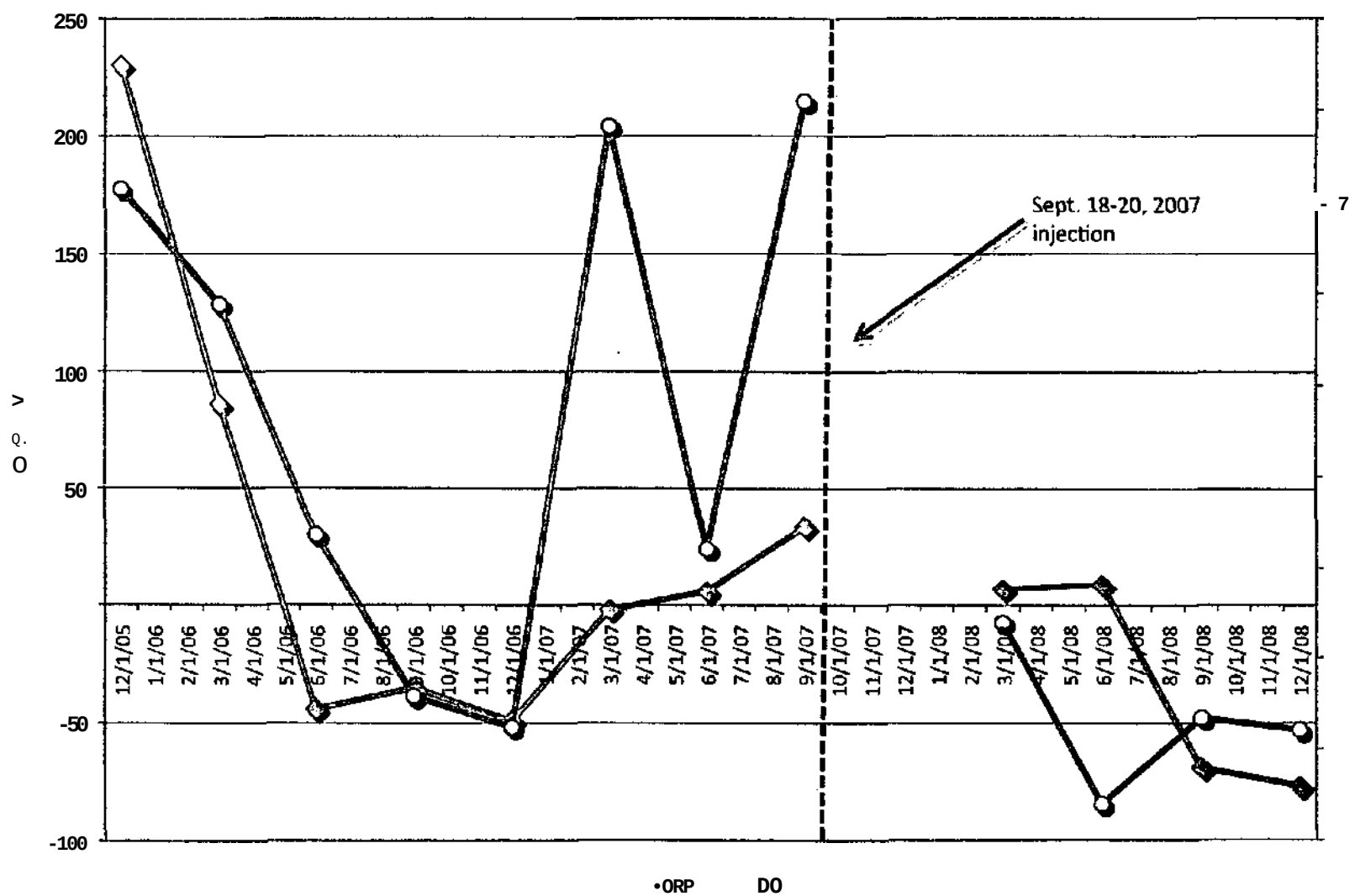
Byron Barrel & Drum PW-2 DO & ORP Monitoring



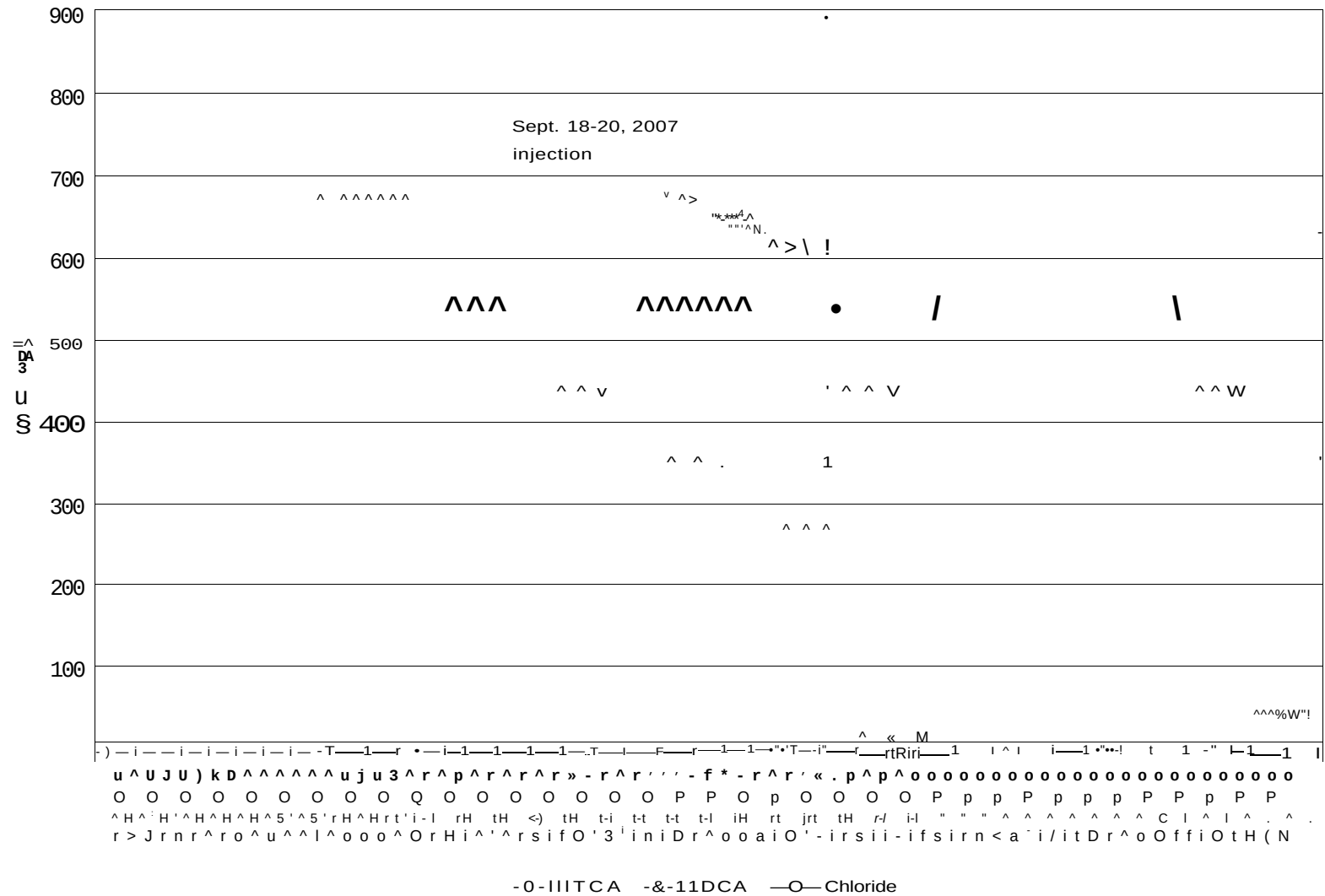
Byron Barrel & Drum PW-1 DO & ORP Monitoring



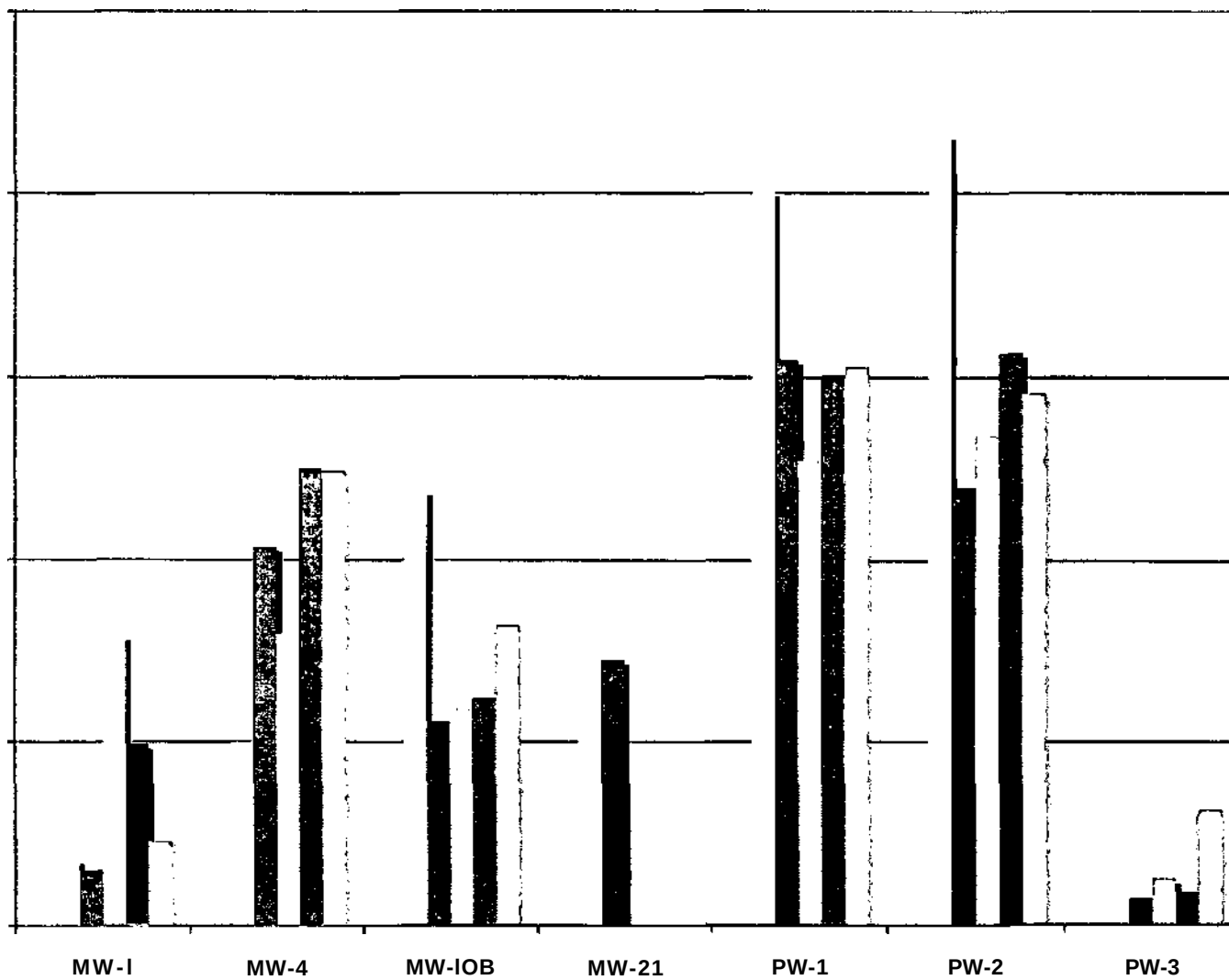
Byron Barrel & Drum PW-3 DO & ORP Monitoring



MW-1 Chloride Concentrations



Byron Barrel & Drum TOC Concentrations



END

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