

**REMEDIATION UPDATE REPORT  
FOR  
AUGUST 2007 – FEBRUARY 2008**

**INVISTA S.à.r.l.  
NORTH TERMINAL – PARAXYLENE FACILITY  
3325 RIVER ROAD  
WILMINGTON, NORTH CAROLINA**

**JUNE 19, 2008**

**PREPARED ON BEHALF OF:  
FLINT HILLS RESOURCES, LP**

**CATLIN PROJECT NO. 201-125**



**PREPARED BY:  
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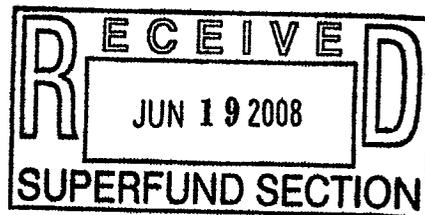
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June 19, 2008

North Carolina Department of Environment  
and Natural Resources  
Division of Waste Management  
Attn: Ms. Genevieve M. Henderson, P.G.  
127 Cardinal Drive Extension  
Wilmington, North Carolina 28405-3845



**Re: Remediation Update Report for August 2007 to February 2008  
INVISTA S.à.r.l. - North Terminal – Paraxylene Facility  
Wilmington, North Carolina  
CATLIN Project No. 201-125**

Dear Ms. Henderson:

On behalf of Flint Hills Resources, LP, attached is the Remediation Update Report concerning the above-referenced site and time period. The North Terminal is currently owned by INVISTA S.à.r.l., but was previously owned by Flint Hills Resources, LP (FHR). This report is being sent to keep you informed of the investigations and changes being implemented at the site. We further understand that you are not able to provide us with official approval because this site is not officially in a program within your branch. We understand that the Inactive Hazardous Sites Branch is currently negotiating with FHR for this site to be a part of the Registered Environmental Consultant (REC) Program.

Given the unofficial status of the applicable program for this site, we appreciate your willingness to review this report and to alert us if you disagree with any part of it. Upon your review of this report, please contact Mrs. Elizabeth Page at (817) 685-3424 or Mr. Jeff Becken at CATLIN Engineers and Scientists at (910) 452-5861 if you should have any questions concerning this project.

Sincerely,

Jeffery K. Becken, P.E.  
Project Manager

Stephan A. Tyler, P.G.  
Project Geologist

**Enclosure**

CC: Mrs. Elizabeth Page, P.G. - Reiss Remediation, LLC (w/ encl.)  
Ms. Nicole Cory – Flint Hills Resources, LP (w/ encl.)  
Ms. Donna Lazzari – Invista S.à.r.l. (w/ encl.)  
Mr. Todd Walton – North Carolina State Ports Authority (w/ encl.)  
Ms. Catherine Warner – Groundwater & Environmental Service of North Carolina, Inc. (w/ encl.)  
Mr. Dan Shine – Sunoco (w/ encl.)

## TABLE OF CONTENTS

	<u>PAGE</u>
1.0 INTRODUCTION	1
1.1 PURPOSE	1
1.2 SITE INFORMATION	2
2.0 PARAXYLENE FACILITY	3
2.1 PARAXYLENE FACILITY BACKGROUND	3
2.1.1 Brief Incident History	3
2.1.2 Contaminants of Concern	3
2.2 ADDITIONAL ASSESSMENT ACTIVITIES	3
2.3 PARAXYLENE FACILITY MONITORING PLAN	4
2.4 PARAXYLENE FACILITY UPDATE	4
2.4.1 Soil	4
2.4.2 Groundwater	4
2.4.3 Free-Phase PX Data	9
3.0 FUTURE ACTIVITIES AND RECOMMENDATIONS	9

### TABLES

TABLE 1	SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008
TABLE 2	SUMMARY OF DISSOLVED OXYGEN MEASUREMENTS FROM SELECTED MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008
TABLE 3	SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS – GROUNDWATER
TABLE 4	SUMMARY OF MTBE LABORATORY RESULTS – GROUNDWATER

### FIGURES

FIGURE 1	GENERAL LOCATION USGS TOPOGRAPHIC QUADRANGLE
FIGURE 2	SITE MAP
FIGURE 3	CURRENT LAYOUT OF SITE AT PARAXYLENE FACILITY AS OF FEBRUARY 2008
FIGURE 4	GROUNDWATER CONTOURS AT PARAXYLENE FACILITY AS OF FEBRUARY 2008
FIGURE 5	DISSOLVED OXYGEN LEVELS AT PARAXYLENE FACILITY FOR FEBRUARY 2008 SAMPLING EVENT
FIGURE 6	GROUNDWATER M/P XYLENE CONTOURS AT PARAXYLENE FACILITY AS OF FEBRUARY 2008

**TABLE OF CONTENTS (CONTINUED)**

**APPENDICES**

<b>APPENDIX A</b>	<b>GROUNDWATER ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS</b>
<b>APPENDIX B</b>	<b>GRAPHS – GROUNDWATER QUALITY DATA FOR SELECTED MONITORING WELLS</b>

**REMEDIATION UPDATE REPORT  
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**INVISTA S.à.r.l.  
NORTH TERMINAL – PARAXYLENE FACILITY  
3325 RIVER ROAD  
WILMINGTON, NORTH CAROLINA**

**JUNE 19, 2008**

**1.0 INTRODUCTION**

**1.1 PURPOSE**

CATLIN Engineers and Scientists (CATLIN) is submitting this Remediation Update Report on behalf of Flint Hills Resources, LP (FHR) for the INVISTA S.à.r.l. (Invista) North Terminal - Paraxylene (PX) Facility at 3325 River Road, Wilmington, North Carolina (see Figure 1). FHR sold the operations to an affiliate company, Invista, on June 1, 2006. However, FHR retained the obligations regarding remediation of site groundwater areas of concern that originated prior to the operations transfer. In this report, the Invista North Terminal – PX facility project site will be referred to as the PX Facility.

The purpose of this report is to update the status of the subsurface soil and groundwater remediation activities and to present environmental findings for the period of August 2007 through February 2008 at the PX Facility project site.

Current remediation activities at the PX Facility are in accordance with the activities presented within the June 2005 Revised Remedial Action Plan. Titles of applicable remedial action documents have been listed in the table below.

<b>Document</b>	<b>Date</b>	<b>Author</b>	<b>Comments</b>
Corrective Action Plan Addendum (CAPA)	August 9, 2002	FHR	Document updates remediation plans for the subsurface soils and groundwater remediation at two areas of concern (PX Facility and Loading Rack Area)
Statement of General Agreement	October 2002	NCDENR APS	Regulatory agreement with August 2002 plan
Revised Remedial Actions for FHR North Site (Letter only)	March 5, 2004	FHR	Revised to include chemical oxidation
Revised Remedial Action Plan	June 2, 2005	FHR	Provided details for chemical oxidation application
Approval of June 2005 Revised Remedial Action Plan	June 7, 2005	NCDENR APS	Regulatory agreement with revised remedial actions

Semi-Annual Remediation Update Reports	Various	FHR	Minor modifications to the active remedial system layout and monitoring schedule are typically included within these reports with regulatory response accordingly
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NCDENR APS – North Carolina Department of Environment and Natural Resources Aquifer Protection Section

In accordance with a memorandum dated March 14, 2007 from Mr. Alan W. Klimek, P.E. of the North Carolina Department of Natural Resources (NCDENR), Division of Water Quality (DWQ) an agreement effective February 20, 2007 was reached between the DWQ and the Division of Waste Management (DWM) which consolidated responsibilities for managing soil and groundwater contamination incidents. The DWQ and the DWM agreed to changes in responsibilities for each division. As a result of this action, regulatory responsibility for the PX Facility was transferred from the Aquifer Protection Section (APS) to the Inactive Hazardous Sites Branch (IHSB). In response to a September 13, 2007 correspondence request from IHSB, FHR and CATLIN submitted a Voluntary Cleanup Checklist (VCC) concerning the above referenced site on October 19, 2007. This VCC was prepared based on our knowledge at that time of the on-site conditions, while assuming that off-site conditions were being addressed by others. IHSB has evaluated the VCC, approved the subject site for the Registered Environmental Consultant (REC) Program and is currently negotiating an Administrative Agreement (AA) with FHR for this site.

## 1.2 SITE INFORMATION

The North Terminal project site is a bulk chemical storage and transfer facility, which occupies an area of approximately thirty-seven acres. Thirty-three of the thirty-seven acres are located on the east side of River Road and are owned by Invista. The remaining four acres are located west of River Road and are owned by FHR. The North Terminal is subdivided into four areas of environmental concern. These areas of concern are identified as the PX Facility, the Gasoline/#2 Fuel Oil Facility, the Loading Rack Area and the Water Treatment Plant (WTP) Area. The PX Facility site vicinity location is referenced on the attached Figure 1. Figure 2 illustrates the location of each area of environmental concern. However, due to the previous referenced division of responsibilities at NCDENR, this report only covers activities within the PX Facility of the North Terminal.

The PX Facility has seven active aboveground storage tanks (ASTs) and associated pipelines for the storage and transfer of PX. In addition, there is an inactive PX truck loading rack and an active railcar loading rack area. The railcar loading area was active during the reporting period addressed in this report.

## **2.0 PARAXYLENE FACILITY**

### **2.1 PARAXYLENE FACILITY BACKGROUND**

#### **2.1.1 Brief Incident History**

Since Phillips Petroleum constructed the North Terminal facility in 1954/1955, it has been utilized to handle PX. Since 1954/1955, there have been several product releases at the subject site. Former and ongoing assessment, remediation and monitoring activities for product releases since 1980 have been well documented and are on file at the NCDENR Wilmington Regional Office (WiRO). Off-site areas of concern due to product releases by previous site owners/operators are being addressed by others. This report focuses on the current PX remediation efforts within the PX Facility from August 2007 through February 2008.

#### **2.1.2 Contaminants of Concern**

NCDENR has agreed that dissolved PX as the primary contaminant of concern at the PX Facility. PX is one of three Xylene isomers (ortho, meta, and para). Currently, analytical laboratories do not have the technology to accurately distinguish between metaxylenes and PX compounds. Since the source is known to be PX, all soil and groundwater samples are analyzed for meta/para (M/P) Xylenes and the resulting concentration is assumed to be PX.

The goal for groundwater remediation is to reduce dissolved M/P Xylenes concentrations to the 15A NCAC 2L.0202 North Carolina Groundwater Quality Standard (2L GWQS) of 530 micrograms per Liter ( $\mu\text{g/L}$ ) or for PX remediation data (graphical representation) to reach an asymptotic trend. PX Facility groundwater samples are analyzed by an independent analytical laboratory for M/P Xylenes concentration in  $\mu\text{g/L}$  per EPA Method 8260B to monitor the dissolved PX concentrations.

## **2.2 ADDITIONAL ASSESSMENT ACTIVITIES**

Other than the scheduled monitoring activities, no additional assessment activities were conducted at the PX Facility Site during the current reporting period.

## 2.3 PARAXYLENE FACILITY MONITORING PLAN

### Monthly

The following monthly activities were completed:

- Check and maintain operation of the air sparge wells.

### Semi-Annual (February and August)

The following semi-annual activities were completed in addition to the tasks performed on a monthly basis:

- Obtained representative groundwater samples from selected site monitoring wells (MW-1, MW-2, MW-3, MW-5, MW-8, MW-10, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-28, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, 101, 102, 105, 106, 107, 108, 113, 117, and 119) for M/P Xylenes and MTBE analysis per EPA Method 8260B. Monitoring wells are selected to provide data concerning PX plume boundary and historical concentration high conditions.
- In order to monitor the effectiveness of the air sparge system, dissolved oxygen concentrations were obtained from groundwater of selected monitoring wells (MW-2, MW-3, MW-12, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-32, MW-33, MW-35, MW-36, 101, 102, 105, 106, 107, 108, 113, and 117 ).
- Submit a semi-annual Remediation Update Report.

## 2.4 PARAXYLENE FACILITY UPDATE

### 2.4.1 Soil

A Soil Vapor Extraction (SVE) system to remove remnant PX from subsurface soils west of AST 301 was operated from March 21, 1995 through January 2003. Operation of the SVE system was discontinued due to the minimal M/P Xylene concentrations in the SVE exhaust and pending implementation of other planned remediation activities. This change in remedial approach was initiated by an equipment failure. A description of this SVE approach and the remedial progress prior to shut down has been documented in previous Remediation Update Reports.

### 2.4.2 Groundwater

#### 2.4.2.1 Groundwater Remedial Approach

The remedial approach implemented within the PX Facility during the time period from August 2007 through February 2008 included the use of various air sparge techniques in combination with natural attenuation.

The site air sparge system utilizes two methods (continuous and pulse air sparge) as illustrated on the attached Figure 3. Networks A, B and C were operated as a continuous sparge system during the time period of this report.

The Pulse Air Sparge (PAS) Network, which is in current operation, initially consisted of three pulse sparge wells in the vicinity of monitoring well MW-19. Since August 2007, the PAS Network has been expanded as illustrated on Figure 3 to further aid in decreasing the contaminant level present at the PX Facility. PAS Network Zone 1 consists of seven (7) sparge wells (SP-01 through SP-07) continuing south, parallel to the fence line in the Northwest corner of the property. PAS Network Zone 2 consists of ten (10) pulse air sparge wells (SP-08 through SP-17) and is located from the northern property boundary towards the south, near Network B continuous air sparge wells and down gradient of monitoring well KRW-5. Operation of the entire Pulse Network has been occurring since November 2007.

The PAS system was operational 95% (assuming 5% off time for general maintenance and upgrade activities) of the time referenced within this report.

Chemical oxidation activities were conducted from October 2004 to July 2006. These activities consisted of the application of a Fenton's reagent with a water chaser via a series of trenches located throughout the PX Facility. The locations of these trenches were in areas that had experienced M/P Xylene concentrations above 100,000 ppb at that time. The benefits of the chemical oxidation activities have been documented in previous Remediation Update Reports.

#### **2.4.2.2 Groundwater Recovery Data**

The remedial approach was modified with NCDENR approval to address the contaminant plume within the PX Facility without pumping groundwater. This was done for several reasons. The use of recovery wells was no longer necessary to address free-phase product because free-phase product has not been observed in a monitoring or recovery well at the PX Facility since December 2004. Further, a new remedial approach was more appropriate in light of modifications to the FHR WTP and limitations to its

capacity to handle water from the PX Facility, as well as the changes in property ownership. With NCDENR approval, the pumps in the six recovery wells illustrated on Figure 3 (KRW-3, KRW-4, KRW-5, KRW-6, KRW-7 and KRW-8) were turned off in February of 2005. The recovery wells were converted to monitoring wells in November 2006.

#### **2.4.2.3 Groundwater Table Data**

On February 20, 2008 selected monitoring wells were gauged for depth to water and potential free-phase product. The monitoring wells selected for the measurement of groundwater table elevations were based on the recommendations of the previous Remediation Update Report. Table 1 lists a summary of the water table data and interpolated water table isocontour elevations have been illustrated on Figure 4. The interpolated groundwater migration trend within the PX Facility is predominantly to the west-northwest. This migration trend is consistent with historical site groundwater data.

#### **2.4.2.4 Dissolved Oxygen Data**

The goal of an air sparge system is to remediate organic constituents from impacted groundwater by volatilization and biodegradation from indigenous aerobic microbes. Groundwater aerobic conditions are assessed by monitoring the dissolved oxygen (DO) levels within site monitoring wells. Aerobic conditions are generally indicated by groundwater with DO levels greater than one (1) milligrams per liter (mg/L).

The latest (February 2008) groundwater DO concentration data has been summarized in Table 2 and illustrated on Figure 5. This data was obtained through the use of an YSI multi-parameter meter. The monitoring wells selected for the measurement of DO were based on the recommendations of the previous Remediation Update Report.

Dissolved oxygen concentrations of monitoring wells associated with the monitoring of the air sparge networks have been summarized as follows:

<b>Network</b>	<b>Monitoring Wells</b>	<b>DO Range (mg/L)</b>
A	MW-17, MW-18*, MW-20	4.71 to 9.73
B	106, 107, MW-14	0.30 to 0.66
C	MW-32, MW-33	5.88 to 8.42
Pulse Zone 1	MW-18*, MW-19	6.82 to 8.05
Pulse Zone 2	102, 105, 117, MW-2, MW-15	0.19 to 1.43
Background wells	101, 108, 113, MW-3, MW-12, MW-16, MW-35, MW-36,	0.37 to 0.81

\* Note: Monitoring well is within the influence of multiple networks.

Active remediation efforts are volatilizing constituents as well as maintaining groundwater DO concentrations at favorable levels for aerobic biodegradation and within the influence of air sparging, which allows for volatilization to also occur. The low DO in the background wells in comparison to the much higher DO in the applicable monitoring wells is further indication that the remediation system is performing as designed.

#### **2.4.2.5 Dissolved COC Concentration Data**

CATLIN personnel obtained the latest representative groundwater samples from selected monitoring wells on February 21 through 25, 2008. Prior to obtaining a groundwater sample, each monitoring well was developed a minimum of three well volumes utilizing a disposable bailer. The selected monitoring wells were based on the recommendations of the previous Remediation Update Report. All groundwater samples from the February 2008 sample event were submitted to Test America Laboratories Inc. in Savannah, Georgia for analysis of dissolved M/P Xylenes and MTBE concentrations per EPA Method 8260B. A copy of the laboratory report and Chain-of-Custody has been provided in Appendix A. Results of the latest, as well as a portion of the historical, M/P Xylenes concentration data have been summarized on Table 3 and graphically represented in Appendix B. Table 4 summarizes the MTBE historical concentration data. The current interpolated horizontal extent of dissolved M/P Xylenes within the site groundwater has been illustrated on Figure 6.

While results have fluctuated over time, a comparison of this data to historical data continues to illustrate an overall decreasing trend. This overall decreasing trend supports the efficiency of the existing air sparge networks, the previously completed chemical oxidation activities and natural attenuation.

Active remedial efforts along the down gradient property boundary have been predominantly successful. FHR voluntarily implemented a more frequent sampling program of MW-19 between March 2006 and May 2006 to evaluate the efficiency of the PAS System and the chemical oxidation activities. Following the August 2006 semi-annual monitoring event, FHR voluntarily implemented a monthly sampling program until August 2007 and then bi-monthly to continue to monitor the M/P Xylenes trend in this area. The laboratory data collected for MW-19 during the time period of this report is included herein. This data continues to illustrate a decrease of M/P Xylenes from 162,000 µg/L in the March 2006 sampling event to less than 2L GWQS since March 2007. The PAS system has been expanded in the vicinity of MW-19 in order to continue to maintain a low concentration buffer along the down gradient property boundary.

Following the reporting of the August 2006 sampling event, CATLIN conducted contaminant transport modeling to simulate the transport of dissolved total Xylenes. The transport modeling evaluated the groundwater PX concentrations over time. In the model a buffer area with groundwater PX concentrations below the current 2L GWQS (530 ug/l) was established on the downgradient side of the property and the upgradient portion was remediated by natural attenuation. Based on the August 2006 modeling and on FHR's desire to ensure contamination does not migrate off-site, the PAS Network was expanded as documented within this Report.

The August 2006 model was updated following the August 2007 sampling event to represent the groundwater conditions at that time as referenced in the previous Remediation Update Report. The updated model indicated that via natural attenuation, the total Xylene concentrations would meet current 2L GWQS (530 ug/L) within 8 to 10 years and would not leave the North Terminal – PX Facility project site if the groundwater PX concentrations in the area downgradient of the approximate location of KRW-5

were below 2L GWQS. Our knowledge of the project site leads us to believe that this time period is most likely underestimated. However, model simulations continue to indicate so long as groundwater contamination is remediated down gradient of monitoring well KRW-5, migration off the property of total Xylene concentrations above 2L GWQS off-site is unlikely. Additional model simulations are recommended in the future to allow for additional calibration of the accuracy of the model and analysis of the progress toward effectively achieving the cleanup goals for the site. A detailed description of the site modeling variables and results are provided in the previous Remediation Update Report.

#### **2.4.3 Free-Phase PX Data**

Free-phase product was last detected at a PX Facility monitoring or recovery well on December 8, 2004.

### **3.0 FUTURE ACTIVITIES AND RECOMMENDATIONS**

- Monitoring and operation of air sparge system as follows:
  - 1) Networks A, B and C continue to operate as a continuous air sparge system.
  - 2) Pulse Networks 1 and 2 continue to operate as a PAS system.
- Based on the data presented within this report, dissolved groundwater contamination within monitoring well MW-19 of M/P Xylenes has significantly decreased from the highest concentration in March 2006 to below 2L GWQS in the February 2008 sampling event. The bi-monthly sampling program will be reduced to a quarterly program for the time being to ensure rebound does not occur at the down gradient boundary.
- Since MTBE data has been below detection limits or 2L GWQS since February 2006, we recommend discontinuing sampling for MTBE parameters. This modification to the monitoring plan will be implemented as part of the August 2008 sampling event unless notified otherwise by IHSB.
- Conduct contaminant transport modeling following the August 2008 sampling event. Future modeling should be considered following all future August sampling events.

The following monitoring wells will be sampled during the next semi-annual sampling event in August 2008:

MW-1, MW-2, MW-3, MW-5, MW-8, MW-10, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-28, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, 101, 102, 105, 106, 107, 108, 113, 117, and 119 for M/P Xylenes per EPA Method 8260B. Monitoring wells are selected to provide data concerning PX plume boundary and historical high concentration conditions.

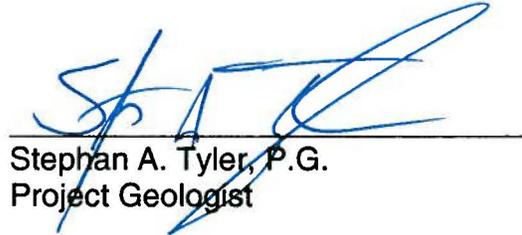
Groundwater at the following monitoring wells will be field gauged for DO:

MW-2, MW-3, MW-12, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-32, MW-33, MW-35, MW-36, 101, 102, 105, 106, 107, 108, 113 and 117.



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Jeffery K. Becken, P.E.  
Project Manager



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Stephan A. Tyler, P.G.  
Project Geologist

## **TABLES**

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED**  
**MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

DATA POINT	DATE DATA COLLECTED	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE-PHASE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (in feet)
<b>TYPE II MONITORING WELLS</b>						
MW-1	8/2/2006	39.45	8.80	NMT	NA	30.65
	2/5/2007		6.75	NMT	NA	32.70
	8/8/2007		9.27	NMT	NA	30.18
	2/20/2008		10.44	NMT	NA	29.01
MW-2	8/2/2006	29.11	3.80	NMT	NA	25.31
	2/5/2007		2.25	NMT	NA	26.86
	8/8/2007		4.48	NMT	NA	24.63
	2/20/2008		5.13	NMT	NA	23.98
MW-3	8/2/2006	37.84	8.61	NMT	NA	29.23
	2/5/2007		6.76	NMT	NA	31.08
	8/8/2007		9.02	NMT	NA	28.82
	2/20/2008		10.13	NMT	NA	27.71
MW-4	8/2/2006	33.84	8.21	NMT	NA	25.63
	2/5/2007		6.65	NMT	NA	27.19
MW-5	8/2/2006	39.56	8.30	NMT	NA	31.26
	2/5/2007		6.15	NMT	NA	33.41
	8/8/2007		8.76	NMT	NA	30.80
	2/20/2008		9.97	NMT	NA	29.59
MW-6	NA	38.92	NM			
MW-7	NA	38.71	ABANDONED			
MW-8	8/2/2006	39.85	10.20	NMT	NA	29.65
	2/5/2007		6.64	NMT	NA	33.21
	8/8/2007		9.17	NMT	NA	30.68
	2/20/2008		10.35	NMT	NA	29.50
MW-9	NA	36.88	NM			
MW-10	8/2/2006	35.45	5.40	NMT	NA	30.05
	2/5/2007		3.39	NMT	NA	32.06
	8/8/2007		5.79	NMT	NA	29.66
	2/20/2008		6.86	NMT	NA	28.59
MW-11	8/2/2006	37.37	7.76	NMT	NA	29.61
	2/5/2007		5.90	NMT	NA	31.47
MW-12	8/2/2006	35.23	7.29	NMT	NA	27.94
	2/5/2007		5.41	NMT	NA	29.82
	8/8/2007		8.07	NMT	NA	27.16
	2/20/2008		9.31	NMT	NA	25.92

TABLE 1						
SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008						
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA						
DATA POINT	DATE DATA COLLECTED	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE-PHASE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (in feet)
MW-13	8/2/2006	33.90	7.50	NMT	NA	26.40
	2/5/2007		5.83	NMT	NA	28.07
	8/8/2007		7.97	NMT	NA	25.93
	2/20/2008		9.55	NMT	NA	24.35
MW-14	8/2/2006	29.39	4.87	NMT	NA	24.52
	2/5/2007		3.53	NMT	NA	25.86
	8/8/2007		5.60	NMT	NA	23.79
	2/20/2008		6.38	NMT	NA	23.01
MW-15	8/2/2006	28.82	5.83	NMT	NA	22.99
	2/5/2007		4.47	NMT	NA	24.35
	8/8/2007		6.74	NMT	NA	22.08
	2/20/2008		7.26	NMT	NA	21.56
MW-16	8/2/2006	28.21	5.61	NMT	NA	22.60
	2/5/2007		4.31	NMT	NA	23.90
	8/8/2007		6.45	NMT	NA	21.76
	2/20/2008		6.87	NMT	NA	21.34
MW-17	8/2/2006	25.57	3.35	NMT	NA	22.22
	2/5/2007		1.41	NMT	NA	24.16
	8/8/2007		3.28	NMT	NA	22.29
	2/20/2008		3.88	NMT	NA	21.69
MW-18	8/2/2006	26.92	8.60	NMT	NA	18.32
	2/5/2007		6.50	NMT	NA	20.42
	8/8/2007		8.95	NMT	NA	17.97
	2/20/2008		9.81	NMT	NA	17.11
MW-19	8/2/2006	27.59	7.95	NMT	NA	19.64
	2/5/2007		8.70	NMT	NA	18.89
	3/30/2007		9.38	NMT	NA	18.21
	5/25/2007		10.80	NMT	NA	16.79
	7/2/2007		10.66	NMT	NA	16.93
	8/8/2007		9.98	NMT	NA	17.61
	10/26/2007		10.67	NMT	NA	16.92
	2/20/2008		11.15	NMT	NA	16.44
MW-20	8/2/2006	29.29	10.51	NMT	NA	18.78
	2/5/2007		8.62	NMT	NA	20.67
	8/8/2007		11.28	NMT	NA	18.01
	2/20/2008		11.82	NMT	NA	17.47
MW-28	8/2/2006	36.41	6.63	NMT	NA	29.78
	2/5/2007		4.38	NMT	NA	32.03
	8/8/2007		7.66	NMT	NA	28.75
	2/20/2008		8.96	NMT	NA	27.45

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED**  
**MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

DATA POINT	DATE DATA COLLECTED	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE-PHASE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (in feet)
MW-30	NA	35.20	NOT LOCATED			
MW-32	8/2/2006	33.69	7.78	NMT	NA	25.91
	2/5/2007		6.16	NMT	NA	27.53
	8/8/2007		9.35	NMT	NA	24.34
	2/20/2008		9.76	NMT	NA	23.93
MW-33	8/2/2006	35.16	9.41	NMT	NA	25.75
	2/5/2007		5.51	NMT	NA	29.65
	8/8/2007		11.55	NMT	NA	23.61
	2/20/2008		10.48	NMT	NA	24.68
MW-34	8/2/2006	33.89	6.64	NMT	NA	27.25
	2/5/2007		4.97	NMT	NA	28.92
	8/8/2007		7.68	NMT	NA	26.21
	2/20/2008		8.83	NMT	NA	25.06
MW-35	8/2/2006	28.41	2.70	NMT	NA	25.71
	2/5/2007		1.75	NMT	NA	26.66
	8/8/2007		3.27	NMT	NA	25.14
	2/20/2008		3.67	NMT	NA	24.74
MW-36	8/2/2006	35.46	7.90	NMT	NA	27.56
	2/5/2007		4.35	NMT	NA	31.11
	8/8/2007		6.21	NMT	NA	29.25
	2/20/2008		7.25	NMT	NA	28.21
MW-37	8/2/2006	36.26	7.10	NMT	NA	29.16
	2/5/2007		3.87	NMT	NA	32.39
	8/8/2007		6.30	NMT	NA	29.96
	2/20/2008		6.85	NMT	NA	29.41
101	8/2/2006	28.88	3.55	NMT	NA	25.33
	2/5/2007		2.25	NMT	NA	26.63
	8/8/2007		4.17	NMT	NA	24.71
	2/20/2008		4.78	NMT	NA	24.10
102	8/2/2006	29.88	4.39	NMT	NA	25.49
	2/5/2007		2.90	NMT	NA	26.98
	8/8/2007		5.06	NMT	NA	24.82
	2/20/2008		5.75	NMT	NA	24.13
104	NA	28.10	NM			
105	8/2/2006	29.51	7.12	NMT	NA	22.39
	2/5/2007		2.81	NMT	NA	26.70
	8/8/2007		4.84	NMT	NA	24.67
	2/20/2008		5.43	NMT	NA	24.08

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED**  
**MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

DATA POINT	DATE DATA COLLECTED	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE-PHASE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (in feet)
106	8/2/2006	26.51	1.35	NMT	NA	25.16
	2/5/2007		0.15	NMT	NA	26.36
	8/8/2007		2.02	NMT	NA	24.49
	2/20/2008		2.68	NMT	NA	23.83
107	8/2/2006	31.33	5.05	NMT	NA	26.28
	2/5/2007		3.78	NMT	NA	27.55
	8/8/2007		5.76	NMT	NA	25.57
	2/20/2008		6.31	NMT	NA	25.02
108	8/2/2006	31.50	6.85	NMT	NA	24.65
	2/5/2007		5.08	NMT	NA	26.42
	8/8/2007		7.31	NMT	NA	24.19
	2/20/2008		8.07	NMT	NA	23.43
113	8/2/2006	33.90	9.10	NMT	NA	24.80
	2/5/2007		7.51	NMT	NA	26.39
	8/8/2007		9.91	NMT	NA	23.99
	2/20/2008		10.40	NMT	NA	23.50
114	NA	34.74		NM		
116	NA	28.76		NM		
117	8/2/2006	31.33	9.10	NMT	NA	22.23
	2/5/2007		7.65	NMT	NA	23.68
	8/8/2007		9.90	NMT	NA	21.43
	2/20/2008		10.43	NMT	NA	20.90
119	8/2/2006	26.68	4.71	NMT	NA	21.97
	2/5/2007		3.10	NMT	NA	23.58
	8/8/2007		4.85	NMT	NA	21.83
	2/20/2008		4.97	NMT	NA	21.71
121	NA	29.20		NM		
PTW-1	NA	36.67		NM		
PTW-2	NA	36.68		NM		
PTW-3	NA	36.68		NM		
PTW-4	NA	36.41		NM		
PTW-5	NA	36.57		NM		
PTW-6	NA	36.42		NM		

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED**  
**MONITORING WELLS – AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

<b>DATA POINT</b>	<b>DATE DATA COLLECTED</b>	<b>TOP OF CASING ELEVATION (in feet)</b>	<b>DEPTH TO WATER (in feet)</b>	<b>FREE-PHASE PRODUCT THICKNESS (in feet)</b>	<b>SPECIFIC GRAVITY ADJUSTMENT</b>	<b>WATER TABLE ELEVATION (in feet)</b>
PTW-7	NA	36.73				NM
PTW-8	NA	36.72				NM
PTW-9	NA	36.90				NM
<b>TYPE III MONITORING WELLS</b>						
TMW-1	NA	30.43				NM
TMW-2	NA	35.40				NM
<b>FORMER RECOVERY WELLS CONVERTED TO MONITORING WELLS</b>						
RW-2	NA	36.18				ABANDONED
KRW-3	NA	29.07				NM
KRW-4	NA	27.82				NM
KRW-5	NA	32.58				NM
KRW-6	NA	30.90				NM
KRW-7	NA	29.47				NM
KRW-8	NA	38.01				NM

## Notes:

Specific gravity adjustment for paraxylene is 0.86

NMT = No Measurable Thickness

NM = Not Measured

NA = Not Applicable

**TABLE 2**  
**SUMMARY OF DISSOLVED OXYGEN MEASUREMENTS FROM**  
**SELECTED MONITORING WELLS - AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

WELL I.D.	DATE	DISSOLVED OXYGEN (mg/L)
101	8/9/2007	2.09
	2/25/2008	0.49
102	8/9/2007	1.10
	2/25/2008	0.41
105	8/8/2006	0.85
	2/8/2007	0.80
	8/9/2007	1.49
	2/25/2008	0.19
106	8/8/2007	1.62
	2/27/2008	0.66
107	8/8/2007	0.86
	2/27/2008	0.43
108	8/8/2006	3.90
	2/8/2007	0.37
	8/8/2007	1.29
	2/27/2008	0.61
113	8/8/2006	1.01
	2/8/2007	0.15
	8/8/2007	5.02
	2/26/2008	0.42
117	8/8/2006	1.22
	2/8/2007	0.32
	8/8/2007	0.57
	2/27/2008	0.26
119	8/8/2007	1.52
MW-2	8/8/2007	5.61
	2/27/2008	1.43
MW-3	8/9/2007	1.56
	2/26/2008	0.81

**TABLE 2**  
**SUMMARY OF DISSOLVED OXYGEN MEASUREMENTS FROM**  
**SELECTED MONITORING WELLS - AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

WELL I.D.	DATE	DISSOLVED OXYGEN (mg/L)
MW-12	8/8/2006	0.53
	2/8/2007	0.40
	8/9/2007	1.76
	2/25/2008	0.72
MW-14	8/8/2006	0.49
	2/8/2007	0.30
	8/8/2007	2.27
	2/27/2008	0.30
MW-15	8/8/2007	0.69
	2/27/2008	0.38
MW-16	8/8/2006	1.04
	2/8/2007	0.35
	8/8/2007	0.63
	2/27/2008	0.37
MW-17	8/8/2006	8.80
	2/8/2007	8.58
	8/8/2007	11.06
	2/27/2008	9.73
MW-18	8/8/2006	1.00
	2/8/2007	7.44
	8/8/2007	5.80
	2/27/2008	6.82
MW-19	8/8/2006	1.91
	2/8/2007	3.65
	8/8/2007	6.36
	2/27/2008	8.05
MW-20	8/8/2006	0.85
	2/8/2007	4.70
	8/8/2007	3.76
	2/27/2008	4.71

TABLE 2

**SUMMARY OF DISSOLVED OXYGEN MEASUREMENTS FROM  
SELECTED MONITORING WELLS - AUGUST 2006 THROUGH FEBRUARY 2008**

**PARAXYLENE FACILITY  
INVISTA, NORTH TERMINAL  
WILMINGTON, NORTH CAROLINA**

<b>WELL I.D.</b>	<b>DATE</b>	<b>DISSOLVED OXYGEN (mg/L)</b>
MW-32	8/8/2006	2.50
	2/8/2007	4.07
	8/8/2007	0.96
	2/27/2008	5.88
MW-33	8/8/2006	8.80
	2/8/2007	8.17
	8/8/2007	9.32
	2/25/2008	8.42
MW-35	8/8/2007	1.27
	2/27/2008	0.42
MW-36	8/9/2007	1.29
	2/25/2008	0.40

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
<b>TYPE II MONITORING WELLS</b>		
MW-1	12/8/1995	29,000
	2/13/1996	11,000
	6/24/1996	9,400
	1/28/1997	340
	12/4/1997	4,000
	6/13/1998	360
	1/19/1999	250
	7/14/1999	26
	2/29/2000	<1.0
	6/13/2000	470
	2/21/2001	<1.0
	7/31/2001	2.3
	4/1/2002	260
	7/31/2002	4,200
	2/24/2003	<1.0
	8/20/2003	<1.0
	2/20/2004	<1.0
	8/4/2004	<1.0
	2/22/2005	950
	8/25/2005	<0.31
2/9/2006	<1.3	
8/9/2006	<1.3	
2/9/2007	1.9 J	
8/9/2007	<0.53	
2/22/2008	<0.53	
MW-2	2/20/2004	140,000
	8/4/2004	360,000
	2/21/2005	130,000
	8/25/2005	69,000
	2/9/2006	150,000
	8/9/2006	140,000
	2/8/2007	100,000
	8/8/2007	120,000
2/21/2008	42,000	
MW-3	12/8/1995	180,000
	6/24/1996	28,000
	1/28/1997	53,000
	12/4/1997	100,000
	6/13/1998	35,000
	1/19/1999	49,000
	7/14/1999	20,000
	2/29/2000	37,000
	6/13/2000	63,000
	2/21/2001	120,000
	7/31/2001	110,000
	4/1/2002	81,000
	7/31/2002	96,000
	2/24/2003	120,000
8/19/2003	96,000	
2/20/2004	110,000	
8/4/2004	89,000	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
WELL I.D.	DATE	M/P XYLENE (ug/L)
MW-3	2/22/2005	130,000
	8/25/2005	27,000
	2/9/2006	16,000
	8/8/2006	110,000
	2/8/2007	10,000
	8/9/2007	110,000
	2/21/2008	100,000
MW-4	12/8/1995	1,600,000
	2/13/1996	140,000
	6/24/1996	140,000
	1/28/1997	190,000
	12/4/1997	220,000
	6/13/1998	180,000
	1/19/1999	190,000
	7/14/1999	300,000
	2/29/2000	100,000
	6/13/2000	45,000
	2/20/2004	66,000
	8/4/2004	80,000
	2/21/2005	36,000
	8/25/2005	25,000
	2/9/2006	24,000
8/9/2006	75,000	
2/8/2007	52,000	
MW-5	2/13/1996	9,800
	6/24/1996	2,500
	1/28/1997	1,400
	12/4/1997	790
	6/13/1998	7,800
	1/19/1999	2,400
	7/14/1999	4,900
	2/29/2000	2,100
	6/13/2000	2,800
	7/31/2001	12,000
	4/1/2002	2,000
	7/31/2002	<5.0
	2/24/2003	1,200
	8/20/2003	630
	2/20/2004	1,400
	8/4/2004	390
	2/22/2005	34
	8/25/2005	<0.31
	2/9/2006	1,400
	8/9/2006	1,900
2/8/2007	390	
8/9/2007	79	
2/21/2008	5,200	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
<b>WELL I.D.</b>	<b>DATE</b>	<b>M/P XYLENE (ug/L)</b>
MW-7	10/15/1999	150,000
	2/29/2000	130,000
	2/21/2001	150,000
	7/31/2001	120,000
	4/2/2002	140,000
	2/24/2003	400,000
	8/20/2003	2,200,000
	2/20/2004	570,000 D
	8/4/2004	3,100,000
	8/6/2004	110,000
	2/22/2005	120,000
WELL HAS BEEN PERMANENTLY ABANDONED		
MW-8	10/5/1999	4,400
	2/29/2000	12,000
	2/21/2001	5,500
	7/31/2001	8,500
	4/2/2002	17,000
	2/24/2003	15,000
	8/20/2003	16,000
	2/20/2004	6,800
	8/4/2004	5,800
	2/22/2005	20,000
	8/25/2005	38,000
	2/9/2006	21,000
	8/9/2006	95
	2/8/2007	6,400
8/9/2007	3,400	
2/21/2008	12,000	
MW-9	2/29/2000	<1
	2/24/2003	<1.0
	8/20/2003	<1.0
	2/20/2004	<1.0
MW-10	2/29/2000	96,000
	2/21/2001	89,000
	7/31/2001	110,000
	8/25/2005	150,000
	2/9/2006	150,000
	8/9/2006	150,000
	2/9/2007	75,000
	8/9/2007	180,000
2/25/2008	130,000	
MW-11	2/29/2000	110,000
	7/31/2001	100,000
	4/1/2002	63,000
	2/24/2003	130,000
	8/20/2003	110,000
	2/20/2004	53,000
	8/4/2004	53,000
	2/22/2005	79,000
8/25/2005	56,000	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
<b>WELL I.D.</b>	<b>DATE</b>	<b>M/P XYLENE (ug/L)</b>
MW-11	2/9/2006	3,300
	8/9/2006	57,000
	2/8/2007	30,000
MW-12	2/29/2000	56,000
	2/21/2001	170,000
	7/31/2001	140,000
	7/31/2002	140,000
	2/24/2003	86,000
	8/20/2003	17,000
	2/20/2004	92,000
	8/4/2004	35,000
	2/22/2005	100,000
	8/24/2005	22,000
	2/9/2006	59,000
	8/8/2006	110,000
	2/8/2007	37,000
8/9/2007	33,000	
2/21/2008	99,000	
MW-13	2/29/2000	85,000
	2/21/2001	43,000
	7/31/2001	41,000
	4/1/2002	76,000
	7/31/2002	30,000
	2/24/2003	99
	8/19/2003	7,900
	2/20/2004	6,000
	8/4/2004	13,000
	2/22/2005	54,000
	8/25/2005	110,000
	2/9/2006	51,000
	8/9/2006	80,000
	2/8/2007	98,000
	8/9/2007	18,000
2/21/2008	78,000	
MW-14	2/29/2000	270,000
	7/31/2001	110,000
	4/1/2002	160,000
	7/31/2002	180,000
	2/24/2003	240,000
	8/19/2003	140,000
	2/20/2004	180000 D
	8/4/2004	190,000
	8/24/2005	29,000
	2/10/2006	170,000
	8/9/2006	130,000
	2/8/2007	140,000
	8/8/2007	110,000
2/21/2008	150,000	

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
MW-15	2/29/2000	49,000
	6/13/2000	57,000
	2/21/2001	80,000
	7/31/2001	23,000
	7/30/2002	97,000
	2/24/2003	130,000
	8/19/2003	76,000
	2/20/2004	75,000 D
	8/4/2004	110,000
	2/23/2005	86,000
	8/25/2005	98,000
	2/9/2006	71,000
	8/9/2006	84,000
	2/8/2007	48,000
8/8/2007	86,000	
2/21/2008	66,000	
MW-16	2/29/2000	79,000
	6/13/2000	62,000
	2/21/2001	47,000
	7/31/2001	21,000
	4/1/2002	8,700
	7/30/2002	4,300
	2/25/2003	17,000
	8/19/2003	30,000
	2/20/2004	27,000
	8/9/2006	29,000
	2/8/2007	42,000
	8/8/2007	66,000
	2/21/2008	47,000
MW-17	2/29/2000	24,000
	6/13/2000	2,400
	2/21/2001	3,100
	8/1/2001	290
	4/1/2002	170
	7/30/2002	2,600
	2/24/2003	<1.0
	8/19/2003	3.7
	2/20/2004	4,600
	8/4/2004	2,100
	2/21/2005	160
	8/24/2005	92
	2/9/2006	7,800
	3/2/2006	2,800 D
	8/9/2006	4.9
	2/8/2007	<1.3
8/8/2007	<0.53	
2/21/2008	<0.53	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
<b>WELL I.D.</b>	<b>DATE</b>	<b>M/P XYLENE (ug/L)</b>
MW-18	2/29/2000	13,000
	6/13/2000	21
	2/21/2001	29,000
	7/31/2001	6,400
	4/1/2002	510
	7/30/2002	<10
	2/25/2003	670
	8/19/2003	110
	2/20/2004	<1.0
	2/23/2005	1,300
	8/24/2005	160
	2/9/2006	11,000
	3/2/2006	170
	8/9/2006	5,300
2/8/2007	200	
8/8/2007	<0.53	
2/21/2008	4.6	
MW-19	2/29/2000	1,400
	6/13/2000	430
	2/21/2001	1,000
	7/31/2001	260
	4/1/2002	11,000
	7/30/2002	5,700
	2/25/2003	27,000
	8/19/2003	9,700
	2/20/2004	5,800
	2/23/2005	1,600
	8/24/2005	42,000
	2/9/2006	120,000
	3/24/2006	162,000
	4/27/2006	26,000
	5/30/2006	16,000
	8/8/2006	54,000
	10/5/2006	83,000
	10/31/2006	36,000
	11/28/2006	15,000
	12/29/2006	6,700
	1/26/2007	12,000
	2/8/2007	720
	3/30/2007	48
	4/26/2007	5.5
5/25/2007	<1.3	
7/2/2007	0.70 J	
8/8/2007	0.89 J	
10/26/2007	<0.53	
12/5/2007	<0.53	
2/21/2008	<0.53	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
<b>WELL I.D.</b>	<b>DATE</b>	<b>M/P XYLENE (ug/L)</b>
MW-20	2/29/2000	7,900
	6/13/2000	110,000
	2/21/2001	47,000
	7/31/2001	70,000
	4/2/2002	7,900
	7/31/2002	15,000
	2/25/2003	5,000
	8/19/2003	2,600
	2/20/2004	14,000
	8/3/2004	3,200
	2/18/2005	50,000
	8/24/2005	870
	2/10/2006	15,000
	3/2/2006	26
	8/8/2006	150
2/8/2007	<1.3	
8/8/2007	320	
2/21/2008	6,900	
MW-28	4/94	2,240
	2/13/1996	370
	6/24/1996	740
	1/28/1997	14
	12/4/1997	2,300
	6/13/1998	59
	7/14/1999	<1
	3/1/2000	<1
	6/13/2000	<1
	2/21/2001	4
	7/31/2001	<1.0
	2/25/2003	22
	8/20/2003	<1.0
	2/20/2004	530
	8/3/2004	30
	2/18/2005	<0.31
	8/24/2005	12,000
	2/10/2006	<1.3
8/8/2006	<1.3	
2/8/2007	<1.3	
8/8/2007	0.66 J	
2/21/2008	640	
MW-30	1/19/1999	<1
	7/14/1999	<1
	3/1/2000	<1
	6/13/2000	<1
	2/21/2001	<1

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
MW-32	4/1/2002	110,000
	7/31/2002	89,000
	2/25/2003	110,000
	8/19/2003	1,700
	2/20/2004	5,700
	8/4/2004	14,000
	2/22/2005	570
	8/24/2005	430
	2/10/2006	84
	8/8/2006	2,400
	2/8/2007	3,300
	8/8/2007	1,000 D
2/21/2008	0.95 J	
MW-33	4/1/2002	15,000
	7/31/2002	21,000
	2/25/2003	22,000
	8/19/2003	22,000
	2/20/2004	3,600
	8/4/2004	13,000
	2/22/2005	2,500
	8/24/2005	17,000
	2/9/2006	33,000
	8/8/2006	<1.3
	2/8/2007	<1.3
	8/8/2007	<0.53
2/21/2008	<0.53	
MW-34	2/22/2005	63,000
	8/25/2005	21,000
	2/9/2006	31,000
	8/8/2006	65,000
	2/8/2007	16,000
	8/9/2007	160,000
2/21/2008	120,000	
MW-35	2/21/2005	1,400
	8/25/2005	900
	2/9/2006	1,200
	8/9/2006	1,800
	2/8/2007	1,800
	8/8/2007	1,700
2/21/2008	780	
MW-36	2/22/2005	130,000
	8/25/2005	52,000
	2/9/2006	100,000
	8/9/2006	140,000
	2/8/2007	140,000
	8/9/2007	160,000
2/22/2008	120,000	

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
MW-37	2/22/2005	1,900
	8/25/2005	35,000
	2/9/2006	4,500
	8/9/2006	970
	2/9/2007	160
	8/9/2007	3,700
	2/22/2008	Bailed Dry - No Recharge
PTW-1	8/6/2004	2,800
PTW-2	8/6/2004	7,400
PTW-3	8/6/2004	660
PTW-4	8/6/2004	22,000
PTW-5	8/6/2004	46,000
PTW-6	8/6/2004	4,800
PTW-7	8/6/2004	1,200
PTW-8	8/6/2004	40,000
PTW-9	8/6/2004	45,000
101	2/24/2003	1,300
	8/19/2003	3,900
	2/20/2004	12,000
	8/4/2004	2,200
	2/21/2005	7,700
	8/25/2005	370
	2/10/2006	15
	8/9/2006	130
	2/8/2007	54
	8/9/2007	37
2/25/2008	2.3	
102	12/8/1995	800
	6/24/1996	200
	1/28/1997	1,100
	12/4/1997	26
	6/13/1998	270
	1/19/1999	49
	7/14/1999	760
	2/29/2000	1,300
	6/13/2000	230
	2/21/2001	100
	8/1/2001	9.1
	4/2/2002	<5.0
	7/30/2002	<10
	2/24/2003	21
	8/19/2003	5.3
	2/20/2004	150
	8/4/2004	35
	2/21/2005	34
	8/25/2005	99
	2/10/2006	600
8/9/2006	740	
2/8/2007	470	
8/9/2007	150	
2/25/2008	120	

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
104	7/30/2002	<50
	2/20/2004	860
105	7/30/2002	<50
	8/4/2004	26
	2/21/2005	5.1
	8/25/2005	1.9
	2/10/2006	67
	8/9/2006	6.8
	2/8/2007	7.8
	8/9/2007	3.2
	2/25/2008	0.75 J
2/25/2008 DUP	0.66 J	
106	12/8/1995	350,000
	6/24/1996	<10
	1/28/1997	120,000
	6/13/1998	No Data
	1/19/1999	140,000
	7/14/1999	29,000
	3/1/2000	130,000
	6/13/2000	87,000
	2/21/2001	97,000
	8/1/2001	35,000
	8/19/2003	180,000
	2/20/2004	87,000
	8/4/2004	46,000
	2/21/2005	120,000
	8/24/2005	100,000
	2/9/2006	120,000
8/8/2006	110,000	
2/8/2007	100,000	
8/8/2007	86,000	
2/21/2008	130,000	
107	6/13/2000	96,000
	7/31/2002	240,000
	8/19/2003	160,000
	2/20/2004	88,000
	8/4/2004	66,000
	2/21/2005	120,000
	8/25/2005	7,600
	2/9/2006	51,000
	8/9/2006	66,000
	2/8/2007	2,400
8/8/2007	68,000	
2/21/2008	86,000	

<b>TABLE 3</b> <b>SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS -</b> <b>GROUNDWATER</b>  <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
<b>WELL I.D.</b>	<b>DATE</b>	<b>M/P XYLENE (ug/L)</b>
108	4/1/2002	130,000
	2/24/2003	150,000
	8/19/2003	97,000
	2/20/2004	120,000
	8/4/2004	120,000
	2/21/2005	140,000
	8/24/2005	48,000
	2/9/2006	110,000
	8/8/2006	14,000
	2/8/2007	6,500
8/8/2007	84,000	
2/21/2008	130,000	
113	1/19/1999	11
	7/14/1999	BQL
	2/29/2000	370
	6/13/2000	460
	2/21/2001	<1
	7/31/2001	71
	4/1/2002	3.5
	7/31/2002	<1.0
	2/25/2003	2.2
	8/19/2003	1.6
	2/20/2004	<1.0
	8/4/2004	<1.0
	2/22/2005	0.85
	8/24/2005	<0.31
	2/9/2006	1.8 J
8/8/2006	<1.3	
2/8/2007	1.9 J	
8/8/2007	0.71 J	
2/21/2008	0.88 J	
114	6/13/1998	42
117	12/8/1995	86,000
	6/24/1996	59,000
	1/28/1997	80,000
	12/4/1997	46,000
	6/13/1998	130,000
	1/19/1999	120,000
	7/14/1999	140,000
	2/29/2000	78,000
	6/13/2000	100,000
	2/21/2001	81,000
	7/31/2001	45,000
	4/1/2002	39,000
	7/30/2002	16,000
	2/25/2003	55,000
	8/19/2003	7,100
	2/20/2004	110,000 D
	8/4/2004	57,000
	2/23/2005	34,000
	8/24/2005	480
	2/9/2006	<1.3
8/8/2006	80,000	
2/8/2007	79,000	
8/8/2007	64,000	
2/21/2008	44,000	

TABLE 3			
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER			
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA			
WELL I.D.	DATE	M/P XYLENE (ug/L)	
119	6/24/1996	<2	
	1/28/1997	1,500	
	12/4/1997	15	
	6/13/1998	3,000	
	1/19/1999	390	
	7/14/1999	420	
	2/29/2000	4,900	
	6/13/2000	1,300	
	2/21/2001	37	
	7/31/2001	1,800	
	4/1/2002	320	
	7/30/2002	<100	
	2/24/2003	9,000	
	8/19/2003	<100	
	2/20/2004	48	
	8/4/2004	590	
	2/23/2005	2,300	
	8/25/2005	<0.31	
	2/9/2006	3.7	
	8/9/2006	190	
2/8/2007	1.7 J		
8/8/2007	<0.53		
2/21/2008	<0.53		
2/21/2008 DUP	<0.53		
120	12/8/1995	1,600	
	6/24/1996	600	
	1/28/1997	4,300	
	12/4/1997	1,500	
	6/13/1998	1,500	
	1/19/1999	1,000	
	7/14/1999	400	
	WELL WAS DAMAGED		
	6/13/2000	800	
	2/21/2001	1,200	
	8/1/2001	2,300	
4/1/2002	33,000		
121	12/8/1995	300,000	
	6/24/1996	100,000	
	1/28/1997	100,000	
	12/4/1997	140,000	
	6/13/1998	160,000	
	1/19/1999	110,000	
	7/14/1999	140,000	
	3/1/2000	190,000	
2/24/2003	140,000		
D-O	12/8/1995	160,000	
	6/24/1996	62,000	
	1/28/1997	3,400	
	WELL HAS BEEN PERMANENTLY ABANDONED		
<b>TYPE III MONITORING WELLS</b>			
TMW-1	12/8/1995	220	
	2/29/2000	300	
TMW-2	2/29/2000	4.2	

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
<b>RECOVERY WELLS</b>		
RW-2	12/4/1997	8,100
	6/13/1998	14,000
	1/19/1999	8,200
	7/14/1999	9,200
	3/1/2000	26,000
	4/1/2002	17,000
	7/31/2002	13,000
	WELL HAS BEEN PERMANENTLY ABANDONED	
KRW-3	12/4/1997	87,000
	6/13/1998	120,000
	1/19/1999	67,000
	7/14/1999	86,000
	2/29/2000	17,000
	6/13/2000	85,000
	2/21/2001	100,000
	7/31/2001	140,000
	4/1/2002	47,000
	7/31/2002	57,000
	2/25/2003	45,000
	8/19/2003	93,000
	2/20/2004	53,000 D
8/4/2004	58,000	
8/24/2005	16,000	
KRW-4	12/4/1997	27,000
	6/13/1998	60,000
	1/19/1999	18,000
	7/14/1999	86,000
	2/29/2000	61,000
	6/13/2000	29,000
	2/21/2001	15,000
	8/1/2001	13,000
	4/1/2002	11,000
	7/31/2002	16,000
	2/24/2003	11,000
	8/19/2003	15,000
	2/20/2004	18,000
	8/4/2004	13,000
	2/23/2005	2,400
8/24/2005	73,000	
KRW-5	12/4/1997	180,000
	6/13/1998	130,000
	1/19/1999	84,000
	7/14/1999	390,000
	2/29/2000	150,000
	6/13/2000	100,000
	2/21/2001	FP
	7/31/2001	79,000
	4/1/2002	170,000
	7/31/2002	60,000
	2/24/2003	66,000
	8/19/2003	210,000
	2/20/2004	77,000
	8/4/2004	180,000
	2/22/2005	77,000
8/24/2005	58,000	

TABLE 3		
SUMMARY OF EPA METHOD 8260 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	M/P XYLENE (ug/L)
KRW-6	2/21/2001	64,000
	7/31/2001	95,000
	4/1/2002	93,000
	7/31/2002	53,000
	2/25/2003	60,000
	8/19/2003	72,000
	2/20/2004	120,000
	8/4/2004	92,000
	2/23/2005	69,000
	8/24/2005	54,000
KRW-7	8/21/2003	21,000
	8/4/2004	63,000
	2/23/2005	31,000
	8/24/2005	9,000
KRW-8	8/21/2003	100,000
	8/4/2004	14,000
	2/22/2005	72,000
	8/24/2005	55,000
TEMPORARY MONITORING WELLS *		
HP-1	4/94	11,900
HP-2	4/94	11,500
303TW-1	3/28/03	480
303TW-2	3/28/2003	1
303TW-3	3/28/2003	2,200
303TW-4	3/28/2003	31,000

All results in micrograms per liter (ug/L)

BQL = Below Quantitative Limit

ND = Not Determined

FP = Free-Product

< = Less than method detection limit

\* Temporary wells have been permanently abandoned

D - The reported result is from a secondary dilution.

J - The result is less than the reporting limit, but greater than or equal to the method detection limit and the concentration is an approximate value.

TABLE 4		
SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY		
INVISTA, NORTH TERMINAL		
WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	MTBE Concentration (ug/L)
<b>TYPE II MONITORING WELLS</b>		
MW-1	6/1/1998	<20
	2/4/2004	<10
	8/4/2004	<10
	2/5/2005	<21
	8/5/2005	3.2J
	2/6/2006	<0.45
	8/9/2006	<0.45
	2/9/2007	<0.45
	8/9/2007	<0.58
2/22/2008	<0.58	
MW-2	2/4/2004	<40,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2
	2/6/2006	<4.5
	8/9/2006	<230
	2/8/2007	<0.45
	8/8/2007	<290
2/21/2008	<290	
MW-3	6/1/1998	<2,000
	2/4/2004	<40,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<2.1
	2/6/2006	<4.5
	8/8/2006	<230
	2/8/2007	<0.45
	8/9/2007	<290
2/21/2008	<290	
MW-4	6/1/1998	<10,000
	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<2.1
	2/6/2006	<4.5
	8/9/2006	<90
	2/8/2007	<23
MW-5	6/1/1998	<1,000
	2/4/2004	<500
	8/4/2004	<200
	2/5/2005	<0.42
	8/5/2005	<0.42
	2/6/2006	<4.5
	8/9/2006	2.5 J
	2/8/2007	<0.45
	8/9/2007	<0.58
2/21/2008	<0.58	
MW-7	2/4/2004	<25,000
	8/4/2004	<200
	2/5/2005	<84

TABLE 4		
SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	MTBE Concentration (ug/L)
MW-8	2/4/2004	<1,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2
	2/6/2006	<4.5
	8/9/2006	<0.45
	2/8/2007	<9.0
	8/9/2007	<5.8
2/21/2008	<5.8	
MW-9	2/4/2004	<10
MW-10	8/5/2005	<8.4
	2/6/2006	<4.5
	8/9/2006	<230
	2/9/2007	<9.0
	8/9/2007	<290
	2/25/2008	<290
MW-11	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2
	2/6/2006	<2.3
	8/9/2006	<90
	2/8/2007	<45
MW-12	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<8.4
	2/6/2006	<11
	8/8/2006	<230
	2/8/2007	<45
	8/9/2007	<58
	2/21/2008	<58
MW-13	2/4/2004	<1,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	4.2J
	2/6/2006	<11
	8/9/2006	<90
	2/8/2007	<45
	8/9/2007	<58
	2/21/2008	<58

**TABLE 4**  
**SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER**  
**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

WELL I.D.	DATE	MTBE Concentration (ug/L)
MW-14	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<8.4
	2/6/2006	<45
	8/9/2006	<230
	2/8/2007	<45
	8/8/2007	<290
2/21/2008	<290	
MW-15	2/4/2004	<5,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<8.4
	2/6/2006	<11
	8/9/2006	<230
	2/8/2007	<90
	8/8/2007	<290
2/21/2008	<290	
MW-16	7/2/2003	1,100
	8/3/2003	<500
	2/4/2004	<5,000
	8/9/2006	<45
	2/8/2007	<110
	8/8/2007	<290
2/21/2008	<290	
MW-17	7/2/2003	2,100
	8/3/2003	5.9
	2/4/2004	<1,200
	8/4/2004	<200
	2/5/2005	<4.2
	8/5/2005	5.4J
	2/6/2006	8.8 J
	8/9/2006	<0.45
	2/8/2007	<0.45
	8/8/2007	<0.58
2/21/2008	<0.58	
MW-18	2/4/2004	<10
	2/5/2005	<21
	8/5/2005	0.73J
	2/6/2006	<4.5
	8/9/2006	<9.0
	2/8/2007	<0.45
	8/8/2007	<0.58
2/21/2008	1.2 J	
MW-19	2/4/2004	<1,000
	2/5/2005	<21
	8/5/2005	<4.2
	2/6/2006	<11
	8/8/2006	<230
	2/8/2007	<2.3
	8/8/2007	<0.58
2/21/2008	<0.58	

<b>TABLE 4</b> <b>SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER</b> <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
WELL I.D.	DATE	MTBE Concentration (ug/L)
MW-20	2/4/2004	<5,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<0.42
	2/6/2006	<4.5
	8/8/2006	<0.45
	2/8/2007	<0.45
	8/8/2007	<0.58
2/21/2008	<0.58	
MW-28	6/1/1998	<2
	2/4/2004	<100
	8/4/2004	<50
	2/5/2005	<0.42
	8/5/2005	<0.42
	2/6/2006	<0.45
	8/8/2006	<0.45
	2/8/2007	<0.45
8/8/2007	<0.58	
2/21/2008	<0.58	
MW-30	6/1/1998	<1
MW-32	2/4/2004	<1,000
	8/4/2004	<200
	2/5/2005	<10
	8/5/2005	<0.42
	2/6/2006	<0.45
	8/8/2006	<9.0
	2/8/2007	<9.0
	8/8/2007	<1.2
2/21/2008	<0.58	
MW-33	2/4/2004	<1,000
	8/4/2004	<200
	2/5/2005	<42
	8/5/2005	<4.2
	2/6/2006	<4.5
	8/8/2006	<0.45
	2/8/2007	<0.45
	8/8/2007	<0.58
2/21/2008	<0.58	
MW-34	2/5/2005	<84
	8/5/2005	<0.42
	2/6/2006	<4.5
	8/8/2006	<90
	2/8/2007	<23
	8/9/2007	<580
2/21/2008	<580	
MW-35	2/5/2005	250
	8/5/2005	310 J
	2/6/2006	57
	8/9/2006	42 J
	2/8/2007	22 J
	8/8/2007	46 J
2/21/2008	18 J	

TABLE 4		
SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER		
PARAXYLENE FACILITY INVISTA, NORTH TERMINAL WILMINGTON, NORTH CAROLINA		
WELL I.D.	DATE	MTBE Concentration (ug/L)
MW-36	2/5/2005	<84
	8/5/2005	<4.2
	2/6/2006	<2.3
	8/9/2006	<230
	2/8/2007	<90
	8/9/2007	<580
	2/22/2008	<580
MW-37	2/5/2005	<42
	8/5/2005	<0.42
	2/6/2006	<23
	8/9/2006	<0.45
	2/9/2007	<0.45
	8/9/2007	<12
101	7/2/2003	<100
	8/3/2003	<50
	2/4/2004	8,500
	8/4/2004	920
	2/5/2005	3,300
	8/5/2005	240
	2/6/2006	370
	8/9/2006	660
	2/8/2007	560
8/9/2007	310	
	2/25/2008	21
102	6/1/1996	1,100
	6/1/1998	420
	1/1/1999	150
	7/2/2003	310
	8/3/2003	200
	2/4/2004	290
	8/4/2004	<100
	2/5/2005	830
	8/5/2005	130
	2/6/2006	71
	8/9/2006	52
	2/8/2007	48
	8/9/2007	37
	2/25/2008	26
104	7/1/2002	5,100
	2/4/2004	<500
105	8/1/2002	390
	8/4/2004	20
	2/5/2005	19
	8/5/2005	<0.42
	2/6/2006	10
	8/9/2006	<0.45
	2/8/2007	<0.45
	8/9/2007	<0.58
	2/25/2008	<0.58
	2/25/2008 DUP	<0.58

<b>TABLE 4</b> <b>SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER</b> <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
WELL I.D.	DATE	MTBE Concentration (ug/L)
106	6/1/1996	420
	8/1/2002	1,000
	8/19/2003	<5,000
	2/4/2004	<25000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<8.4
	2/6/2006	<45
	8/8/2006	<230
	2/8/2007	<0.45
	8/8/2007	<150
2/21/2008	<150	
107	7/1/2002	<500
	8/1/2002	<500
	8/1/2003	<5,000
	2/4/2004	<10000
	8/4/2004	<200
	2/5/2005	<110
	8/5/2005	<0.42
	2/6/2006	<11
	8/9/2006	<90
	2/8/2007	<23
	8/8/2007	<150
2/21/2008	<150	
108	8/1/2003	<5,000
	2/4/2004	<40000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<8.4
	2/6/2006	<23
	8/8/2006	<23
	2/8/2007	<23
8/8/2007	<150	
2/21/2008	<580	
113	1/1/1999	<2
	2/4/2004	<10
	8/4/2004	<10
	2/5/2005	0.42
	8/5/2005	<0.42
	2/6/2006	<0.45
	8/8/2006	<0.45
	2/8/2007	<0.45
	8/8/2007	<0.58
2/21/2008	<0.58	
114	6/1/1998	18

<b>TABLE 4</b> <b>SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER</b> <b>PARAXYLENE FACILITY</b> <b>INVISTA, NORTH TERMINAL</b> <b>WILMINGTON, NORTH CAROLINA</b>		
WELL I.D.	DATE	MTBE Concentration (ug/L)
117	7/1/1996	<5,000
	6/1/1998	<20,000
	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<0.42
	2/6/2006	<0.45
	8/8/2006	<90
	2/8/2007	<0.45
	8/8/2007	<150
2/21/2008	<150	
119	6/1/1996	14
	6/1/1998	<100
	4/1/2002	2,900
	7/1/2002	6,400
	8/1/2003	2,200
	2/4/2004	990
	8/4/2004	280
	2/5/2005	<42
	8/5/2005	5.3J
	2/6/2006	99
	8/9/2006	30
	2/8/2007	6.4 J
	8/8/2007	7.1 J
2/21/2008	5.2 J	
2/21/2008 DUP	5.5 J	
120	6/1/1996	38
	6/1/1998	160
	1/1/1999	210
	4/1/2002	1,300
121	6/1/1996	<1,000
	6/1/1998	<10,000
TEMPORARY WELLS		
M-1	8/1/2002	1,500
M-2	8/1/2002	<50
RECOVERY WELLS		
RW-2	6/1/1998	<1,000
	4/1/2002	<500
	7/1/2002	<500
KRW-3	2/4/2004	<5,000
	8/4/2004	<200
	8/5/2005	<4.2
KRW-4	6/1/1998	<4,000
	4/1/2002	5,900
	7/1/2002	2,900
	8/1/2003	2,700
	2/4/2004	<5,000
	8/4/2004	670
	2/5/2005	<42
8/5/2005	55J	

**TABLE 4**  
**SUMMARY OF MTBE LABORATORY RESULTS - GROUNDWATER**  
**PARAXYLENE FACILITY**  
**INVISTA, NORTH TERMINAL**  
**WILMINGTON, NORTH CAROLINA**

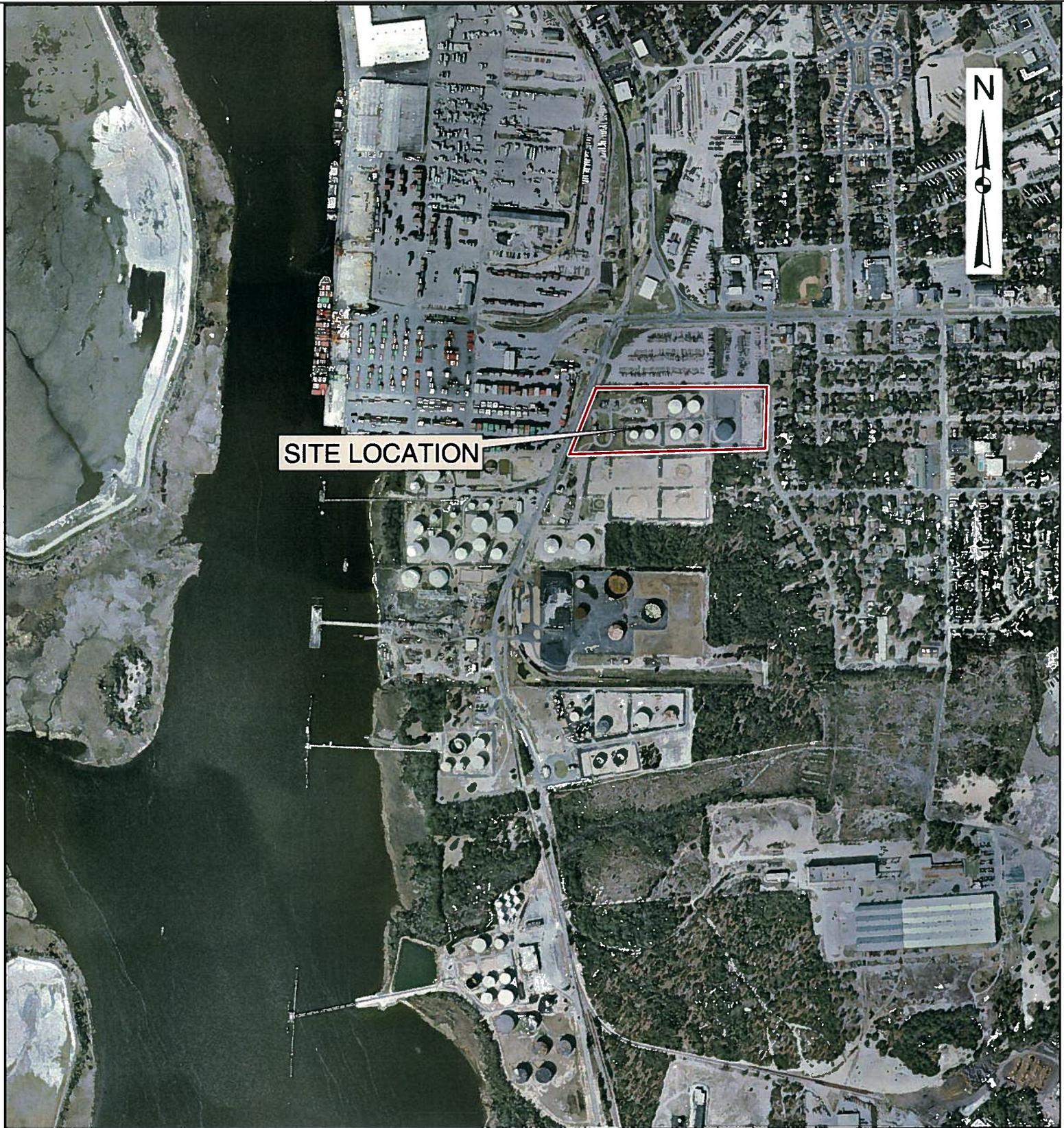
WELL I.D.	DATE	MTBE Concentration (ug/L)
KRW-5	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2
KRW-6	2/4/2004	<10,000
	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2
KRW-7	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	0.47 J
KRW-8	8/4/2004	<200
	2/5/2005	<84
	8/5/2005	<4.2

J = The result is less than the reporting limit but greater than the method detection limit and the concentration is an approximate value.

< = Below method detection limit

All results in micrograms per liter (ug/L)

## FIGURES



**SITE LOCATION**

1,000 500 0 1,000 Feet



**SCALE**

Data Source: New Hanover County Tax Department Orthophotography (2006).

PROJECT  
**INVISTA S.à.r.l.**  
**NORTH TERMINAL**  
**PARAXYLENE FACILITY**  
**RIVER ROAD**  
**WILMINGTON, N.C.**

TITLE  
**GENERAL LOCATION USGS**  
**TOPOGRAPHIC QUADRANGLE**

**FIGURE**

**1**

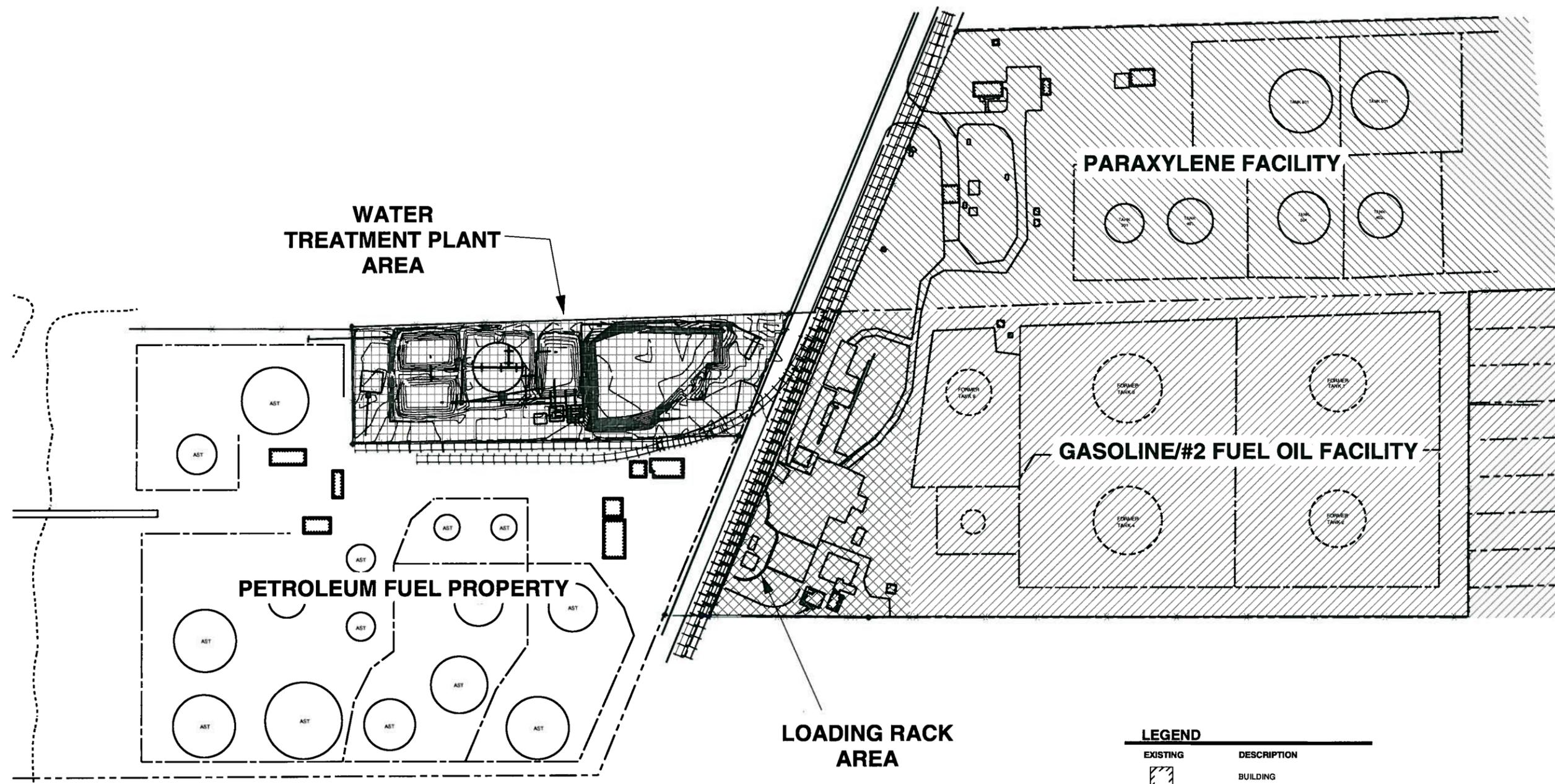
JOB NO. 201-125 DATE APRIL 2008

SCALE 1"=1000'

DRAWN BY KAWS

CHECKED BY JKB





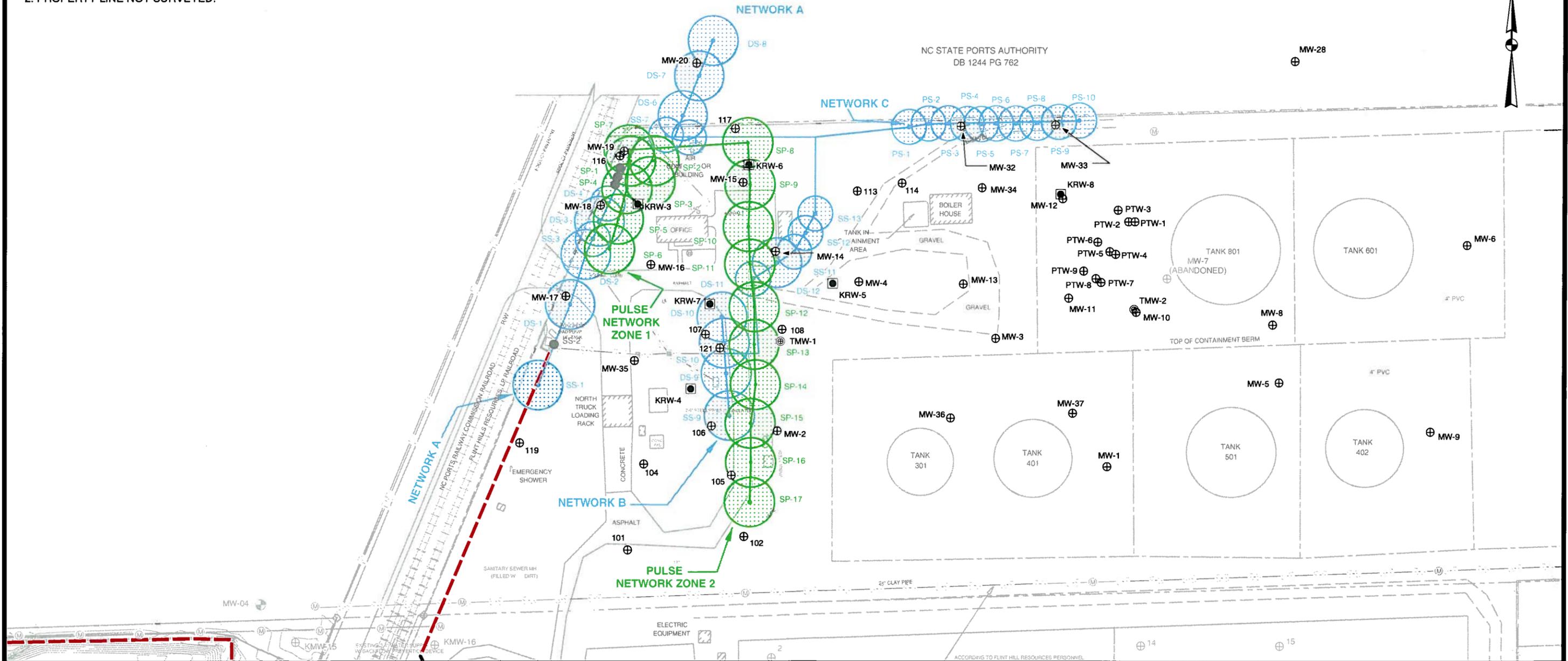
LEGEND	
EXISTING	DESCRIPTION
	BUILDING
	PROPERTY LINE
	RAILROAD TRACKS
	FENCE LINE
	TOP OF CONTAINMENT BERM



**NOTE:**  
 1. MAP PROVIDED BY ROBERT H. GOSLEE & ASSOCIATES, P.A. JULY 2004  
 2. PROPERTY LINES NOT SURVEYED.  
 3. PETROLUEM FUEL PROPERTY BASED ON AERIAL PHOTOGRAPHS.

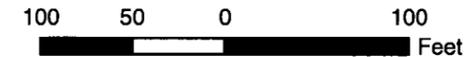
	<b>PROJECT</b> INVISTA S.à.r.l. NORTH TERMINAL PARAXYLENE FACILITY RIVER ROAD WILMINGTON, NC	<b>TITLE</b> <h2 style="text-align: center;">SITE MAP</h2>		<b>FIGURE</b> <h1 style="text-align: center;">2</h1>
	<b>JOB NO.</b> 201-125	<b>DATE</b> APRIL 2008	<b>SCALE:</b> AS SHOWN	<b>DRAWN BY:</b> KAWS

NOTE:  
 1. MAP PROVIDED BY ROBERT H. GOSLEE & ASSOCIATES, P.A. JULY 2004.  
 2. PROPERTY LINE NOT SURVEYED.



**LEGEND**

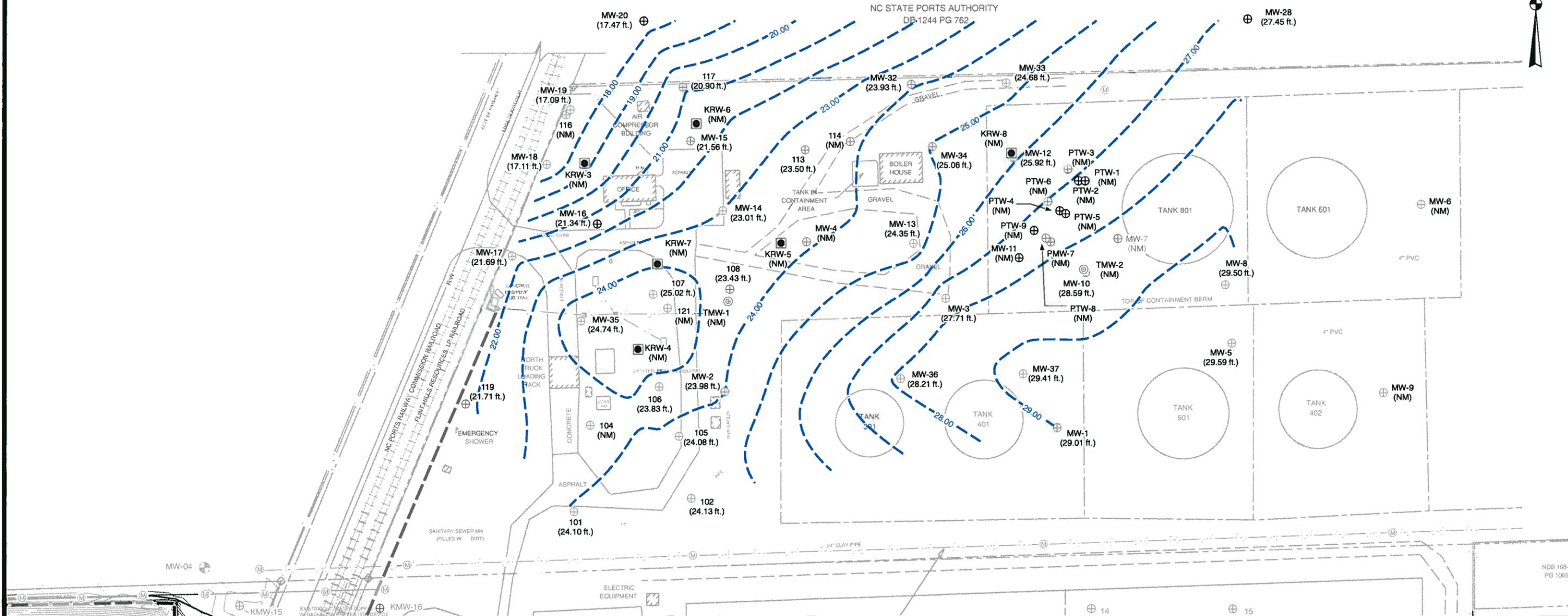
EXISTING	DESCRIPTION
	BUILDING
	TYPE II MONITORING WELL
	TYPE III MONITORING WELL
	FORMER RECOVERY WELL CONVERTED TO MONITORING WELL
	CATCH BASINS
	CLEAN OUT
	CONTINUOUS AIR SPARGE WELL WITH ESTIMATED INFLUENCE
	PULSE AIR SPARGE WELL WITH ESTIMATED INFLUENCE
	MANHOLE
	ABANDONED SPARGE WELL
	OVERHEAD LIGHT
	PROPERTY LINE
	SANITARY SEWER
	WATER SUPPLY
	POWER LINE
	TELEPHONE LINE
	FENCE LINE
	INVISTA STORMWATER LINE



SCALE

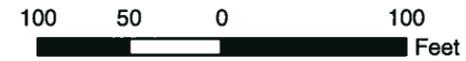
<p><b>CATLIN</b>          Engineers and Scientists          WILMINGTON, NC</p>	PROJECT INVISTA S.a.r.l. NORTH TERMINAL PARAXYLENE FACILITY RIVER ROAD WILMINGTON, NC	TITLE <b>CURRENT LAYOUT OF SITE AT PARAXYLENE FACILITY          AS OF FEBRUARY 2008</b>	FIGURE <b>3</b>
	JOB NO: 201-125	DATE: APRIL 2008	SCALE: AS SHOWN

NOTE:  
 1. MAP PROVIDED BY ROBERT H. GOSLEE & ASSOCIATES, P.A. JULY 2004.  
 2. PROPERTY LINE NOT SURVEYED.



**LEGEND**

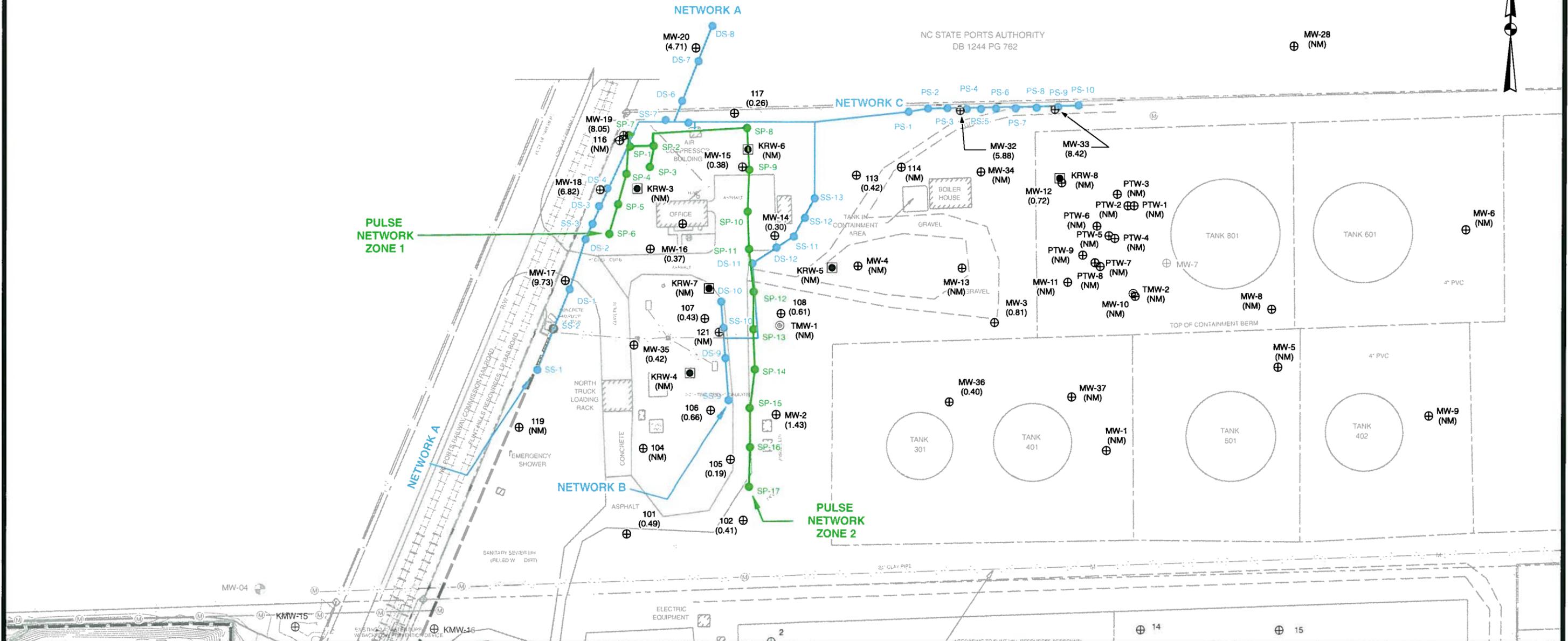
EXISTING	DESCRIPTION	Symbol	DESCRIPTION
	BUILDING		MANHOLE
	TYPE II MONITORING WELL		ABANDONED SPARGE WELL
	TYPE III MONITORING WELL		OVERHEAD LIGHT
	RECOVERY WELL		PROPERTY LINE
	CATCH BASINS		SANITARY SEWER
	CLEAN OUT		WATER SUPPLY
	GROUNDWATER CONTOUR		POWER LINE
			TELEPHONE LINE
			FENCE LINE
			INVISTA STORMWATER LINE
			GROUNDWATER ELEVATION IN FEET
			NOT MEASURED



SCALE

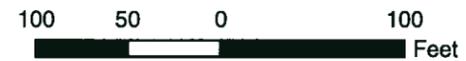
 WILMINGTON, NC	PROJECT INVISTA S.a.r.l. NORTH TERMINAL PARAXYLENE FACILITY RIVER ROAD WILMINGTON, NC	TITLE <b>GROUNDWATER CONTOURS          AT PARAXYLENE FACILITY          AS OF FEBRUARY 2008</b>		FIGURE <b>4</b>
	JOB NO: 201-125	DATE: APRIL 2008	SCALE: AS SHOWN	DRAWN BY: KAWS CHECKED BY: JKB

NOTE:  
 1. MAP PROVIDED BY ROBERT H. GOSLEE & ASSOCIATES, P.A. JULY 2004.  
 2. PROPERTY LINE NOT SURVEYED.



**LEGEND**

EXISTING	DESCRIPTION		DESCRIPTION
	BUILDING		MANHOLE
	TYPE II MONITORING WELL		ABANDONED SPARGE WELL
	TYPE III MONITORING WELL		OVERHEAD LIGHT
	FORMER RECOVERY WELL CONVERTED TO MONITORING WELL		PROPERTY LINE
	CATCH BASINS		SANITARY SEWER
	CLEAN OUT		WATER SUPPLY
	CONTINUOUS AIR SPARGE WELL		POWER LINE
	PULSE AIR SPARGE WELL		TELEPHONE LINE
(NM)	NOT MEASURED		FENCE LINE
( )	DISSOLVED OXYGEN CONCENTRATIONS IN mg/L		INVISTA STORMWATER LINE



SCALE

	PROJECT INVISTA S.à.r.l. NORTH TERMINAL PARAXYLENE FACILITY RIVER ROAD WILMINGTON, NC	TITLE <b>DISSOLVED OXYGEN LEVELS          AT PARAXYLENE FACILITY          FOR FEBRUARY 2008 SAMPLING EVENT</b>	FIGURE <b>5</b>
	JOB NO. 201-125	DATE: APRIL 2008	SCALE: AS SHOWN



## APPENDICES

**APPENDIX A**

**GROUNDWATER ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS**

## ANALYTICAL REPORT

Job Number: 680-31540-1

Job Description: Invista North Terminal (201-125)

For:

Catlin Engineers and Scientists

220 Old Dairy Road

Wilmington, NC 28405

Attention: Mr. Jeff Becken

*Kathryn Smith*

---

Kathryn Smith  
Project Manager I  
kathye.smith@testamericainc.com  
11/13/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

**TestAmerica Laboratories, Inc.**

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 [www.testamericainc.com](http://www.testamericainc.com)



## METHOD SUMMARY

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds by GC/MS		TAL SAV	SW846 8260B	
Purge-and-Trap		TAL SAV		SW846 5030B

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-31540-1	MW-19	Water	10/26/2007 0915	11/01/2007 1045

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

Client Sample ID: MW-19

Lab Sample ID: 680-31540-1

Client Matrix: Water

Date Sampled: 10/26/2007 0915

Date Received: 11/01/2007 1045

---

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-90348

Instrument ID: GC/MS Volatiles - P

Preparation: 5030B

Lab File ID: p3017.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/07/2007 2023

Final Weight/Volume: 5 mL

Date Prepared: 11/07/2007 2023

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	100	75 - 120

## DATA REPORTING QUALIFIERS

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

**Surrogate Recovery Report**

**8260B Volatile Organic Compounds by GC/MS**

Client Matrix: Water

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<b>BFB %Rec</b>	<b>DBFM %Rec</b>	<b>TOL %Rec</b>
LCS 680-90348/31		103	119	101
MB 680-90348/33		99	115	100
680-31540-1	MW-19	100	99	100

<u>Surrogate</u>		<u>Acceptance Limits</u>
BFB	4-Bromofluorobenzene	75 - 120
DBFM	Dibromofluoromethane	75 - 121
TOL	Toluene-d8 (Surr)	75 - 120

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-31540-1

**Method Blank - Batch: 680-90348**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-90348/33  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 11/07/2007 1334  
Date Prepared: 11/07/2007 1334

Analysis Batch: 680-90348  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - P  
Lab File ID: pq3050.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
m-Xylene & p-Xylene	0.53	U	0.53	2.0
<b>Surrogate</b>	<b>% Rec</b>		<b>Acceptance Limits</b>	
4-Bromofluorobenzene	99		75 - 120	
Dibromofluoromethane	115		75 - 121	
Toluene-d8 (Surr)	100		75 - 120	

**Lab Control Spike - Batch: 680-90348**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 680-90348/31  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 11/07/2007 1222  
Date Prepared: 11/07/2007 1222

Analysis Batch: 680-90348  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - P  
Lab File ID: pq3047.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
m-Xylene & p-Xylene	100	109	109	83 - 118	
<b>Surrogate</b>		<b>% Rec</b>		<b>Acceptance Limits</b>	
4-Bromofluorobenzene		103		75 - 120	
Dibromofluoromethane		119		75 - 121	
Toluene-d8 (Surr)		101		75 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.



*Handwritten initials/signature*

## ANALYTICAL REPORT

Job Number: 680-32623-1

Job Description: Invista North PX Terminal (201-125)

For:

Catlin Engineers and Scientists  
220 Old Dairy Road  
Wilmington, NC 28405

Attention: Mr. Jeff Becken

*Kathryn Smith*

---

Kathryn Smith  
Project Manager I  
kathye.smith@testamericainc.com  
12/19/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

## METHOD SUMMARY

Client: Catlin Engineers and Scientists

Job Number: 680-32623-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds by GC/MS		TAL SAV	SW846 8260B	
Purge-and-Trap		TAL SAV		SW846 5030B

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**SAMPLE SUMMARY**

Client: Catlin Engineers and Scientists

Job Number: 680-32623-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-32623-1	MW-19	Water	12/05/2007 1315	12/11/2007 1600

### Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-32623-1

Client Sample ID: MW-19

Lab Sample ID: 680-32623-1

Client Matrix: Water

Date Sampled: 12/05/2007 1315

Date Received: 12/11/2007 1600

---

#### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-93521

Instrument ID: GC/MS Volatiles - P

Preparation: 5030B

Lab File ID: p0026.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 12/13/2007 1854

Final Weight/Volume: 5 mL

Date Prepared: 12/13/2007 1854

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	91		75 - 120	
Dibromofluoromethane	100		75 - 121	
Toluene-d8 (Surr)	94		75 - 120	

## DATA REPORTING QUALIFIERS

Client: Catlin Engineers and Scientists

Job Number: 680-32623-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-32623-1

**Method Blank - Batch: 680-93521**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-93521/17  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/13/2007 1225  
Date Prepared: 12/13/2007 1225

Analysis Batch: 680-93521  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - P  
Lab File ID: pq086.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	91	75 - 120
Dibromofluoromethane	105	75 - 121
Toluene-d8 (Surr)	96	75 - 120

**Lab Control Spike - Batch: 680-93521**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 680-93521/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/13/2007 1127  
Date Prepared: 12/13/2007 1127

Analysis Batch: 680-93521  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - P  
Lab File ID: pq082.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
m-Xylene & p-Xylene	100	103	103	83 - 118	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	105	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.



## ANALYTICAL REPORT

Job Number: 680-34516-1

Job Description: Invista North PX Terminal (201-125)

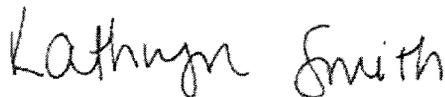
For:

Catlin Engineers and Scientists

220 Old Dairy Road

Wilmington, NC 28405

Attention: Mr. Jeff Becken



---

Kathryn Smith

Project Manager I

kathye.smith@testamericainc.com

03/04/2008

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## METHOD SUMMARY

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Description	Lab Location	Method	Preparation Method
Matrix    Water			
Volatile Organic Compounds by GC/MS	TAL SAV	SW846 8260B	
Purge-and-Trap	TAL SAV		SW846 5030B

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**METHOD / ANALYST SUMMARY**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Smith, Carion	CS

## SAMPLE SUMMARY

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-34516-1	MW-3	Water	02/21/2008 1015	02/27/2008 1030
680-34516-2	MW-13	Water	02/21/2008 1030	02/27/2008 1030
680-34516-3	MW-34	Water	02/21/2008 1040	02/27/2008 1030
680-34516-4	113	Water	02/21/2008 1050	02/27/2008 1030
680-34516-5	MW-32	Water	02/21/2008 1100	02/27/2008 1030
680-34516-6	MW-14	Water	02/21/2008 1115	02/27/2008 1030
680-34516-7	MW-15	Water	02/21/2008 1120	02/27/2008 1030
680-34516-8	117	Water	02/21/2008 1125	02/27/2008 1030
680-34516-9	MW-19	Water	02/21/2008 1135	02/27/2008 1030
680-34516-10	MW-18	Water	02/21/2008 1140	02/27/2008 1030
680-34516-11	MW-16	Water	02/21/2008 1150	02/27/2008 1030
680-34516-12	MW-35	Water	02/21/2008 1155	02/27/2008 1030
680-34516-13	MW-17	Water	02/21/2008 1300	02/27/2008 1030
680-34516-14	MW-20	Water	02/21/2008 1305	02/27/2008 1030
680-34516-15	MW-28	Water	02/21/2008 1315	02/27/2008 1030
680-34516-16	119	Water	02/21/2008 1330	02/27/2008 1030
680-34516-17FD	119 DUP	Water	02/21/2008 1335	02/27/2008 1030
680-34516-18	106	Water	02/21/2008 1355	02/27/2008 1030
680-34516-19	MW-2	Water	02/21/2008 1400	02/27/2008 1030
680-34516-20	107	Water	02/21/2008 1415	02/27/2008 1030
680-34516-21	108	Water	02/21/2008 1420	02/27/2008 1030
680-34516-22	MW-33	Water	02/21/2008 1440	02/27/2008 1030
680-34516-23	MW-12	Water	02/21/2008 1445	02/27/2008 1030
680-34516-24	MW-8	Water	02/21/2008 1455	02/27/2008 1030
680-34516-25	MW-5	Water	02/21/2008 1505	02/27/2008 1030
680-34516-26RB	RINSATE	Water	02/21/2008 1525	02/27/2008 1030
680-34516-27	MW-01	Water	02/22/2008 1019	02/27/2008 1030
680-34516-28	MW-36	Water	02/22/2008 1024	02/27/2008 1030
680-34516-29	101	Water	02/25/2008 1250	02/27/2008 1030
680-34516-30	102	Water	02/25/2008 1320	02/27/2008 1030
680-34516-31	105	Water	02/25/2008 1350	02/27/2008 1030
680-34516-32FD	105 DUP	Water	02/25/2008 1352	02/27/2008 1030
680-34516-33	MW-10	Water	02/25/2008 1435	02/27/2008 1030
680-34516-34RB	RINSATE 25FEB08	Water	02/25/2008 1455	02/27/2008 1030

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-3

Lab Sample ID: 680-34516-1

Date Sampled: 02/21/2008 1015

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0179.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1325

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1325

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	100000		270	1000
Surrogate	%Rec			Acceptance Limits
4-Bromofluorobenzene	100			75 - 120
Dibromofluoromethane	100			75 - 121
Toluene-d8 (Surr)	103			75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-13

Lab Sample ID: 680-34516-2

Client Matrix: Water

Date Sampled: 02/21/2008 1030

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0181.d

Dilution: 100

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1353

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1353

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	58	U	58	1000

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	102	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-13

Lab Sample ID: 680-34516-2

Date Sampled: 02/21/2008 1030

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99316

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0220.d

Dilution: 1000

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1159

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1159

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	78000		530	2000

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-34

Lab Sample ID: 680-34516-3

Date Sampled: 02/21/2008 1040

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0183.d

Dilution: 1000

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1421

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1421

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	580	U	580	10000
m-Xylene & p-Xylene	120000		530	2000
Surrogate	%Rec			Acceptance Limits
4-Bromofluorobenzene	99			75 - 120
Dibromofluoromethane	99			75 - 121
Toluene-d8 (Surr)	103			75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 113

Lab Sample ID: 680-34516-4

Client Matrix: Water

Date Sampled: 02/21/2008 1050

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0185.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1449

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1449

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.88	J	0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	102	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-32

Lab Sample ID: 680-34516-5

Date Sampled: 02/21/2008 1100

Client Matrix: Water

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99316

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0222.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1227

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1227

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.95	J	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	97		75 - 120	
Dibromofluoromethane	105		75 - 121	
Toluene-d8 (Surr)	101		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-14

Lab Sample ID: 680-34516-6

Date Sampled: 02/21/2008 1115

Client Matrix: Water

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0187.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1517

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1517

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	150000		270	1000

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	103	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-15

Lab Sample ID: 680-34516-7

Date Sampled: 02/21/2008 1120

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-99234	Instrument ID:	GC/MS Volatiles - A
Preparation:	5030B		Lab File ID:	a0189.d
Dilution:	500		Initial Weight/Volume:	5 mL
Date Analyzed:	02/28/2008 1545		Final Weight/Volume:	5 mL
Date Prepared:	02/28/2008 1545			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	66000		270	1000

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	103	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 117

Lab Sample ID: 680-34516-8

Date Sampled: 02/21/2008 1125

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-99234	Instrument ID:	GC/MS Volatiles - A
Preparation:	5030B		Lab File ID:	a0191.d
Dilution:	250		Initial Weight/Volume:	5 mL
Date Analyzed:	02/28/2008 1613		Final Weight/Volume:	5 mL
Date Prepared:	02/28/2008 1613			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	150	U	150	2500
m-Xylene & p-Xylene	44000		130	500
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	99		75 - 121	
Toluene-d8 (Surr)	103		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-19

Lab Sample ID: 680-34516-9

Date Sampled: 02/21/2008 1135

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0193.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1641

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1641

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	96		75 - 120	
Dibromofluoromethane	103		75 - 121	
Toluene-d8 (Surr)	102		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-18

Lab Sample ID: 680-34516-10

Client Matrix: Water

Date Sampled: 02/21/2008 1140

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-99234	Instrument ID:	GC/MS Volatiles - A
Preparation:	5030B		Lab File ID:	a0195.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	02/28/2008 1709		Final Weight/Volume:	5 mL
Date Prepared:	02/28/2008 1709			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	1.2	J	0.58	10
m-Xylene & p-Xylene	4.6		0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	103	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-16

Lab Sample ID: 680-34516-11

Date Sampled: 02/21/2008 1150

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0197.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1737

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1737

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	47000		270	1000
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	102		75 - 120	
Dibromofluoromethane	95		75 - 121	
Toluene-d8 (Surr)	104		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-35

Lab Sample ID: 680-34516-12

Date Sampled: 02/21/2008 1155

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0211.d

Dilution: 5.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 2053

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 2053

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	18	J	2.9	50
m-Xylene & p-Xylene	780		2.7	10
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	98		75 - 121	
Toluene-d8 (Surr)	106		75 - 120	



## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-20

Lab Sample ID: 680-34516-14

Client Matrix: Water

Date Sampled: 02/21/2008 1305

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0201.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1833

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1833

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
Surrogate	%Rec			Acceptance Limits
4-Bromofluorobenzene	100			75 - 120
Dibromofluoromethane	103			75 - 121
Toluene-d8 (Surr)	104			75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-20

Lab Sample ID: 680-34516-14

Client Matrix: Water

Date Sampled: 02/21/2008 1305

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99316

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0224.d

Dilution: 50

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1254

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1254

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	6900		27	100

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-28

Lab Sample ID: 680-34516-15

Date Sampled: 02/21/2008 1315

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99234

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0203.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1901

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1901

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	102	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-28

Lab Sample ID: 680-34516-15

Client Matrix: Water

Date Sampled: 02/21/2008 1315

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99316

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0226.d

Dilution: 2.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1322

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1322

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	640		1.1	4.0

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 119

Lab Sample ID: 680-34516-16

Date Sampled: 02/21/2008 1330

Client Matrix: Water

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99316

Instrument ID: GC/MS Volatiles - A

Preparation: 5030B

Lab File ID: a0228.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1350

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1350

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	5.2	J	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	96		75 - 120	
Dibromofluoromethane	104		75 - 121	
Toluene-d8 (Surr)	101		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 119 DUP

Lab Sample ID: 680-34516-17FD

Date Sampled: 02/21/2008 1335

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-99316	Instrument ID:	GC/MS Volatiles - A
Preparation:	5030B		Lab File ID:	a0230.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	02/29/2008 1418		Final Weight/Volume:	5 mL
Date Prepared:	02/29/2008 1418			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	5.5	J	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	99		75 - 120	
Dibromofluoromethane	102		75 - 121	
Toluene-d8 (Surr)	103		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 106

Lab Sample ID: 680-34516-18

Client Matrix: Water

Date Sampled: 02/21/2008 1355

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0180.d

Dilution: 250

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1339

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1339

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	150	U	150	2500
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	95		75 - 121	
Toluene-d8 (Surr)	105		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 106

Lab Sample ID: 680-34516-18

Date Sampled: 02/21/2008 1355

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0223.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1240

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1240

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	130000		270	1000

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-2

Lab Sample ID: 680-34516-19

Date Sampled: 02/21/2008 1400

Client Matrix: Water

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0182.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1407

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1407

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	42000		270	1000
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	96		75 - 121	
Toluene-d8 (Surr)	102		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 107

Lab Sample ID: 680-34516-20

Date Sampled: 02/21/2008 1415

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0225.d

Dilution: 250

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1308

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1308

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	150	U	150	2500
m-Xylene & p-Xylene	86000		130	500
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	97		75 - 121	
Toluene-d8 (Surr)	107		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 108

Lab Sample ID: 680-34516-21

Date Sampled: 02/21/2008 1420

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0227.d

Dilution: 1000

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1336

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1336

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	580	U	580	10000
m-Xylene & p-Xylene	130000		530	2000

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	104	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-33

Lab Sample ID: 680-34516-22

Date Sampled: 02/21/2008 1440

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0188.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1531

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1531

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	98		75 - 120	
Dibromofluoromethane	97		75 - 121	
Toluene-d8 (Surr)	100		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-12

Lab Sample ID: 680-34516-23

Date Sampled: 02/21/2008 1445

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0190.d

Dilution: 100

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1559

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1559

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	58	U	58	1000
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	102		75 - 120	
Dibromofluoromethane	97		75 - 121	
Toluene-d8 (Surr)	109		75 - 120	

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-12

Lab Sample ID: 680-34516-23

Date Sampled: 02/21/2008 1445

Client Matrix: Water

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0229.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1404

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1404

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	99000		270	1000

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-8

Lab Sample ID: 680-34516-24

Client Matrix: Water

Date Sampled: 02/21/2008 1455

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0192.d

Dilution: 10

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1627

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1627

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	5.8	U	5.8	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	107	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-8

Lab Sample ID: 680-34516-24

Client Matrix: Water

Date Sampled: 02/21/2008 1455

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0231.d

Dilution: 50

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1432

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1432

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	12000		27	100

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-5

Lab Sample ID: 680-34516-25

Client Matrix: Water

Date Sampled: 02/21/2008 1505

Date Received: 02/27/2008 1030

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0194.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1655

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1655

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	97		75 - 120	
Dibromofluoromethane	103		75 - 121	
Toluene-d8 (Surr)	110		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-5

Lab Sample ID: 680-34516-25

Date Sampled: 02/21/2008 1505

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0233.d

Dilution: 20

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1500

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
m-Xylene & p-Xylene	5200		11	40

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: RINSATE

Lab Sample ID: 680-34516-26RB

Date Sampled: 02/21/2008 1525

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0235.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1528

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1528

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.60	J	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	97		75 - 120	
Dibromofluoromethane	101		75 - 121	
Toluene-d8 (Surr)	100		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-01

Lab Sample ID: 680-34516-27

Date Sampled: 02/22/2008 1019

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0237.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1556

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1556

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	102	75 - 121
Toluene-d8 (Surr)	102	75 - 120

## Analytical Data

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-36

Lab Sample ID: 680-34516-28

Date Sampled: 02/22/2008 1024

Client Matrix: Water

Date Received: 02/27/2008 1030

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0200.d

Dilution: 1000

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1819

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1819

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	580	U	580	10000
m-Xylene & p-Xylene	120000		530	2000

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	104	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 101

Lab Sample ID: 680-34516-29

Date Sampled: 02/25/2008 1250

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0202.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1847

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1847

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	21		0.58	10
m-Xylene & p-Xylene	2.3		0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	100	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 102

Lab Sample ID: 680-34516-30

Date Sampled: 02/25/2008 1320

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0204.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1915

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1915

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	26		0.58	10
m-Xylene & p-Xylene	120		0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	102		75 - 120	
Dibromofluoromethane	99		75 - 121	
Toluene-d8 (Surr)	104		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 105

Lab Sample ID: 680-34516-31

Date Sampled: 02/25/2008 1350

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0206.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 1943

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 1943

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.75	J	0.53	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	102	75 - 120

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: 105 DUP

Lab Sample ID: 680-34516-32FD

Date Sampled: 02/25/2008 1352

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0208.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 2011

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 2011

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.66	J	0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	100		75 - 120	
Dibromofluoromethane	99		75 - 121	
Toluene-d8 (Surr)	102		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: MW-10

Lab Sample ID: 680-34516-33

Date Sampled: 02/25/2008 1435

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99235

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0210.d

Dilution: 500

Initial Weight/Volume: 5 mL

Date Analyzed: 02/28/2008 2039

Final Weight/Volume: 5 mL

Date Prepared: 02/28/2008 2039

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	290	U	290	5000
m-Xylene & p-Xylene	130000		270	1000
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101		75 - 120	
Dibromofluoromethane	97		75 - 121	
Toluene-d8 (Surr)	105		75 - 120	

**Analytical Data**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

Client Sample ID: RINSATE 25FEB08

Lab Sample ID: 680-34516-34RB

Date Sampled: 02/25/2008 1455

Client Matrix: Water

Date Received: 02/27/2008 1030

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**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B

Analysis Batch: 680-99319

Instrument ID: GC/MS Volatiles - A C2

Preparation: 5030B

Lab File ID: a0221.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 02/29/2008 1213

Final Weight/Volume: 5 mL

Date Prepared: 02/29/2008 1213

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	110		0.53	2.0
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	98		75 - 120	
Dibromofluoromethane	99		75 - 121	
Toluene-d8 (Surr)	103		75 - 120	

## DATA REPORTING QUALIFIERS

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Catlin Engineers and Scientists

**Surrogate Recovery Report**

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-34516-1	MW-3	100	100	103
680-34516-2	MW-13	100	100	102
680-34516-3	MW-34	99	99	103
680-34516-4	113	97	103	102
680-34516-5	MW-32	97	105	101
680-34516-6	MW-14	101	98	103
680-34516-7	MW-15	99	98	103
680-34516-8	117	101	99	103
680-34516-9	MW-19	96	103	102
680-34516-10	MW-18	98	103	103
680-34516-11	MW-16	102	95	104
680-34516-12	MW-35	101	98	106
680-34516-13	MW-17	96	102	103
680-34516-14	MW-20	100	103	104
680-34516-15	MW-28	99	103	102
680-34516-16	119	96	104	101
680-34516-17	119 DUP	99	102	103
680-34516-18	106	101	95	105
680-34516-19	MW-2	101	96	102
680-34516-20	107	101	97	107
680-34516-21	108	101	98	104
680-34516-22	MW-33	98	97	100
680-34516-23	MW-12	102	97	109
680-34516-24	MW-8	102	96	107
680-34516-25	MW-5	97	103	110
680-34516-26	RINSATE	97	101	100
680-34516-27	MW-01	98	102	102
680-34516-28	MW-36	101	98	104
680-34516-29	101	99	97	100

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

## Quality Control Results

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds by GC/MS

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-34516-30	102	102	99	104
680-34516-31	105	100	99	102
680-34516-32	105 DUP	100	99	102
680-34516-33	MW-10	101	97	105
680-34516-34	RINSATE 25FEB08	98	99	103
MB 680-99234/5		99	103	100
MB 680-99235/5		100	96	99
MB 680-99316/5		98	104	102
MB 680-99319/5		100	100	99
LCS 680-99234/3		102	100	98
LCS 680-99235/3		107	97	97
LCS 680-99316/3		97	98	95
LCS 680-99319/3		99	96	93

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

**Method Blank - Batch: 680-99234**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: MB 680-99234/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/28/2008 1237  
Date Prepared: 02/28/2008 1237

Analysis Batch: 680-99234  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A  
Lab File ID: aq088.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	103	75 - 121
Toluene-d8 (Surr)	100	75 - 120

**Lab Control Spike - Batch: 680-99234**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: LCS 680-99234/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/28/2008 1028  
Date Prepared: 02/28/2008 1028

Analysis Batch: 680-99234  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A  
Lab File ID: aq084.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl tert-butyl ether	100	81.7	82	77 - 121	
m-Xylene & p-Xylene	100	105	105	83 - 118	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

### Method Blank - Batch: 680-99235

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-99235/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/28/2008 1251  
Date Prepared: 02/28/2008 1251

Analysis Batch: 680-99235  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2  
Lab File ID: aq089.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	99	75 - 120

### Lab Control Spike - Batch: 680-99235

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 680-99235/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/28/2008 1042  
Date Prepared: 02/28/2008 1042

Analysis Batch: 680-99235  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2  
Lab File ID: aq085.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl tert-butyl ether	100	97.4	97	77 - 121	
m-Xylene & p-Xylene	100	105	105	83 - 118	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	107	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	97	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

**Method Blank - Batch: 680-99316**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-99316/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/29/2008 1114  
Date Prepared: 02/29/2008 1114

Analysis Batch: 680-99316  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A  
Lab File ID: aq098.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	98	75 - 120		
Dibromofluoromethane	104	75 - 121		
Toluene-d8 (Surr)	102	75 - 120		

**Lab Control Spike - Batch: 680-99316**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 680-99316/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/29/2008 1004  
Date Prepared: 02/29/2008 1004

Analysis Batch: 680-99316  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A  
Lab File ID: aq094.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl tert-butyl ether	100	88.1	88	77 - 121	
m-Xylene & p-Xylene	100	98.8	99	83 - 118	
Surrogate			% Rec	Acceptance Limits	
4-Bromofluorobenzene			97	75 - 120	
Dibromofluoromethane			98	75 - 121	
Toluene-d8 (Surr)			95	75 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Catlin Engineers and Scientists

Job Number: 680-34516-1

**Method Blank - Batch: 680-99319**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-99319/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/29/2008 1128  
Date Prepared: 02/29/2008 1128

Analysis Batch: 680-99319  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2  
Lab File ID: aq099.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Methyl tert-butyl ether	0.58	U	0.58	10
m-Xylene & p-Xylene	0.53	U	0.53	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	99	75 - 120

**Lab Control Spike - Batch: 680-99319**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 680-99319/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/29/2008 1018  
Date Prepared: 02/29/2008 1018

Analysis Batch: 680-99319  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2  
Lab File ID: aq095.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl tert-butyl ether	100	98.9	99	77 - 121	
m-Xylene & p-Xylene	100	97.1	97	83 - 118	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	96	75 - 121
Toluene-d8 (Surr)	93	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>INVISTA PX FACILITY</b>		PROJECT NO. <b>201-125</b>	PROJECT LOCATION (STATE) <b>NC</b>	MATRIX TYPE	REQUIRED ANALYSIS						PAGE <b>1</b>	OF <b>3</b>	
TAL (LAB) PROJECT MANAGER <b>KATHY SMITH</b>		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) <b>MP XYLENES + MTBE PER 8240B</b>	<b>HCL</b>	<b>PRESERVATIVE</b>						STANDARD REPORT DELIVERY <input checked="" type="checkbox"/>	
CLIENT (SITE) PM <b>JEFF BECKEN</b>		CLIENT PHONE <b>910-452-5861</b>	CLIENT FAX <b>910-452-7563</b>									DATE DUE _____	
CLIENT NAME <b>CATLIN ENG. &amp; SCI.</b>		CLIENT E-MAIL										EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	
CLIENT ADDRESS <b>220 OLD DAIRY RD WILMINGTON, NC 28405</b>		COMPANY CONTRACTING THIS WORK (if applicable) <b>REISS REMEDIATION, LLC</b>										DATE DUE _____	
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED						NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	REMARKS	
DATE <b>21 FEB 08</b>	TIME												
<b>1015</b>	<b>MW-3</b>				<b>GX</b>	<b>3</b>							<b>SEE KATHY SMITH FOR COL'S &amp; EDD FORMAT</b>
<b>1030</b>	<b>MW-13</b>												
<b>1040</b>	<b>MW-34</b>												
<b>1050</b>	<b>113</b>												
<b>1100</b>	<b>MW-32</b>												
<b>1115</b>	<b>MW-14</b>												
<b>1120</b>	<b>MW-15</b>												
<b>1125</b>	<b>117</b>												
<b>1135</b>	<b>MW-19</b>												
<b>1140</b>	<b>MW-18</b>												
<b>1150</b>	<b>MW-16</b>												
<b>1155</b>	<b>MW-35</b>												
RELINQUISHED BY: (SIGNATURE) <b>[Signature]</b>		DATE <b>20 FEB 08</b>	TIME <b>1000</b>	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	

TEMP: **0.6/4.1**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <b>KL</b>	DATE <b>2/27/08</b>	TIME <b>1030</b>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-34516</b>	LABORATORY REMARKS
--	------------------------	---------------------	---	------------------	--------------------------------------	--------------------

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Phone:  
Fax:

PROJECT REFERENCE <b>INVISTA PX FACILITY</b>	PROJECT NO. <b>201-125</b>	PROJECT LOCATION (STATE) <b>NC</b>	MATRIX TYPE	REQUIRED ANALYSIS					PAGE <b>2</b> OF <b>3</b>
TAL (LAB) PROJECT MANAGER <b>KATHY SMITH</b>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) <b>MIP XYLENES + MTBG PER 82605</b>	<b>HCL</b>	<b>PRESERVATIVE</b>				STANDARD REPORT DELIVERY <input checked="" type="checkbox"/>
CLIENT (SITE) PM <b>JEFF BECKEN</b>	CLIENT PHONE <b>910-452-5861</b>	CLIENT FAX <b>910-452-7563</b>							DATE DUE _____
CLIENT NAME <b>CATLIN ENG. &amp; SCI.</b>	CLIENT E-MAIL <b>jeff.becken@catlinusa.com</b>								EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>
CLIENT ADDRESS <b>270 OLD DAIRY RD</b>	COMPANY CONTRACTING THIS WORK (if applicable) <b>REISS REMEDIATION, LLC</b>								DATE DUE _____
									NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED					REMARKS
DATE	TIME												
2/28/08	1300	MW-17	G					3					SEE KATHY SMITH FOR COC'S & EDO FORMAT
	1305	MW-20											
	1315	MW-28											
	1330	119											
	1335	<del>MW-119</del> <sup>DT</sup> 119 DUP											
	1355	106											
	1400	MW-2											
	1415	107											
	1420	108											
	1440	MW-33											
	1445	MW-12											
	1455	<del>MW-119</del> <sup>DT</sup> MW-8											TEMP.: 0.6/4.1

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>2/28/08</b>	TIME <b>1000</b>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <b>Kh</b>	DATE <b>2/27/08</b>	TIME <b>1030</b>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-34516</b>	LABORATORY REMARKS

Serial Number 000835

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>INVISTA PX FACILITY</b>	PROJECT NO. <b>201-125</b>	PROJECT LOCATION (STATE) <b>NC</b>	MATRIX TYPE	REQUIRED ANALYSIS						PAGE <b>3</b>	OF <b>3</b>
TAL (LAB) PROJECT MANAGER <b>KATHY SMITH</b>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) <b>M/P XYLENES+MTBE PER 824 B</b>	<b>HCL</b>	<b>PRESERVATIVE</b>						STANDARD REPORT DELIVERY <input checked="" type="checkbox"/>
CLIENT (SITE) PM <b>JEFF BECKEN</b>	CLIENT PHONE <b>910-452-5861</b>	CLIENT FAX <b>910-452-7563</b>									DATE DUE _____
CLIENT NAME <b>CATTIN ENG. &amp; SCI.</b>	CLIENT E-MAIL <b>jeff.becken@cattinusa.com</b>										EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>
CLIENT ADDRESS <b>220 OLD DAIRY RD, WILMINGTON, NC 28405</b>	COMPANY CONTRACTING THIS WORK (if applicable) <b>REISS REMEDIATION, LLC</b>										DATE DUE _____
			NUMBER OF CONTAINERS SUBMITTED						NUMBER OF COOLERS SUBMITTED PER SHIPMENT:		

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED						REMARKS
DATE	TIME							1	2	3	4	5	6	
21FEB08	1505	MW-5	GX				3							*RINSATE COLLECTED
21FEB08	1525	RINSATE *	GX				3							USING DISTILLED H2O
22Feb08	1019	MW-01	GX				3							SEE KATHY SMITH
02Feb08	1024	MW-36	GX				3							FOR COC'S &
25FEB08	1250	101	GX				3							EDD FORMAT
25FEB08	1320	102	GX				3							
25FEB08	1350	105	GX				3							
25FEB08	1352	105 DUP	GX				3							
25FEB08	1435	MW-10	GX				3							
25FEB08	1455	RINSATE 25FEB08 *	GX				3							
													TEMP.: 0.6/4.4	

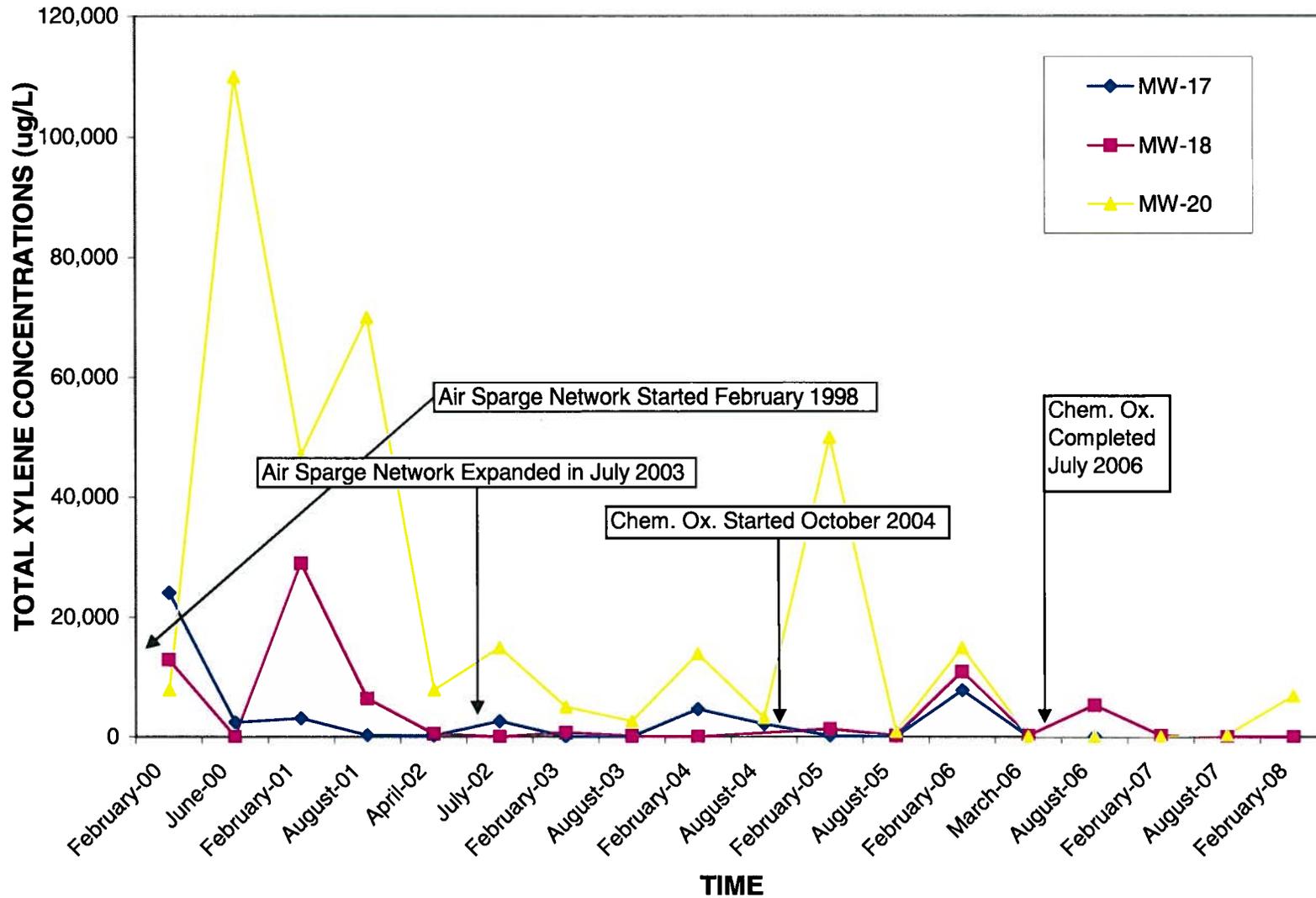
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RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <b>KL</b>	DATE <b>2/27/08</b>	TIME <b>1020</b>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>640-34516</b>	LABORATORY REMARKS

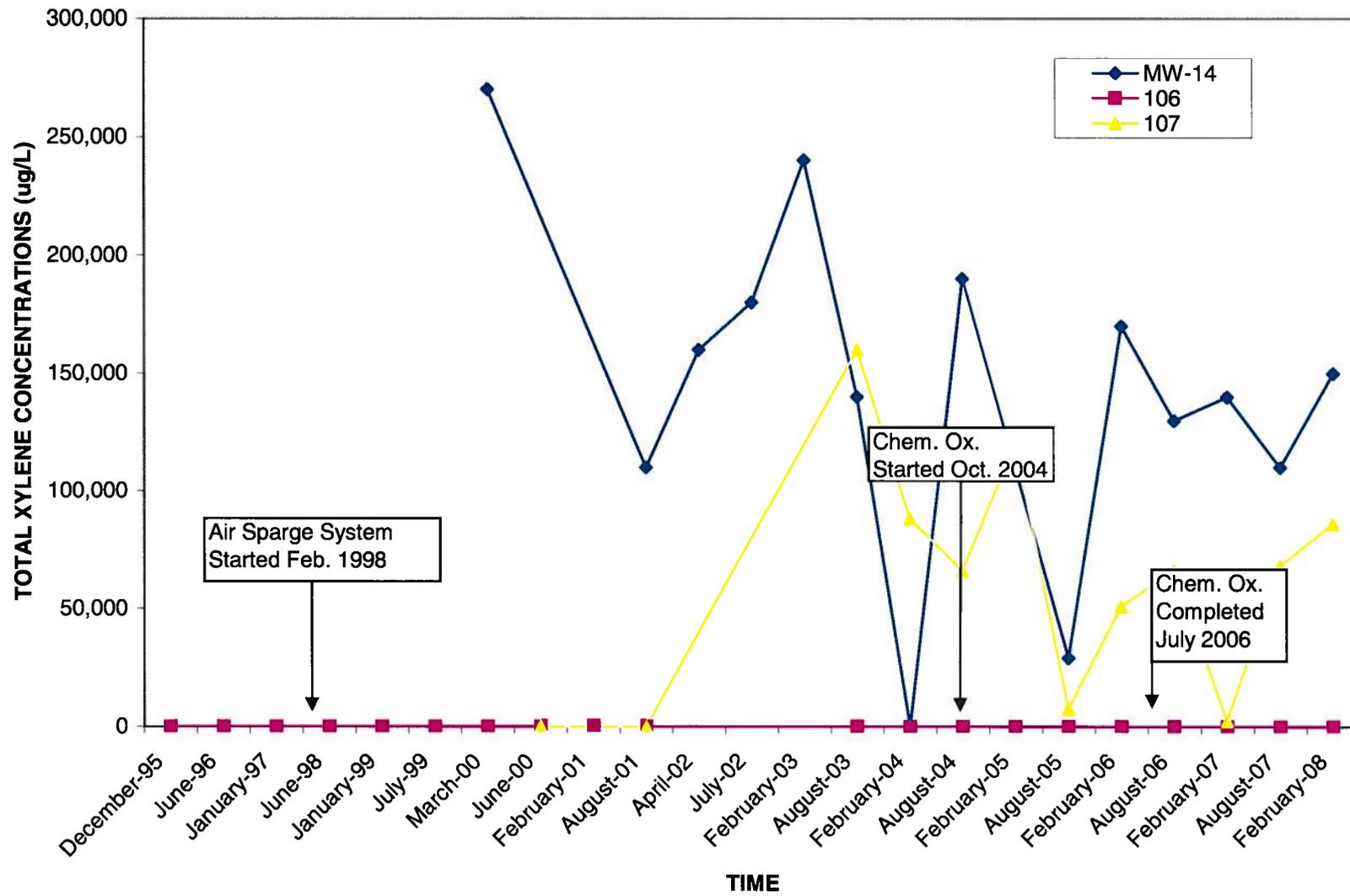
**APPENDIX B**

**GRAPHS – GROUNDWATER QUALITY DATA FOR SELECTED MONITORING  
WELLS**

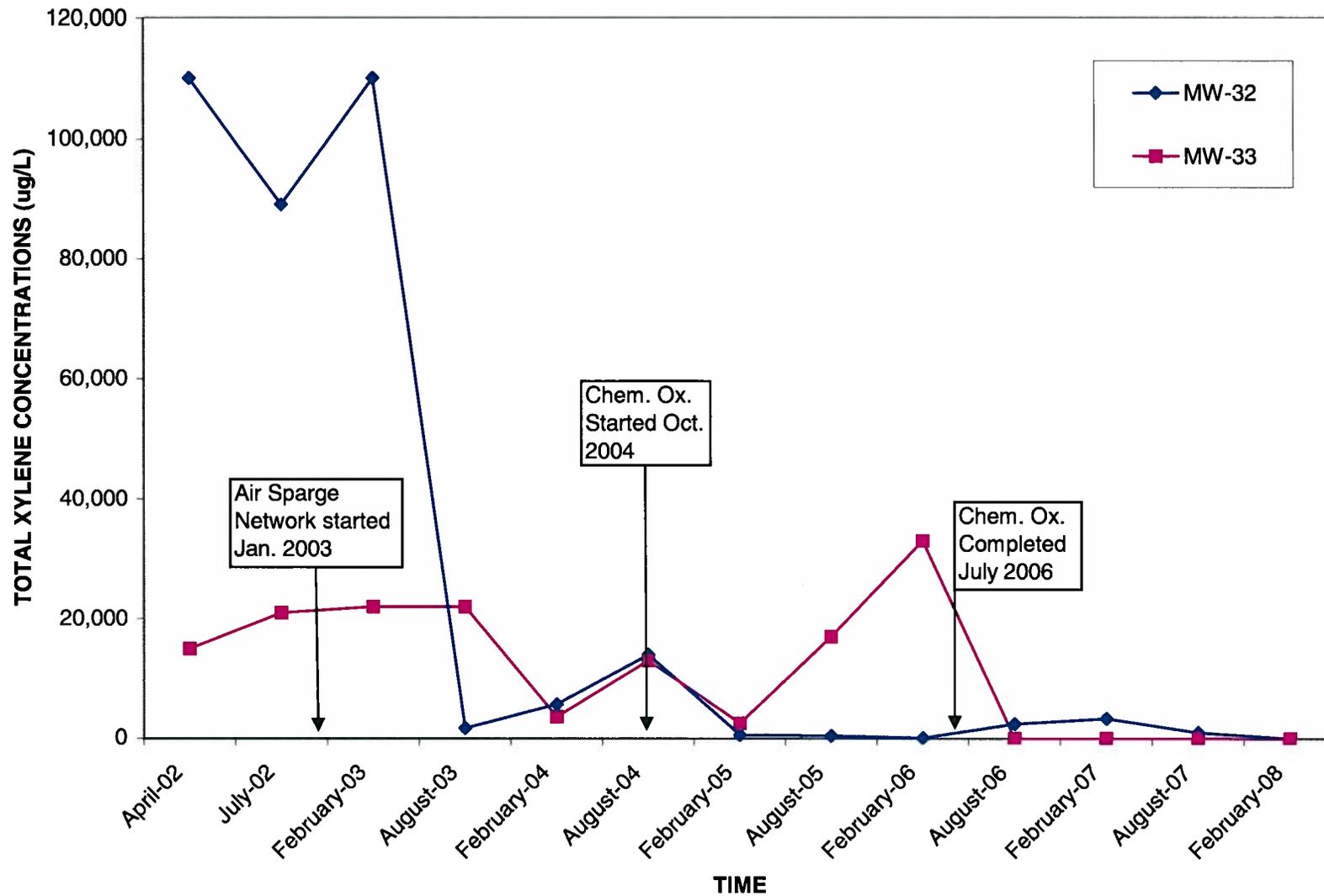
## MONITORING WELLS ASSOCIATED WITH AIR SPARGE NETWORK A



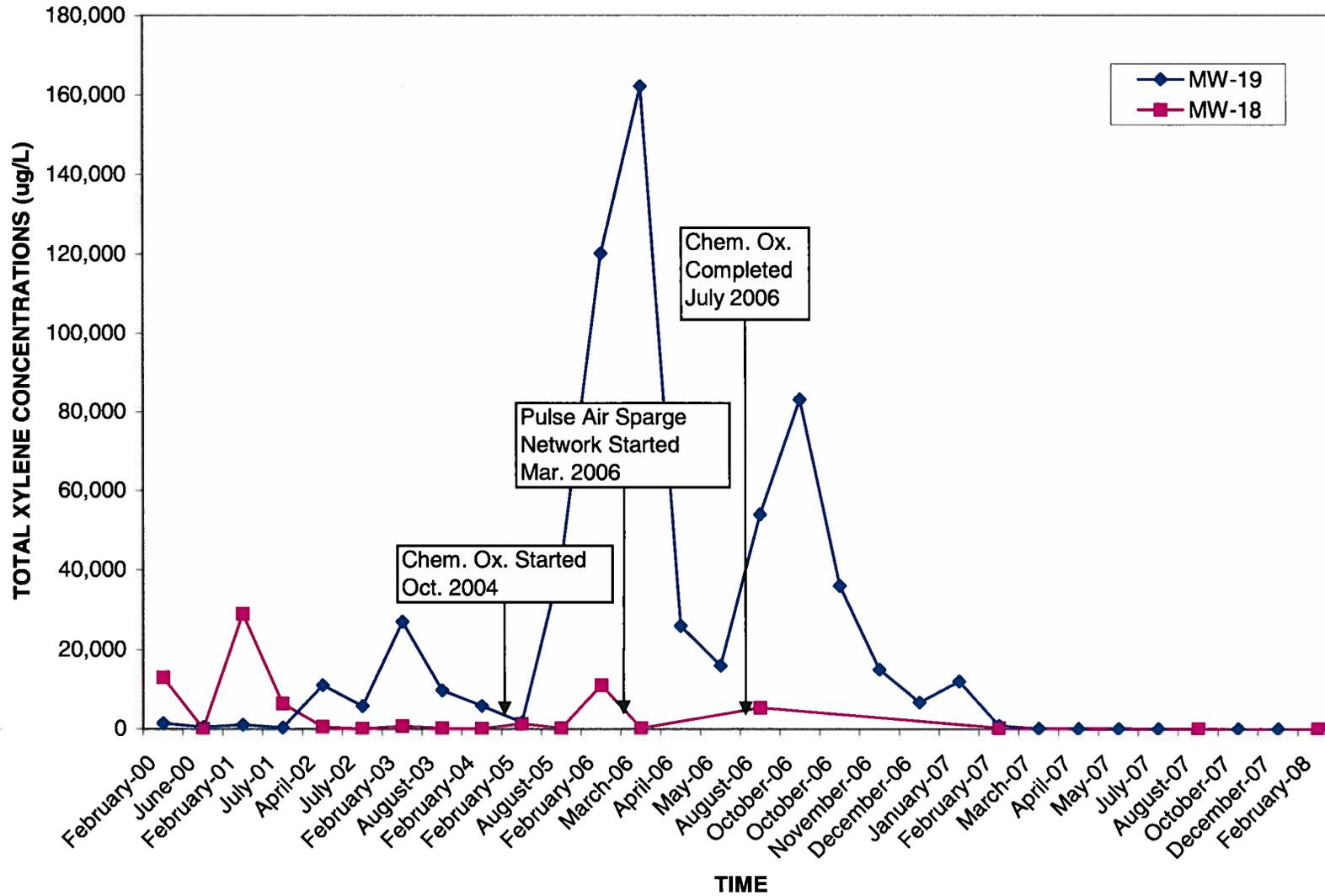
### MONITORING WELL ASSOCIATED WITH AIR SPARGE NETWORK B



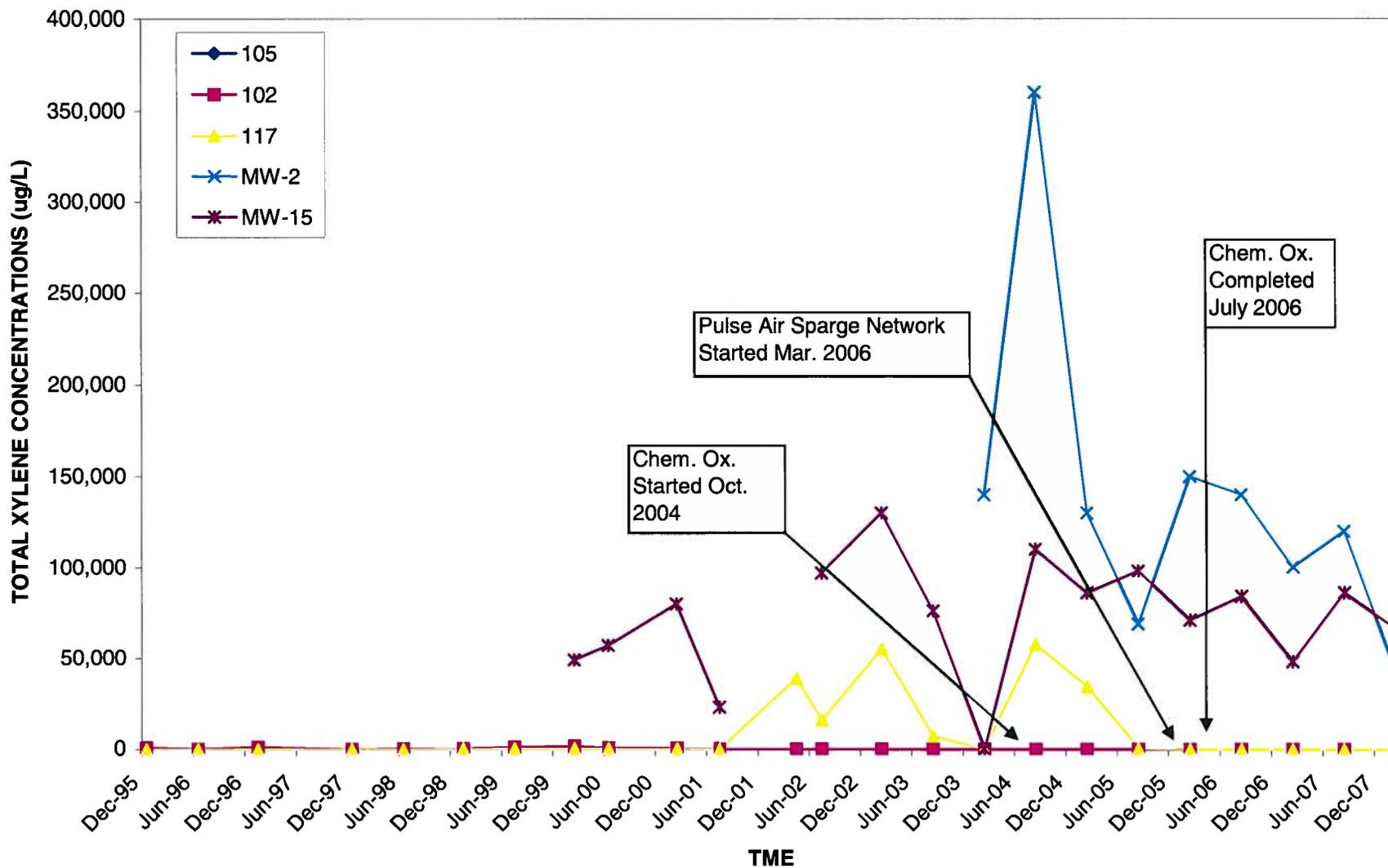
### MONITORING WELLS ASSOCIATED WITH AIR SPARGE NETWORK C



## MONITORING WELLS ASSOCIATED WITH THE PULSE AIR SPARGE NETWORK ZONE 1



## MONITORING WELLS ASSOCIATED WITH PULSE AIR SPARGE NETWORK ZONE 2



### SELECTED BACKGROUND WELLS

