REMEDIATION UPDATE REPORT
FOR
FEBRUARY 2003 to SEPTEMBER 2003

FLINT HILLS RESOURCES, LP
NORTH TERMINAL
3325 RIVER ROAD
WILMINGTON, NORTH CAROLINA

DECEMBER 30, 2003

PREPARED FOR:

REISS REMEDIATION COMPANY
4111 EAST 37TH STREET NORTH
WICHITA, KANSAS 67220

CATLIN PROJECT NO. 195-033/201-125

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December 30, 2003

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BY:

North Carolina Department of Environment
and Natural Resources
Division of Water Quality
Attn: Dr. Charles L. Stehman, P.G.
127 Cardinal Drive Extension
Wilmington, North Carolina 28405-3845

Re: Remediation Update Report for February 2003 to September 2003
Flint Hills Resources, LP - North Terminal
Wilmington, North Carolina
CATLIN Project No. 195-033

Dear Dr. Stehman:

On behalf of Reiss Remediation Company for the Flint Hills Resources, LP, attached is the Remediation Update Report concerning the above-referenced site.

Upon your review of this report, please contact Ms. Elizabeth Rasor if you should have any questions concerning this project.

Sincerely,

Mark Sawicki for

Stephan A. Tyler
Project Manager

Jeffery K. Becken, P.E.
Project Engineer

Enclosure

cc: Ms. Elizabeth Rasor, Reiss Remediation Co. (w/ encl.)
Mr. Dan Smading, Flint Hills Resources, LP (w/ encl.)
Flint Hills Resources, LP – North Terminal Facility (w/ encl.)

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REMEDIATION UPDATE REPORT
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DECEMBER 30, 2003

1.0 INTRODUCTION

1.1 PURPOSE

CATLIN Engineers and Scientists (CATLIN) is submitting this Remediation Update Report on behalf of Reiss Remediation Company (Reiss) for the Flint Hills Resources, L.P. (FHR) North Terminal at 3325 River Road, Wilmington, North Carolina (see Figure 1).

The purpose of this report is to update the status of the subsurface soil and surficial groundwater remediation activities and to present current environmental findings, from February 2003 to September 2003, at two areas of concern within the FHR-North Terminal in Wilmington, North Carolina. CATLIN prepared a Corrective Action Plan Addendum (CAPA) dated August 9, 2002 that evaluated the subsurface soil and groundwater remediation associated with this Remediation Update Report. North Carolina Department of Environment and Natural Resources (NCDENR), Groundwater Section (GWS) personnel reviewed the CAPA and submitted a Statement of General Agreement in October 2002.

1.2 SITE INFORMATION

The FHR North Terminal is a bulk chemical and fuel storage and transfer facility, which occupies an area of approximately 37 acres. Thirty-three (33) of the 37 acres are located on the east side of River Road, and the remaining four acres are located west of River Road. The North Terminal is subdivided into two facilities as illustrated on Figure 2. These facilities are identified as the PX Facility and the Gasoline/#2 Fuel Oil Facility. The following is a brief description of each facility:

Paraxylene Facility - The Paraxylene facility has seven aboveground storage tanks (ASTs) and associated pipelines for the storage and transfer of Paraxylene (PX). In addition, there is a PX truck loading rack and a railcar loading rack area. This facility is still active.

Gasoline/Fuel Oil Facility – This facility has seven ASTs and associated pipelines, which had been utilized for the storage and transfer of gasoline and fuel oil. Gasoline additives were stored in five additional ASTs. This facility also has a truck and railcar loading rack area. The areas of concern within the Gasoline/Fuel Oil Facility addressed in this report are referred to as the Loading Rack Area. Since April of 2001, the gasoline and fuel oil ASTs, associated pipelines, and the truck and railcar loading rack areas have been inactive and no longer contain product.

2.0 BACKGROUND INFORMATION

2.1 PARAXYLENE FACILITY

2.1.1 Brief Incident History

Since Phillips Petroleum constructed the facility in 1929, it has been utilized to handle various gasolines, additives, #2 fuel oils and PX. Since 1929, 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) Groundwater Section (GWS). This report focuses on the current PX remediation efforts referenced in the CAPA.

2.1.2 Contaminants of Concern

The primary contaminants of concern (as agreed upon by NCDENR) at the PX Facility is dissolved PX, one of three xylenes isomers (ortho, meta, and para). Currently, analytical laboratories do not have the technology to accurately distinguish between metaxylene and Paraxylene 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.

As detailed in the CAPA, the goal for surficial groundwater remediation is to reduce dissolved M/P xylene concentrations to the 15A NCAC 2L.0202 North Carolina Groundwater Quality Standard (2L GWQS) of 530 micrograms per liter (µg/L) or for PX remediation data (graphical representation) to reach an asymptotic trend. Groundwater laboratory samples are analyzed for M/P xylene concentrations in µg/L per EPA Method 602 to evaluate the dissolved concentrations per the monitoring plan discussed in Section 5.1 of this report.

2.2 LOADING RACK AREA

2.2.1 Brief Incident History

A specific event that may have caused the groundwater contamination is not known for the Loading Rack Area. However, since the surficial groundwater has been impacted with dissolved gasoline, fuel oil and paraxylene constituents, it has been assumed that historical operation of the truck and railcar loading rack areas has resulted in several minor releases. Therefore, this report focuses on the activities associated with the remediation of the contaminated subsurface soils and surficial groundwater from the historical operation of the truck loading rack area within the Loading Rack Area.

2.2.2 Contaminants of Concern

As documented in the CAPA, the initial investigation of the Loading Rack Area revealed the following gasoline, fuel oil and paraxylene compounds: Benzene, sec-Butylbenzene, Ethylbenzene, Isopropylbenzene, Naphthalene, MTBE, n-Propylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and Total Xylene concentrations in excess of the current and interim 2L GWQS. As detailed in the CAPA, the goal for surficial groundwater remediation is to reduce dissolved concentrations to the current and interim 2L GWQS. Groundwater laboratory samples are analyzed for volatile compounds in μg/L per EPA Method 8260B to evaluate the dissolved concentrations per the monitoring plan discussed in Section 5.2 of this report.

3.0 ADDITIONAL ASSESSMENT ACTIVITIES

3.1 PARAXYLENE FACILITY

During this past monitoring period no additional assessment activities were conducted at the PX Facility; however, the presence of MTBE in selected wells continues to be evaluated. The presence of MTBE was briefly discussed during an on-site meeting between Reiss, CATLIN and the NCDENR Groundwater Quality Section personnel on October 1, 2002. As noted during the meeting, MTBE was being evaluated due to the presence within a National Pollution Discharge Elimination System (NPDES) effluent sample. CATLIN has compiled historical MTBE data in the attached Table 7. Based on the historical data, CATLIN intends to continue to evaluate the presence of MTBE in the future.

3.2 LOADING RACK AREA

Dr. Charles Stehman of the NCDENR WiRo GWS requested that FHR define the extent of the impacted surficial groundwater on the down gradient APEX property located to the west of the Loading Rack Area. A Right-to-Enter Agreement, for the installation of six shallow groundwater-monitoring wells, was submitted to APEX personnel in July 2003. During this past period, written comments or approval have

not been received from APEX. CATLIN will provide the status of this assessment activity within a future Remediation Update Report.

4.0 SITE REMEDIATION ACTIVITIES

4.1 PARAXYLENE FACILITY

A summary of the on-site soil, groundwater and free-phase product remediation activities are summarized as follows:

4.1.1 Soil

As part of the initial remedial activities, a horseshoe oriented SVE galley was installed four feet below grade along the north, west, and south edge of the AST 301 foundation (see Figure 3). A 2-HP soil vent unit was installed on March 21, 1995 and was operated continuously until January 2003. After an equipment failure a descision was made to discontinue operation of the soil vent unit because of the minimal M/P xylene concentrations of the August 2002 SVE exhaust air data (See Section 6.1.1 of this report) and the planned remediation activities.

4.1.2 Surficial Groundwater

4.1.2.1 Air Sparge System

Air sparging is an in situ remediation method involving aeration of the impacted groundwater with ambient air. In this application, pressurized ambient air (± 27 pounds per square inch) is sparged into the impacted surficial aquifer through a series of vertical injection wells. As ambient air migrates upward through the groundwater, dissolved volatile hydrocarbon compounds partition (volatilize) into the vapor phase. In addition, the air sparging increases the dissolved oxygen (DO) concentrations in the groundwater, which enhances biological degradation of petroleum hydrocarbons by indigenous microorganisms in the soil and groundwater. A discussion of the current DO data is presented in Section 6.1.2 of this report. Due to the relative proximity of the groundwater table to the ground surface and the lack of potential receptors being adversely affected by vapors, vapors are allowed to naturally vent to the atmosphere.

The air sparge system for this site is a vertical well network of deep (± 38 feet deep) and shallow (± 18 to 23 feet deep) air sparge wells. Currently, a continuous air sparge system is at the following two locations (See Figure 3):

- Network A – along the northwest property boundary between monitoring wells 119 and MW-20.
- Network B – in the vicinity of the area between monitoring wells 106 and 113.

Networks A and B began operation on February 6, 1998. During this past monitoring period, four shallow air sparge wells were added to Network A. See new (green) air sparge well locations illustrated on Figure 3. The new shallow air sparge wells have been operational since July 2003.

Network C (See Figure 3) is operating within the dissolved PX plume along the north property boundary in the vicinity of the area near monitoring wells MW-32 and MW-33. Network C began operation in January 2003 as a Pulse Air Sparge (PAS) system. PAS system consists of injecting a pulse of ambient air, below the contaminated zone of the impacted aquifer, through a vertical air sparge well. As air is injected into the aquifer, a de-watered sphere grows around the sparge point. This spherical volume of air continues to grow displacing groundwater until the top of the sphere is about to break through the surface of the groundwater table. Prior to "breakthrough", the air injection is terminated and the surrounding aquifer is allowed to recharge the sparged zone before the next "pulse".

The influence of the air sparge system is predominantly determined by obtaining groundwater DO readings at monitoring wells up gradient and down gradient of the networks. A discussion of the current DO data is presented in Section 6.1.2 of this report.

A discussion of the current surficial groundwater PX concentration data in the vicinity of the air sparge systems is presented in Section 6.1.2 of this report.

4.1.2.2 Groundwater Recovery Operations

The FHR North Terminal has a Facility Wastewater Treatment Plant (FWTP), NPDES Permit No. NC00076732, for treatment of site surficial groundwater, AST water bottoms and collected stormwater runoff. FHR site personnel conduct the FWTP operation, maintenance and reporting activities. Currently, impacted surficial groundwater from four recovery well locations (KRW-3, KRW-4, KRW-5 and KRW-6) is pumped into the FWTP. Refer to Figure 3 for recovery well locations. Effluent from KRW-4, and KRW-5 is pumped through a 500-gallon oil/water separator prior to draining into lift station SD-1. Area stormwater runoff, as well as the recovery

well effluent, is pumped from lift station SD-1 to the FWTP. Effluent from recovery wells KRW-3 and KRW-6 are pumped directly to the FWTP. A discussion of the volumes of groundwater pumped from the recovery wells to the FWTP is included in Section 6.1.2 of this report.

Recovery well RW-2 has not been active since October 2000 due to low water table within the vicinity of the recovery well.

4.1.2.3 Proposed Groundwater Remediation System Expansion

The CAPA proposed the installation of two additional groundwater recovery wells (KRW-7 and KRW-8) that, along with existing recovery well KRW-5, would pump recovered groundwater to a groundwater remediation system (referred to as the pretreatment system in CAPA) that discharges into an infiltration gallery. The primary components of the remediation system will consist of an oil/water separator, an air stripper and an effluent tank.

However, as discussed in a recent telephone conversation between Mr. Jeffery K. Becken, P.E. of CATLIN and Dr. Charles F. Stehman, Ph.D., P.G., FHR is in the process of re-evaluating our proposed remedial system. As of the submittal of this report, CATLIN and Reiss have scheduled a meeting with Dr. Stehman to discuss the potential modifications to the proposed remedial system.

4.1.3 Free-Phase PX

Shortly after installation of recovery well KRW-5 in November 1997, free-phase PX began to accumulate in the recovery well. At that time, a number of piezometers were installed in the vicinity of KRW-5 to delineate the PX plume. Free-phase PX accumulated in KRW-5 and the surrounding piezometers. In an attempt to determine the source, FHR personnel initiated precautionary system checks of the active PX pipelines and ASTs. All active aboveground pipelines, associated valves, pumps, etc. were inspected and hydrostatic tested. Also, all site AST PX inventory checks indicated no loss of product. During this time period, an abnormality was detected which consisted of a low surficial groundwater table level. In completing the August 7, 2000 site Comprehensive Site Assessment (CSA), it became evident that several subsurface PX smear zones remain from previous significant PX releases. The accumulation of free-phase PX appears to coincide with periods when low surficial groundwater table levels allow the liberation of free product trapped in the remnant smear zone.

Free-phase PX that has been observed in wells is manually recovered with either a sorbent or a bailer. All recovered free-phase PX is temporarily stored in a satellite drum (55 gallon) in the vicinity of the area near recovery well

KRW-5. This satellite drum is labeled as "Recovered Paraxylene – Off Spec. Fuel". Once the level within the satellite drum has reached the safe fill level (approximately 50 gallons), FHR personnel responsible for the disposal are notified. FHR personnel date and then transport the satellite drum to the on-site hazardous storage area in the vicinity of the area near the Loading Rack Area fuel vapor recovery system (decommissioned). FHR personnel coordinate off-site transport and proper disposal of the satellite drum. A discussion of the free-phase PX recovered during this monitoring period is discussed within Section 6.1 of this report.

4.2 LOADING RACK AREA

A summary of the on-site soil, groundwater and free-phase product remediation activities are summarized below.

4.2.1 Soil

The impacted soil within the Loading Rack Area was proposed in the CAPA to be treated in combination with the proposed groundwater remediation systems. However, as previously referenced, FHR is in the process of re-evaluating our proposed remedial system. As of the submittal of this report, CATLIN and Reiss have scheduled a meeting with Dr. Stehman to discuss the potential modifications to the proposed remedial system.

4.2.2 Surficial Groundwater

The remediation of the surficial groundwater in the Loading Rack Area was proposed in the CAPA to be completed by use of a combination of remediation systems. However, as previously referenced, FHR is in the process of re-evaluating our proposed remedial system. As of the submittal of this report, CATLIN and Reiss have scheduled a meeting with Dr. Stehman to discuss the potential modifications to the proposed remedial system.

4.2.3 Free-Phase Product

As was reported in the CAPA, free phase product was initially detected in monitoring wells KWM-8, KMW-9, KMW-12 and KMW-13. Free-phase product that accumulates in these monitoring wells has been manually recovered, stored, and disposed of in the same manner discussed in Section 4.1.3.

A discussion of the free product recovered during this monitoring period is discussed within Section 6.2.3 of this report.

5.0 MONITORING PLAN

The following sections discuss the monitoring plan that was generally followed during the time period of February 2003 to September 2003.

5.1 PARAXYLENE FACILITY

Monthly

- Check and maintain operation of all recovery wells
- Check and maintain operation of the air sparge system.
- Gauge all recovery wells and selected monitoring wells for depth to surficial groundwater table and possible free-phase product.

Semi-Annual (February and August)

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

- Obtain representative groundwater samples from selected site monitoring wells for M/P-Xylenes analysis per EPA Method 602. Monitoring wells would be 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 are obtained from surficial groundwater of selected monitoring wells.
- Submit a semi-annual Site Remediation Update Report.

5.2 LOADING RACK AREA

Monthly

- Gauging of selected monitoring wells for depth to surficial groundwater table and the potential presence of free-phase product.

Semi-Annual (February and August)

The following activities are completed in addition to the tasks performed on a monthly basis:

- Obtain representative groundwater samples from selected site monitoring wells for VOC analysis per EPA Method 8260B.
- Submit a semi-annual Site Remediation Update Report.

6.0 SITE REMEDIATION PROGRESS

6.1 PARAXYLENE FACILITY

6.1.1 Soil

As previously discussed in Section 4.1.1, a 2-HP SVE system to remove remnant PX from subsurface soils west of AST 301 has not been operational since January 2003. PX vapor emitted from the SVE system was a combination of PX from remnant soil and groundwater contamination. The previous site Remediation Report for the period of April 2002 to February 2003 indicated the approximate calculated volume of PX extracted between March 21, 2002 and August 5, 2002 to be 2,271.8 gallons.

6.1.2 Surficial Groundwater

6.1.2.1 Dissolved Oxygen Data

As previously stated, the goal of an air sparge system are to volatilize organic constituents and to maintain aerobic conditions to facilitate biodegradation of the compounds. Aerobic conditions, can be assessed by monitoring the dissolved oxygen levels in surrounding monitoring wells. Aerobic conditions are generally those with dissolved oxygen levels greater than one (1) mg/L.

During the August 19, 2003 site visit, the DO meter was not operational; however, data obtained during a previous site (August 1, 2003) has been provided in Table 2 of this report. This data was obtained through the use of a YSI Model 51B water quality meter. The latest DO concentration data has been summarized in Table 2 and illustrated on Figure 7. The DO concentrations at selected monitoring wells (108, 113, 117, 119, MW-12, MW-15 and MW-16) located beyond the anticipated influence of the air sparge networks ranged from 0.4 to 1.0 mg/L. Dissolved oxygen concentrations of monitoring wells located within the anticipated influence of the air sparge networks have been summarized as follows:

Network	Monitoring Wells	DO Range
A	MW-17, MW-18 MW-19	2.6 to 7.4
B	121, MW-14	1.6 to 2.0
C	MW-32, MW-33	2.0 to 5.4

While the air sparge Network B injection rates have been relatively the same as those of Networks A and C, the increase in surficial groundwater DO has not been as significant well as those gauged around Networks A and C. CATLIN will continue to monitor DO in all areas on a monthly basis.

6.1.2.2 Surficial Groundwater Table Data

On August 19, 2003, CATLIN personnel visited the site in order to gauge selected monitoring wells for depth to water and potential free-phase product. Table 1 lists the water table data and interpolated water table isocontour elevations have been illustrated on Figure 5. The general surficial groundwater gradient appears to remain toward the northwest. Note that the pumping influences at the active recovery wells KRW-3, KRW-4, KRW-5 and KRW-6 are evident in the contour patterns which affects the gradient in the vicinity of the PX area.

6.1.2.3 Surficial Groundwater Recovery Data

In order to monitor current groundwater recovery well operations, recovery well pumping records are maintained along with effluent samples which are collected from the recovery wells and analyzed for M/P xylenes (EPA Method 602). On August 19, 2003, CATLIN personnel obtained the latest effluent samples from active recovery wells KRW-3, KRW-4, KRW-5 and KRW-6. Copies of the laboratory test results are provided in the attached Appendix A.

The following calculation is utilized to determine the approximate volume (gallons) of PX recovered from each recovery well between sampling events:

$$PXV = V \times \frac{3.7854\ L}{gal.} \times \frac{1\ g}{1{,}000\ mg} \times \frac{1\ lb.}{453.59\ g} \times \frac{8.34\ lb.}{gal.} \times SG \times PX\ conc.$$

PX concentration:

PXV = Volume of PX (gallons)
V = Total Removed Volume from Recovery Well Flow Meter (gallons)
PX conc. = Average of PX concentration during the selected time period (parts per million)
SG = Specific Gravity of PX = 0.861

Recovery well pumping records and analytical data has been utilized to estimate the amount of dissolved PX recovered since March 19, 1995 to the current period, August 19, 2003. The total volumes recovered are summarized in Table 6.

6.1.2.4 Dissolved PX Concentration Data

As previously stated, CATLIN personnel obtained representative groundwater samples from selected monitoring wells on August 19 and 20, 2003. The selected wells were first developed (a minimum of three volumes) utilizing either a disposable bailer or a Geopump (peristaltic). All site groundwater samples were submitted to PACE Analytical Services, Inc. (North Carolina Wastewater Classification No. 12) for analysis of dissolved M/P-xylene concentrations per EPA Method 602.

A copy of the laboratory report has been provided in Appendix A. Results of the latest, as well as historical, M/P-xylene concentration data are summarized on Table 3. The interpolated impact of dissolved M/P-xylenes on the site surficial groundwater is illustrated on Figure 8. Please note that Figure 8 includes data interpreted by CATLIN for the State Ports Authority (SPA) Property from the Groundwater Monitoring Report dated September 15, 2003 prepared by Groundwater & Environmental Services of NC, Inc. (GES) and CATLIN's March 2003 temporary well data to illustrate the interpolated surficial groundwater M/P xylene concentrations adjacent to River Road.

As illustrated on Figure 8, the current laboratory results indicate two predominant areas of high PX concentrations within the site surficial groundwater. One area is the area in the general vicinity of recovery well KRW-5 and the other is general area to the west of AST 801.

A review of PX concentration data in Table 3 and PX concentration contours in Figure 8 indicate a progressive decline in the surficial groundwater PX concentrations at the monitoring wells along the boundary air sparge Network A.

PX concentrations along the air sparge Network B, between monitoring wells 106 and 113, have varied from a general decline in monitoring well 106 (350,000 μg/L to 35,000 μg/L) while PX concentrations at monitoring well MW-14 have demonstrated limited progress fluctuating (2/29/00 to 2/24/03) from 270,000 to 110,000 μg/L, and then back up to 240,000 μg/L. Air sparge Network B injection rates have been within design recommendations. In reviewing the dissolved DO and PX concentration data, it appears that air sparge Network B has had limited influence on the target area. Future site monitoring plans will include continued evaluation of the Network B radius of influence.

The PX concentration data in Table 3 and PX concentration contours in Figure 8 along air sparge Network C shows strong remediation progress at monitoring well MW-32 (110,000 ug/L to 1,700 ug/L). However, at monitoring well MW-33, also within the apparent influence of Network C, PX concentrations have remained at 22,000 ug/L for the last two sample events. Plans are to continue to monitor aeration influence at monitoring well MW-33 in the future.

6.1.3 Free-Phase PX Data

As previously stated in Section 4.1.3, free-phase PX observed in wells is manually recovered. During the time period covered by this report (February 2003 to September 2003), free-phase PX has been observed in recovery wells KRW-5 and KRW-6 at the PX Facility. Table 6 indicates the quantity of free-phase PX recovered during this current time period.

6.2 LOADING RACK AREA

6.2.1 Soil

The impacted soil within the Loading Rack Area was proposed in the CAPA to be treated in combination with the groundwater remediation systems discussed in Section 4.2.2. However, as previously referenced, FHR is in the process of re-evaluating our proposed remedial system. As of the submittal of this report, CATLIN and Reiss have scheduled a meeting with Dr. Stehman to discuss the potential modifications to the proposed remedial system.

6.2.2 Surficial Groundwater

6.2.2.1 Surficial Groundwater Table Data

On September 16, 2003, CATLIN personnel visited the site in order to gauge site monitoring wells, depth to water, potential free-phase product and obtain representative groundwater samples from selected monitoring wells. Table 4 lists the water table data and interpolated water table isocontour elevations have been illustrated on Figure 6. The relatively steep surficial groundwater table gradient across River Road observed during the September 16, 2003 site visit has been prevalent since the site monitoring wells were initially installed for the CAPA.

6.2.2.2 Dissolved Oxygen Data

Due to the previously mentioned status of the remediation activities at the Loading Rack Area, dissolved oxygen concentrations were not collected during the time period of February 2003 and September 2003.

6.2.2.3 Dissolved Volatile Concentration Data

As previously stated, CATLIN personnel obtained representative groundwater samples from selected monitoring wells on September 16, 2003. The selected wells were first developed (a minimum of three volumes) utilizing either a disposable bailer or a Geopump (peristaltic). All site groundwater samples were submitted to PACE Analytical Services, Inc. (North Carolina Wastewater Classification No. 12) for analysis of dissolved volatile compounds per EPA Method 8260B.

A copy of the laboratory report has been provided in Appendix A. Table 5 provides a summary of the historical volatile compounds above the 2L GWQS. Figures 9, 10, and 11 illustrate selected volatile concentrations of monitoring wells within the Loading Rack Area. In reviewing Table 5, the comparison of the last two sample events illustrates dissolved volatile concentrations within the site surficial groundwater have remained generally the same with isolated increases and decreases.

6.2.3 Free-Phase Product Data

During this monitoring period of February 2003 to September 2003, levels (>0.02') of free-phase product have not been observed in these monitoring wells. Therefore, no free-phase product remediation activities were conducted during this time period at the Loading Rack Area.

7.0 FUTURE ACTIVITIES

As previously referenced CATLIN and Reiss have scheduled a meeting with Dr. Stehman to discuss the potential modifications to the proposed remedial system. Following this meeting, additional documentation regarding the planned activities and project schedule will be provided for review and approval. In the meantime, monitoring and operation of the existing remediation systems, as described above will continue.

Stephen A. Tyler
Project Scientist

Jeffery K. Becken, P.E.
Project Engineer

TABLES

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED MONITORING WELLS – AUGUST 19 AND 20, 2003

PARAXYLENE FACILITY

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

DATA POINT	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (IN FEET)
TYPE II MONITORING WELLS					
MW-1	39.45	7.75	NMT	--	31.70
MW-3	37.84	7.80	NMT	--	30.04
MW-5	39.56	7.21	NMT	--	32.35
MW-6	NA	6.31	NMT	--	NA
MW-7	38.71	7.68	NMT	--	31.03
MW-8	39.85	7.65	NMT	--	32.20
MW-9	36.88	3.84	NMT	--	33.04
MW-10	35.45	4.37	NMT	--	31.08
MW-11	35.14	4.56	NMT	--	30.58
MW-12	35.23	6.73	NMT	--	28.50
MW-13	33.90	7.49	NMT	--	26.41
MW-14	29.39	7.84	NMT	--	21.55
MW-15	28.82	8.46	NMT	--	20.36
MW-16	28.21	7.67	NMT	--	20.54
MW-17	25.57	5.26	NMT	--	20.31
MW-18	26.92	10.12	NMT	--	16.80
MW-19	27.59	10.62	NMT	--	16.97
MW-20	29.29	11.65	NMT	--	17.64
MW-28	36.41	6.97	NMT	--	29.44
MW-30	35.20	NM	NM	--	NM
MW-32	33.69	8.86	NMT	--	24.83
MW-33	35.16	9.39	NMT	--	25.77
101	28.88	5.27	NMT	--	23.61
102	29.88	6.17	NMT	--	23.71
104	NA	NM	NM	--	NM
105	NA	NM	NM	--	NM
106	30.62	8.25	NMT	--	22.37
107	31.33	8.02	NMT	--	23.31
108	31.50	9.27	NMT	--	22.23
113	33.90	11.01	NMT	--	22.89
117	31.33	10.93	NMT	--	20.40
119	26.68	5.87	NMT	--	20.81
121	29.20	NM	NM	--	NM

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED MONITORING WELLS – AUGUST 19 AND 20, 2003

PARAXYLENE FACILITY

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

DATA POINT	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (IN FEET)
TYPE III MONITORING WELLS					
TMW-1	30.43	NM	NM	--	NM
TMW-2	35.40	NM	NM	--	NM
RECOVERY WELLS					
RW-2	36.18	NM	NM	--	NM
KRW-3	29.07	15.55	NMT	--	13.52
KRW-4	27.82	13.47	NMT	--	14.35
KRW-5	32.58	18.60	NMT	--	13.98
KRW-6	30.90	15.88	NMT	--	15.02
SUN PIEZOMETERS					
S-1	26.80	NM	NM	--	NM
S-2	27.46	NM	NM	--	NM
S-3	27.47	NM	NM	--	NM

Notes:
Specific gravity adjustment for para-xylene is 0.86.
NMT = No Measurable Thickness
NM = Not Measured
NA = Not Available

TABLE 2

SUMMARY OF DISSOLVED OXYGEN ANALYSIS FROM SELECTED MONITORING WELLS FEBRUARY 2003 to AUGUST 2003

PARAXYLENE FACILITY

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	DISSOLVED OXYGEN (PPM)
108	2/24/2003	0.6
	8/1/2003	0.4
113	8/1/2003	0.8
117	2/24/2003	0.6
	8/1/2003	0.8
119	2/24/2003	0.8
	8/1/2003	0.8
121	2/24/2003	2.4
	8/1/2003	1.6
MW-12	2/24/2003	0.8
	8/1/2003	0.6
MW-14	2/24/2003	1.4
	8/1/2003	2.0
MW-15	2/24/2003	0.8
	8/1/2003	1.0
MW-16	2/24/2003	0.4
	8/1/2003	0.6
MW-17	2/24/2003	8.4
	8/1/2003	7.4

TABLE 2

SUMMARY OF DISSOLVED OXYGEN ANALYSIS FROM SELECTED MONITORING WELLS FEBRUARY 2003 to AUGUST 2003

PARAXYLENE FACILITY

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	DISSOLVED OXYGEN (PPM)
MW-18	2/24/2003	2.2
	8/1/2003	2.6
MW-19	2/24/2003	2.4
	8/1/2003	6.2
MW-20	2/24/2003	2.8
	8/1/2003	NM
MW-32	2/24/2003	4.3
	8/1/2003	5.4
MW-33	2/24/2003	3.2
	8/1/2003	2.0

PPM = Parts Per Million
NM = Not Measured

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
TYPE II MONITORING WELLS		
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
MW-9	2/29/2000	<1
	2/24/2003	<1.0
	8/20/2003	<1.0
MW-10	2/29/2000	96,000
	2/21/2001	89,000
	7/31/2001	110,000
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
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
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
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
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
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
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	BQL
	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
MW-30	1/19/1999	BQL
	7/14/1999	BQL
	3/1/2000	<1
	6/13/2000	<1
	2/21/2001	<1

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
MW-32	4/1/2002	110,000
	7/31/2002	89,000
	2/25/2003	110,000
	8/19/2003	1,700
MW-33	4/1/2002	15,000
	7/31/2002	21,000
	2/25/2003	22,000
	8/19/2003	22,000
101	2/24/2003	1,300
	8/19/2003	3,900
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
104	7/30/2002	<50
105	7/30/2002	<50

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
107	6/13/2000	96,000
	7/31/2002	240,000
	8/19/2003	160,000
108	4/1/2002	130,000
	2/24/2003	150,000
	8/19/2003	97,000
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
114	6/13/1998	42

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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	
TYPE III MONITORING WELLS		
TMW-1	12/8/1995	220
	2/29/2000	300
TMW-2	2/29/2000	4.2

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
	RECOVERY WELLS	
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
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
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

TABLE 3

SUMMARY OF EPA METHOD 602 (M/P XYLENES) LABORATORY RESULTS - GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	M/P XYLENE (µg/L)
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
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
KRW-7	8/21/2003	21,000
KRW-8	8/21/2003	100,000
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

FP = Free Product
* Temporary wells have been permanently abandoned

TABLE 4

SUMMARY OF GROUNDWATER ELEVATIONS AT SELECTED MONITORING WELLS – SEPTEMBER 16, 2003

LOADING RACK AREA

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

DATA POINT	TOP OF CASING ELEVATION (in feet)	DEPTH TO WATER (in feet)	FREE PRODUCT THICKNESS (in feet)	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION (IN FEET)
TYPE II MONITORING WELLS					
KMW-1	19.62	7.26	NMT	--	12.36
KMW-3	14.63	5.59	NMT	--	9.04
KMW-4	20.15	10.85	NMT	--	9.30
KMW-5	16.29	2.90	NMT	--	13.39
KMW-6	24.90	2.21	NMT	--	22.69
KMW-7	25.11	1.92	NMT	--	23.19
KMW-8	25.86	2.40	NMT	--	23.46
KMW-9	25.73	2.69	NMT	--	23.04
KMW-10	24.92	2.23	NMT	--	22.69
KMW-11	27.34	2.66	NMT	--	24.68
KMW-12	24.19	11.69	NMT	--	12.50
KMW-13	23.84	11.29	NMT	--	12.55
KMW-14	23.31	10.66	NMT	--	12.65

Notes:
Specific gravity adjustment for para-xylene is 0.86.
NMT = No Measurable Thickness
NM = Not Measured

TABLE 5

SUMMARY OF GROUNDWATER DISSOLVED VOLATILES DATA
EPA METHOD 8260B

LOADING RACK AREA

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL ID	DATE	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m/p-Xylenes	o-Xylene	All Other 8260B Analytes
T15A NCAC 2L.0202 Groundwater Standards		1	70	70	29	70	200	21	70	1,000	350	350	530		Varies
T-1**	8/1/2001	-	-	-	-	-	-	-	-	-	-	-	1,100	-	-
T-2**	8/1/2001	-	-	-	-	-	-	-	-	-	-	-	4.9*	-	-
T-3**	8/24/2001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	210	<5.0	ND
T-4**	8/24/2001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	44	<5.0	ND
T-5**	8/24/2001	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	34,000	<500	ND
T-6**	8/24/2001	8,300	<500	<500	<500	<500	48,000	830	<500	4,100	1,700	<500	11,000	860	ND
T-8**	8/24/2001	20	<5.0	<5.0	<5.0	<5.0	21	<5.0	<5.0	18	<5.0	<5.0	22	<5.0	ND
KMW-1	4/94	-	-	-	-	-	-	-	-	-	-	-	7,900*	-	-
	2/10/99	-	-	-	-	-	-	-	-	-	-	-	780*	-	-
	2/24/00	-	-	-	-	-	-	-	-	-	-	-	66.9*	-	-
	9/21/00	-	-	-	-	-	-	-	-	-	-	-	128*	-	-
	2/14/01	-	-	-	-	-	-	-	-	-	-	-	16,000*	-	-
	7/10/01	-	-	-	-	-	-	-	-	-	-	-	7,600*	<500	-
	8/1/01	-	-	-	-	-	-	-	-	-	-	-	4,900*	-	-
	8/24/01	<500	<500	<500	3,400	<500	<500	<500	<500	<500	<500	<500	4,500	<500	ND
	9/18/01	<50	<50	81	<50	<50	<50	<50	<50	<50	340	170	3,000	<50	BQL
	1/3/02	<5.0	<5.0	37	<5.0	<5.0	<5.0	5.5	9	<5.0	39	<5.0	<10	<5.0	ND
	2/27/02	<5.0	5.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	51	43	<10	<5.0	ND
	2/28/03	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	540	<50	ND
	9/16/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	53	40	22	<5.0	ND
KMW-2	4/94	-	-	-	-	-	-	-	-	-	-	-	19,000*	-	-
	2/10/99	-	-	-	-	-	-	-	-	-	-	-	5*	-	-

All results in µg/l
- = No data
Shaded values indicate conentrations in excess of applicable 2L Groundwater Standards.

ND = Not detected
BQL = Below Quantitation Limits

* = Determined with EPA Method 602 analysis
** = Temporary wells have been permanently abandoned
J = Value is estimated since concentration was below calibration range.

TABLE 5

SUMMARY OF GROUNDWATER DISSOLVED VOLATILES DATA
EPA METHOD 8260B

LOADING RACK AREA

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL ID	DATE	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m/p-Xylenes	o-Xylene	All Other 8260B Analytes
T15A NCAC 2L.0202 Groundwater Standards		1	70	70	29	70	200	21	70	1,000	350	350	530		Varies
KMW-3	4/94	-	-	-	-	-	-	-	-	-	-	-	6.5*	-	-
	2/10/99	-	-	-	-	-	-	-	-	-	-	-	96*	-	-
	2/14/01	-	-	-	-	-	-	-	-	-	-	-	62*	-	-
	8/24/01	<5.0	<5.0	<5.0	33	<5.0	13	6.7	5.7	<5.0	17	<5.0	59	<5.0	ND
	9/18/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	BQL
	1/3/02	<5.0	<5.0	99	17	13	<5.0	16	48	<5.0	110	38	32	<5.0	ND
	2/27/02	<5.0	8.4	<5.0	12	<5.0	<5.0	5.3	44	<5.0	48	29	23	<5.0	ND
	2/28/03	<5.0	<5.0	<5.0	12	<5.0	<5.0	<5.0	<5.0	<5.0	37	11	38	<5.0	ND[2]
	9/16/03	<5.0	<5.0	<5.0	120	<5.0	<5.0	8.1	9.4	<5.0	74	32	250	<5.0	ND
KMW-4	4/94	-	-	-	-	-	-	-	-	-	-	-	28,000*	-	-
	2/24/00	-	-	-	-	-	-	-	-	-	-	-	9.4*	-	-
	9/21/00	-	-	-	-	-	-	-	-	-	-	-	198*	-	-
	2/14/01	-	-	-	-	-	-	-	-	-	-	-	110*	-	-
	8/24/01	<5.0	<5.0	<5.0	<5.0	<5.0	210	7.1	<5.0	<5.0	7.7	<5.0	<10	<5.0	ND
	9/17/01	1	1	1	<1	8	17	8	12	<1	12	10	28	<1	BQL
	1/3/02	<5.0	<5.0	<5.0	41	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	52	<5.0	ND
	2/27/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND
	2/28/03	<5.0	<5.0	<5.0	<5.0	<5.0	9	<5.0	<5.0	<5.0	15	11	<5.0	<5.0	ND
	9/16/03	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND
KMW-5	9/17/01	<20	<20	<20	<20	<20	<20	33	26	<20	210	56	800	<20	BQL
	1/3/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND
	2/27/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND[1]
	2/28/03	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	78,000	<500	ND
	9/16/03	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	13,000	<120	ND
KMW-6	9/17/01	<4.4	<8.4	<6.2	410	<7.4	<9.3	<14	<7.1	66	<9.7	<7.4	160,000	270	50
	1/3/02	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	19,000	<250	ND
	2/27/02	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	37,000	<500	ND
	2/28/03	67	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	6,300	<50	ND
	9/16/03	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	14,000	<120	ND
KMW-7	9/17/01	370	<10	<10	88	<10	330	48	12	450	120	36	570	330	BQL
	1/3/02	160	5.4	<5.0	24	<5.0	94	19	<5.0	44	20	7.1	100	16	ND
	2/27/02	270	<5.0	32	41	<5.0	110	41	5.5	210	33	31	180	140	ND
	2/28/03	120	<5.0	<5.0	74	<5.0	5.4	32	7.8	31	40	33	180	20	ND
	9/16/03	300	<5.0	<5.0	180	12	<5.0	150	22	14	170	62	560	8.2	ND

All results in µg/l
- = No data
ND = Not detected

BQL = Below Quantitation Limits
* = Determined with EPA Method 602 analysis
** = Temporary wells have been permanently abandoned
J = Value is estimated since concentration was below calibration range.

Shaded values indicate conentrations in excess of applicable 2L Groundwater Standards.
ND[1] = Chloroform was also detected in KMW-5 with a result of 7.5 µg/l.
ND[2] = Tert-butylbenzene was detected in KMW-3 with a result of 5.2 µg/l.

TABLE 5

SUMMARY OF GROUNDWATER DISSOLVED VOLATILES DATA
EPA METHOD 8260B

LOADING RACK AREA

FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL ID	DATE	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m/p-Xylenes	o-Xylene	All Other 8260B Analytes
T15A NCAC 2L.0202 Groundwater Standards		1	70	70	29	70	200	21	70	1,000	350	350	530		Varies
KMW-8	9/17/01	3,400	<200	450	840	<200	6,300	530	<200	600	2,300	580	12,000	650	BQL
	1/3/02	1,300	<100	<100	190	<100	3,700	180	130	<100	390	130	930	<100	ND
	2/27/02	0.17' FREE PHASE PRODUCT													
	2/28/03	1,400	<250	<250	550	<250	1,400	320	<250	<250	1,700	630	8,000	340	ND
	9/16/03	1,900	<250	<250	670	<250	1,600	480	<250	680	1,200	390	5,900	450	ND
KMW-9	9/17/01	6,200	<200	260	2,800	<200	3,900	540	360	1,100	1,000	<200	3,700	440	BQL
	1/3/02	0.21' FREE PHASE PRODUCT													
	2/27/02	0.12' FREE PHASE PRODUCT													
	2/28/03	NOT MEASURED, WELL DAMAGED/WELL WAS REPLACED ON 7/2/03													
	9/16/03	1,200	<250	<250	2,000	<250	540	660	340	1,200	2,700	830	10,000	1,200	ND
KMW-10	9/17/01	88	<20	<20	<20	<20	750	<20	<20	<20	<20	<20	<40	<20	BQL
	1/3/02	37	<10	<10	12	<10	120	15	<10	18	12	<10	37	18	ND
	2/27/02	32	<10	<10	<10	<10	69	10	<10	<10	<10	<10	<20	<10	ND
	2/28/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	9/16/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND
KMW-11	9/17/01	110	<80	<80	610	<80	<80	89	<80	2,000	650	130	2,500	1,200	BQL
	1/3/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	19	11	ND
	2/27/02	6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	32	5.2	<5.0	81	<5.0	ND
	2/28/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
	9/16/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	ND
KMW-12	1/3/02	0.30' FREE PHASE PRODUCT													
	2/27/02	1,400	<5.0	14	190	77	670	200	160	39	760	130	1,800	47	Varies
	2/28/03	3,500	<250	<250	730	<250	990	340	<250	<250	1,100	360	5,800	<250	ND
	9/16/03	2,000	<250	<250	680	<250	<250	370	<250	<250	950	290	4,400	<250	ND
KMW-13	1/3/02	2.51' FREE PHASE PRODUCT													
	2/27/02	690	<5.0	<5.0	140	24	1,800	160	46	34	100	38	35,000	74	ND
	2/28/03	690	<1,200	<1,200	<1,200	<1,200	1,100 J	<1,200	<1,200	<1,200	210 J	<1,200	19,000	<1,200	ND
	9/16/03	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	20,000	<1,000	ND
KMW-14	1/3/02	8.5	<5.0	<5.0	<5.0	<5.0	38	<5.0	<5.0	<5.0	<5.0	<5.0	2,900	<5.0	ND
	2/27/02	6.9	<5.0	<5.0	66	5	27	13	<5.0	<5.0	25	11	30,000	59	ND
	2/28/03	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	23,000	<120	ND
	9/16/03	<500	<500	<500	45,000	<500	<500	<500	<500	<500	<500	<500	38,000	<500	ND

All results in µg/l
- = No data
Shaded values indicate conentrations in excess of applicable 2L Groundwater Standards.

ND = Not detected
BQL = Below Quantitation Limits

* = Determined with EPA Method 602 analysis
** = Temporary wells have been permanently abandoned
J = Value is estimated since concentration was below calibration range.

TABLE 6

SURFICIAL GROUNDWATER RECOVERY DATA FOR PERIOD FEBRUARY 2003 to AUGUST 2003

PARAXYLENE FACILITY
FLINT HILLS RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	CURRENT PERIOD (2/03 to 8/03)		TO DATE	
	Volume of Groundwater Recovered (gal.)	Approx. Volume of PX Removed* (gal.)	Volume of Groundwater Recovered (gal.)	Approx. Volume of PX Removed (gal.)
RW-2 (Operated from 3/21/95 to 1/03)	0	0/0	4,249,488	46
KRW-3 (Operating since prior to March 19, 1995 event)	493,780	44/0	17,644,472	860
KRW-4 (Operating since November 3, 1997)	4,344,150	73/0	23,504,019	496
KRW-5 (Operating since November 3, 1997)	3,220,050	424/3.5	23,291,899	3,154
KRW-6 (Operating since January 17, 2001)	941,470	81/7	3,247,630	267

NOTE: RW-2 has been permanently turned off since October of 2000 due to low water table elevation.

Dissolved PX removed calculations are provided in Section 6.1.2.3 of the report text.

* Dissolved PX removed/PX manually removed

TABLE 7

HISTORICAL MTBE DATA - SURFICIAL GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	MTBE Concentration (µg/L)
TYPE II MONITORING WELLS		
MW-1	Jun-98	<20
MW-3	Jun-98	<2,000
MW-4	Jun-98	<10,000
MW-5	Jun-98	<1,000
MW-16	Jul-03	1,100
	Aug-03	<500
MW-17	Jul-03	2,100
	Aug-03	5.9
MW-28	Jun-98	<2
MW-30	Jun-98	<1
101	Jul-03	<100
	Aug-03	<50
102	Jun-96	1,100
	Jun-98	420
	Jan-99	150
	Jul-03	310
	Aug-03	200
104	Jul-02	5,100
105	Aug-02	390
106	Jun-96	420
	Aug-02	1,000
	Aug-03	<5,000

TABLE 7

HISTORICAL MTBE DATA - SURFICIAL GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	MTBE Concentration (µg/L)
107	Jul-02	<500
	Aug-02	<500
	Aug-03	<5,000
108	Aug-03	<5,000
113	Jan-99	<2
114	Jun-98	18
117	Jul-96	<5,000
	Jun-98	<20,000
119	Jun-96	14
	Jun-98	<100
	Apr-02	2,900
	Jul-02	6,400
	Aug-03	2,200
120	Jun-96	38
	Jun-98	160
	Jan-99	210
	Apr-02	1,300
121	Jun-96	<1,000
	Jun-98	<10,000
TEMPORARY WELLS		
M-1	Aug-02	1,500
M-2	Aug-02	<50

TABLE 7

HISTORICAL MTBE DATA - SURFICIAL GROUNDWATER

PARAXYLENE FACILITY
FLINT HILL RESOURCES, LP NORTH TERMINAL
WILMINGTON, NORTH CAROLINA

WELL I.D.	DATE	MTBE Concentration (µg/L)
RECOVERY WELLS		
RW-2	Jun-98	<1,000
	Apr-02	<500
	Jul-02	<500
KRW-3	Jun-98	<10,000
KRW-4	Jun-98	<4,000
	Apr-02	5,900
	Jul-02	2,900
	Aug-03	2,700
GASOLINE/FUEL OIL AST AREA MONITORING WELLS		
2	Apr-02	<5

FIGURES

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

GN 1°39' 29 MILS

MN 5½° 98 MILS

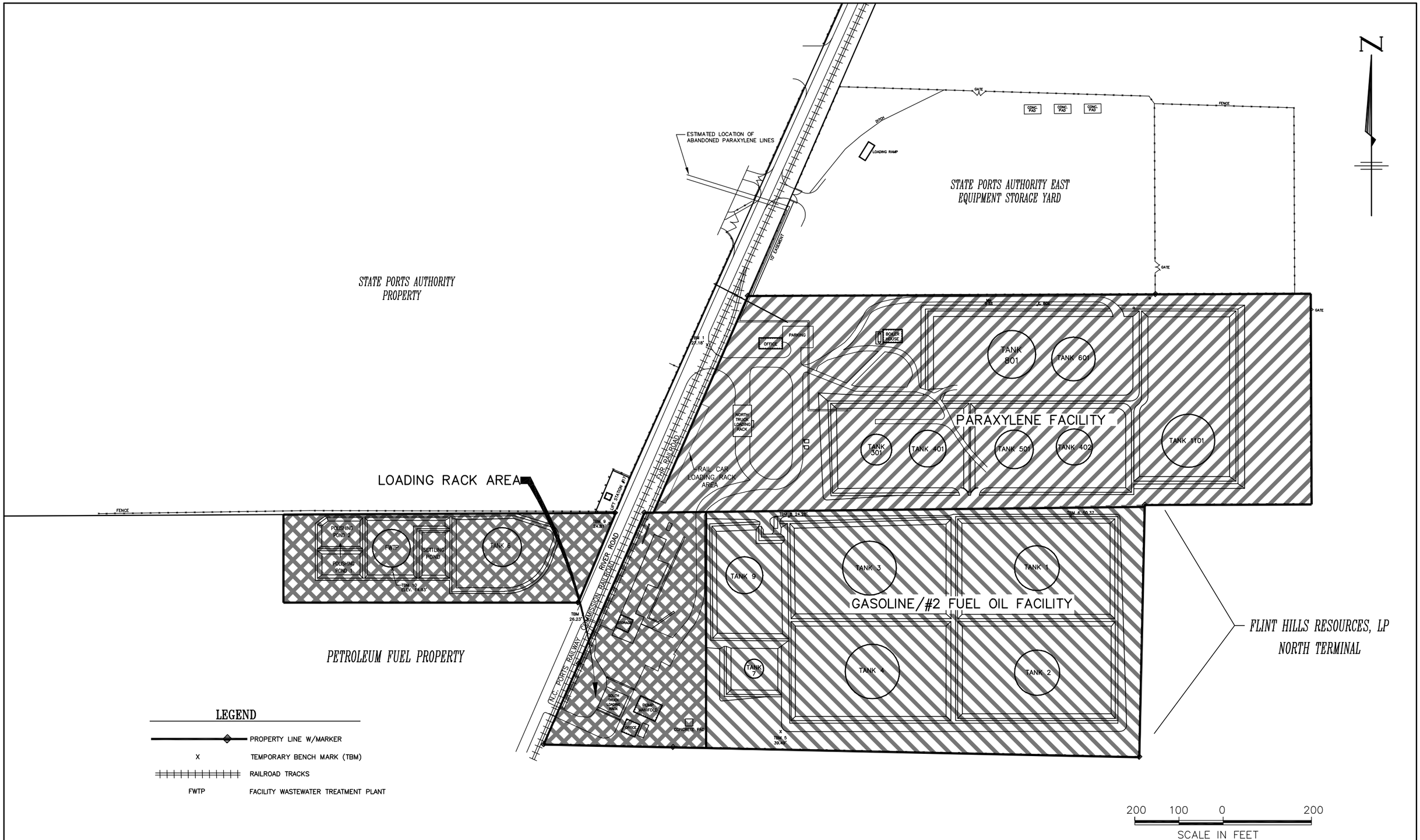
UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE MEAN RANGE OF TIDE IS APPROXIMATELY 3.6 FEET

QUADRANGLE LOCATION

CATLIN ENGINEERS and SCIENTISTS, WILMINGTON, NORTH CAROLINA	PROJECT: FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	TITLE: GENERAL LOCATION USGS TOPOGRAPHIC QUADRANGLE			FIGURE 1
	JOB NO: 201125-03	DATE: OCT 2003	SCALE: AS SHOWN	DRAWN BY: HCS	CHECKED BY: JKB

201125-03-OCT03-01

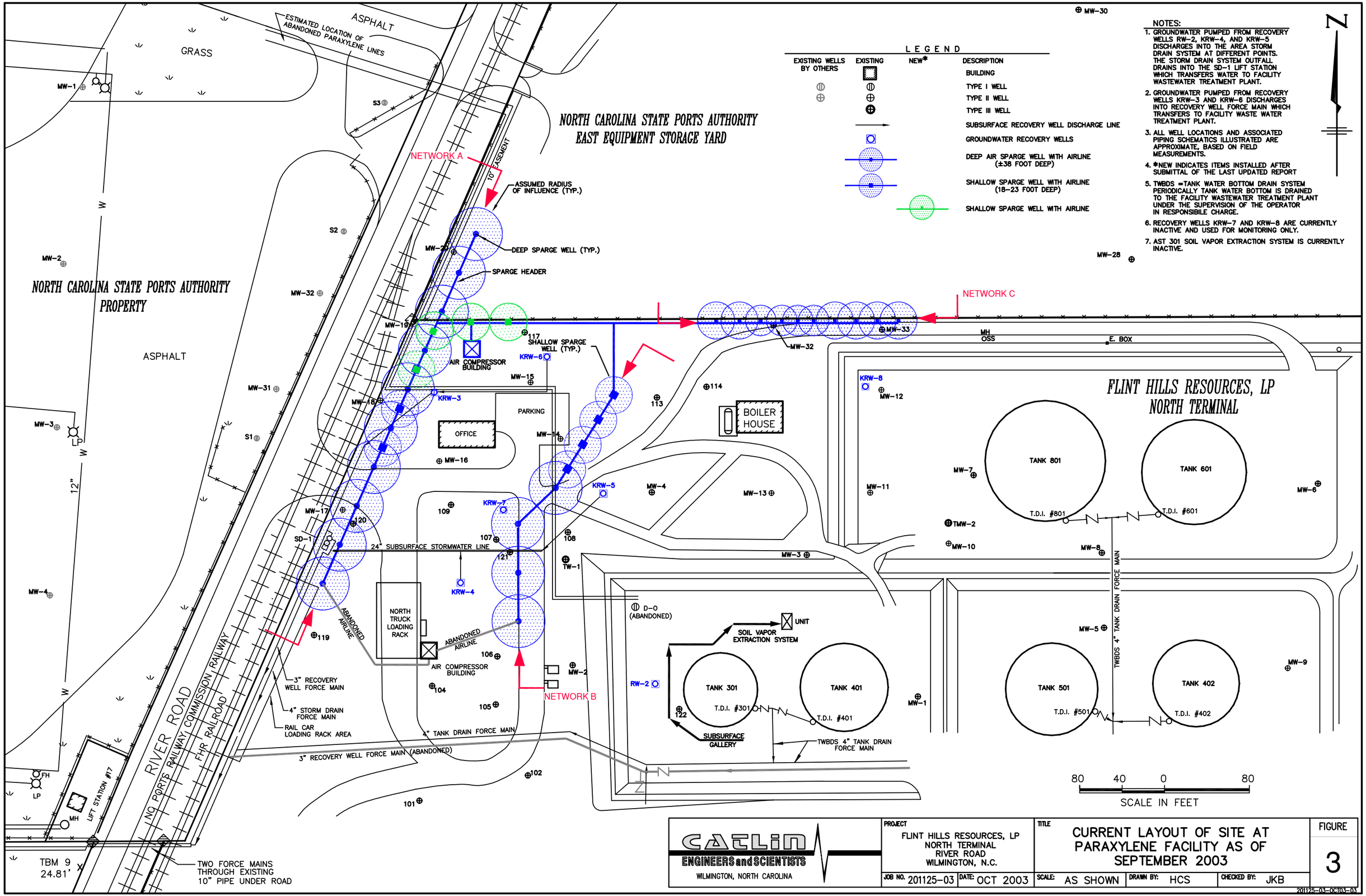


CATLIN
ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	SITE MAP	2

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
201125-03	OCT 2003	AS SHOWN	HCS	JKB

201125-03OCT-03-02



LEGEND

EXISTING WELLS BY OTHERS	EXISTING	NEW*	DESCRIPTION
			BUILDING
			TYPE I WELL
			TYPE II WELL
			TYPE III WELL
			SUBSURFACE RECOVERY WELL DISCHARGE LINE
			GROUNDWATER RECOVERY WELLS
			DEEP AIR SPARGE WELL WITH AIRLINE (±38 FOOT DEEP)
			SHALLOW SPARGE WELL WITH AIRLINE (18-23 FOOT DEEP)
			SHALLOW SPARGE WELL WITH AIRLINE

NOTES:

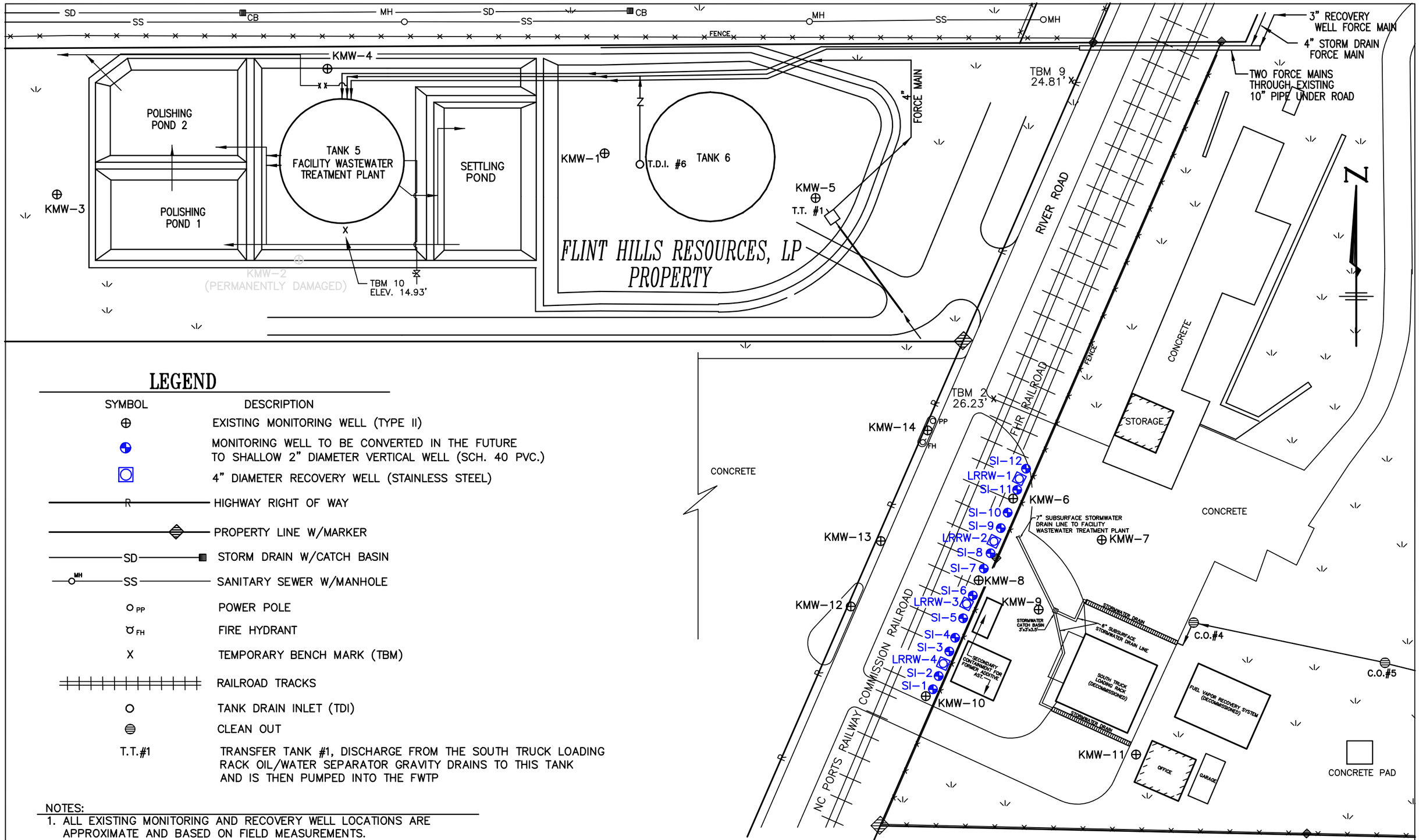
1. GROUNDWATER PUMPED FROM RECOVERY WELLS RW-2, KRW-4, AND KRW-5 DISCHARGES INTO THE AREA STORM DRAIN SYSTEM AT DIFFERENT POINTS. THE STORM DRAIN SYSTEM OUTFALL DRAINS INTO THE SD-1 LIFT STATION WHICH TRANSFERS WATER TO FACILITY WASTEWATER TREATMENT PLANT.
2. GROUNDWATER PUMPED FROM RECOVERY WELLS KRW-3 AND KRW-6 DISCHARGES INTO RECOVERY WELL FORCE MAIN WHICH TRANSFERS TO FACILITY WASTE WATER TREATMENT PLANT.
3. ALL WELL LOCATIONS AND ASSOCIATED PIPING SCHEMATICS ILLUSTRATED ARE APPROXIMATE, BASED ON FIELD MEASUREMENTS.
4. *NEW INDICATES ITEMS INSTALLED AFTER SUBMITTAL OF THE LAST UPDATED REPORT
5. TWBDS =TANK WATER BOTTOM DRAIN SYSTEM PERIODICALLY TANK WATER BOTTOM IS DRAINED TO THE FACILITY WASTEWATER TREATMENT PLANT UNDER THE SUPERVISION OF THE OPERATOR IN RESPONSIBILE CHARGE.
6. RECOVERY WELLS KRW-7 AND KRW-8 ARE CURRENTLY INACTIVE AND USED FOR MONITORING ONLY.
7. AST 301 SOIL VAPOR EXTRACTION SYSTEM IS CURRENTLY INACTIVE.

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	CURRENT LAYOUT OF SITE AT PARAXYLENE FACILITY AS OF SEPTEMBER 2003	3

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
201125-03	OCT 2003	AS SHOWN	HCS	JKB

201125-03-OCT03-03



LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING MONITORING WELL (TYPE II)
⊕	MONITORING WELL TO BE CONVERTED IN THE FUTURE TO SHALLOW 2" DIAMETER VERTICAL WELL (SCH. 40 PVC.)
◎	4" DIAMETER RECOVERY WELL (STAINLESS STEEL)
R	HIGHWAY RIGHT OF WAY
	PROPERTY LINE W/MARKER
SD	STORM DRAIN W/CATCH BASIN
MH SS	SANITARY SEWER W/MANHOLE
PP	POWER POLE
FH	FIRE HYDRANT
X	TEMPORARY BENCH MARK (TBM)
	RAILROAD TRACKS
○	TANK DRAIN INLET (TDI)
⊜	CLEAN OUT
T.T.#1	TRANSFER TANK #1, DISCHARGE FROM THE SOUTH TRUCK LOADING RACK OIL/WATER SEPARATOR GRAVITY DRAINS TO THIS TANK AND IS THEN PUMPED INTO THE FWTP

NOTES:

1. ALL EXISTING MONITORING AND RECOVERY WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. *NEW INDICATES ITEMS INSTALLED AFTER SUBMITTAL OF THE CAPA.

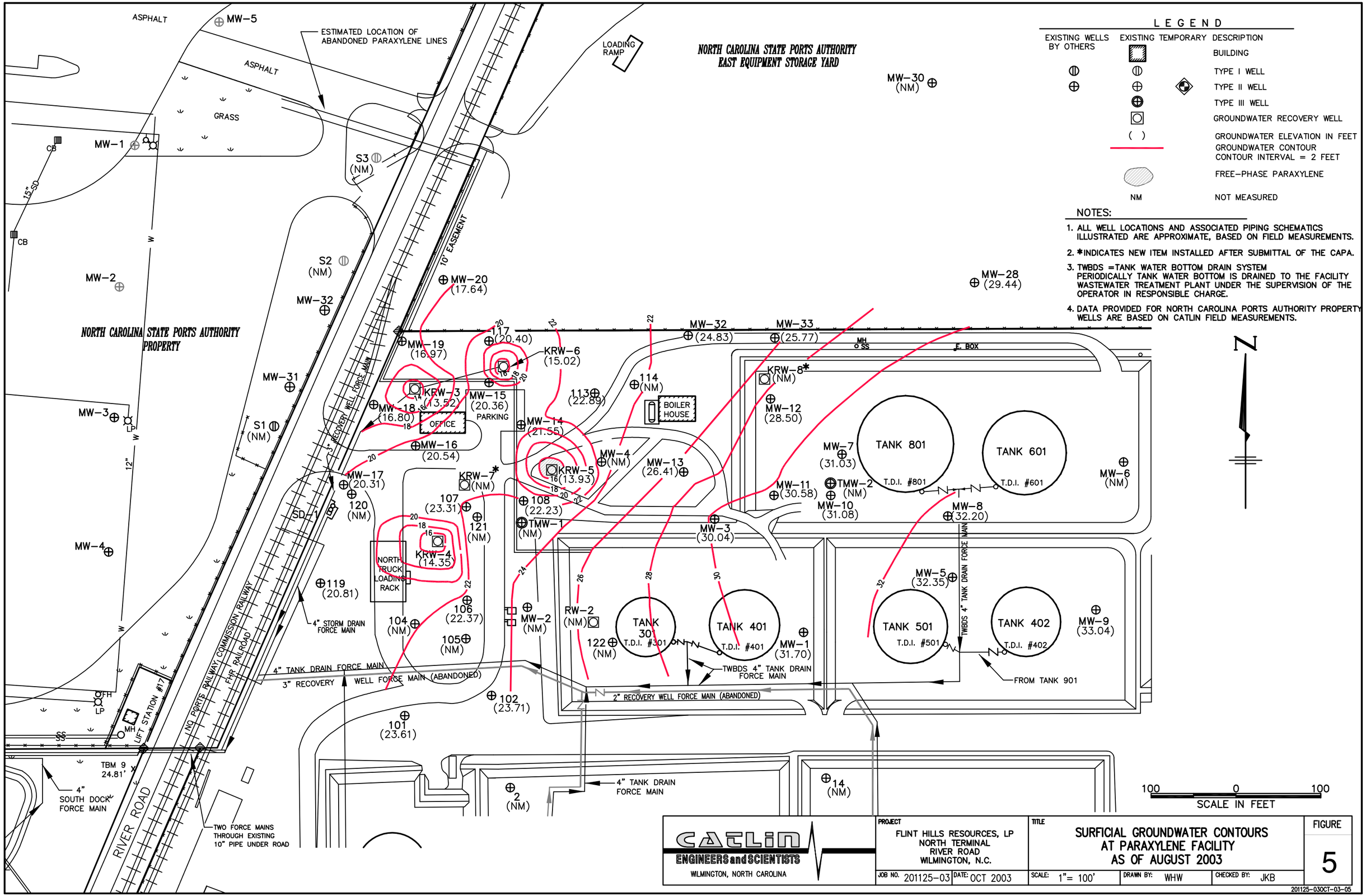
60 30 0 60
SCALE IN FEET

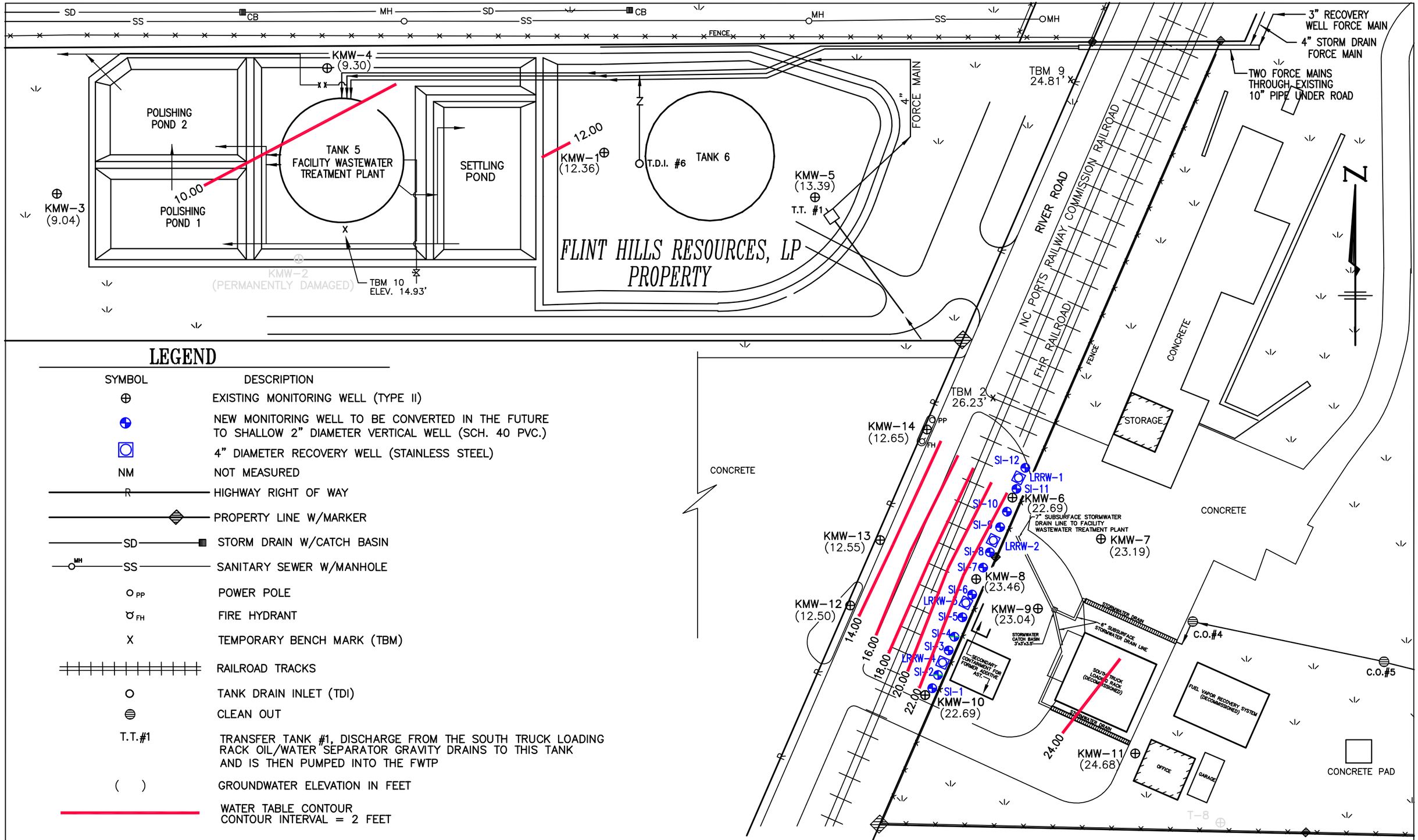
CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	CURRENT LAYOUT OF SITE AT LOADING RACK AREA AS OF SEPTEMBER 2003	4

JOB NO. 201125-03 | DATE: OCT 2003 | SCALE: 1"=60' | DRAWN BY: HCS | CHECKED BY: JKB

201125-03-OCT03-04


LEGEND
EXISTING WELLS BY OTHERS
EXISTING TEMPORARY
DESCRIPTION
BUILDING
TYPE I WELL
TYPE II WELL
TYPE III WELL
GROUNDWATER RECOVERY WELL
( )
GROUNDWATER ELEVATION IN FEET
GROUNDWATER CONTOUR
CONTOUR INTERVAL = 2 FEET
FREE-PHASE PARAXYLENE
NM
NOT MEASURED
NOTES:
1. ALL WELL LOCATIONS AND ASSOCIATED PIPING SCHEMATICS ILLUSTRATED ARE APPROXIMATE, BASED ON FIELD MEASUREMENTS.
2. *INDICATES NEW ITEM INSTALLED AFTER SUBMITTAL OF THE CAPA.
3. TWBDS =TANK WATER BOTTOM DRAIN SYSTEM PERIODICALLY TANK WATER BOTTOM IS DRAINED TO THE FACILITY WASTEWATER TREATMENT PLANT UNDER THE SUPERVISION OF THE OPERATOR IN RESPONSIBLE CHARGE.
4. DATA PROVIDED FOR NORTH CAROLINA PORTS AUTHORITY PROPERTY WELLS ARE BASED ON CATLIN FIELD MEASUREMENTS.
N
NORTH CAROLINA STATE PORTS AUTHORITY EAST EQUIPMENT STORAGE YARD
NORTH CAROLINA STATE PORTS AUTHORITY PROPERTY
ASPHALT
GRASS
ESTIMATED LOCATION OF ABANDONED PARAXYLENE LINES
LOADING RAMP
10' EASEMENT
3" RECOVERY WELL FORCE MAIN
OFFICE
PARKING
BOILER HOUSE
NORTH TRUCK LOADING RACK
TANK 801
T.D.I. #801
TANK 601
T.D.I. #601
TANK 301
T.D.I. #301
TANK 401
T.D.I. #401
TANK 501
T.D.I. #501
TANK 402
T.D.I. #402
TWBDS 4" TANK DRAIN FORCE MAIN
4" STORM DRAIN FORCE MAIN
4" TANK DRAIN FORCE MAIN
3" RECOVERY WELL FORCE MAIN (ABANDONED)
2" RECOVERY WELL FORCE MAIN (ABANDONED)
TWBDS 4" TANK DRAIN FORCE MAIN
FROM TANK 901
4" TANK DRAIN FORCE MAIN
4" SOUTH DOCK FORCE MAIN
TWO FORCE MAINS THROUGH EXISTING 10" PIPE UNDER ROAD
NC PORTS RAILWAY COMMISSION RAILWAY
FHR RAILROAD
LIFT STATION #17
RIVER ROAD
TBM 9 24.81'
SCALE IN FEET
100 0 100
CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA
PROJECT
FLINT HILLS RESOURCES, LP
NORTH TERMINAL
RIVER ROAD
WILMINGTON, N.C.
TITLE
SURFICIAL GROUNDWATER CONTOURS AT PARAXYLENE FACILITY AS OF AUGUST 2003
FIGURE
5
JOB NO. 201125-03
DATE: OCT 2003
SCALE: 1"= 100'
DRAWN BY: WHW
CHECKED BY: JKB
201125-03OCT-03-05



LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING MONITORING WELL (TYPE II)
	NEW MONITORING WELL TO BE CONVERTED IN THE FUTURE TO SHALLOW 2" DIAMETER VERTICAL WELL (SCH. 40 PVC.)
	4" DIAMETER RECOVERY WELL (STAINLESS STEEL)
NM	NOT MEASURED
R	HIGHWAY RIGHT OF WAY
	PROPERTY LINE W/MARKER
SD	STORM DRAIN W/CATCH BASIN
MH SS	SANITARY SEWER W/MANHOLE
PP	POWER POLE
FH	FIRE HYDRANT
X	TEMPORARY BENCH MARK (TBM)
	RAILROAD TRACKS
	TANK DRAIN INLET (TDI)
	CLEAN OUT
T.T.#1	TRANSFER TANK #1, DISCHARGE FROM THE SOUTH TRUCK LOADING RACK OIL/WATER SEPARATOR GRAVITY DRAINS TO THIS TANK AND IS THEN PUMPED INTO THE FWTP
( )	GROUNDWATER ELEVATION IN FEET
	WATER TABLE CONTOUR CONTOUR INTERVAL = 2 FEET

NOTES:

1. ALL EXISTING MONITORING AND RECOVERY WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. SI-# AND LRRW-# WELLS WERE NOT SAMPLED.

60 30 0 60

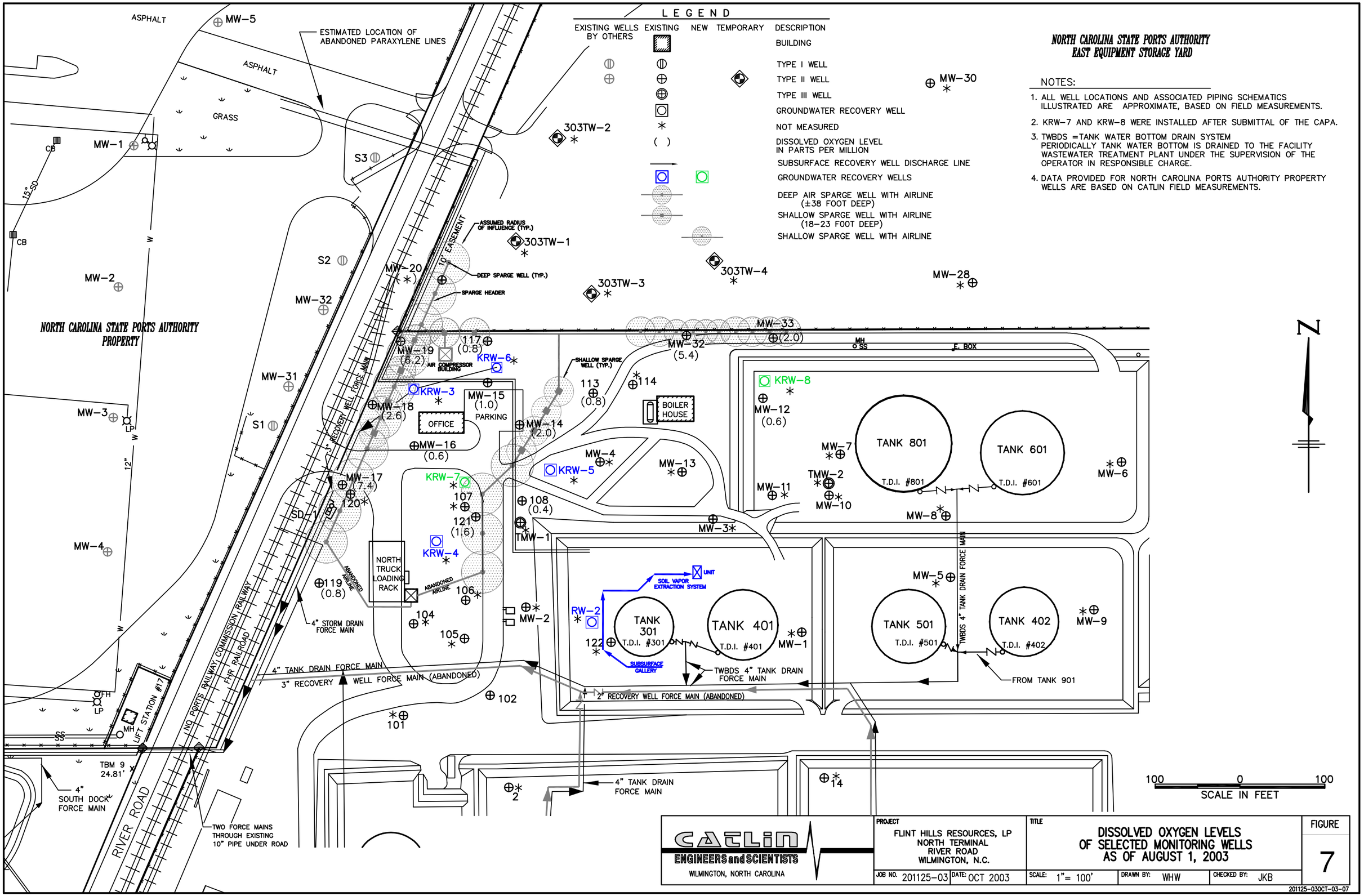
SCALE IN FEET

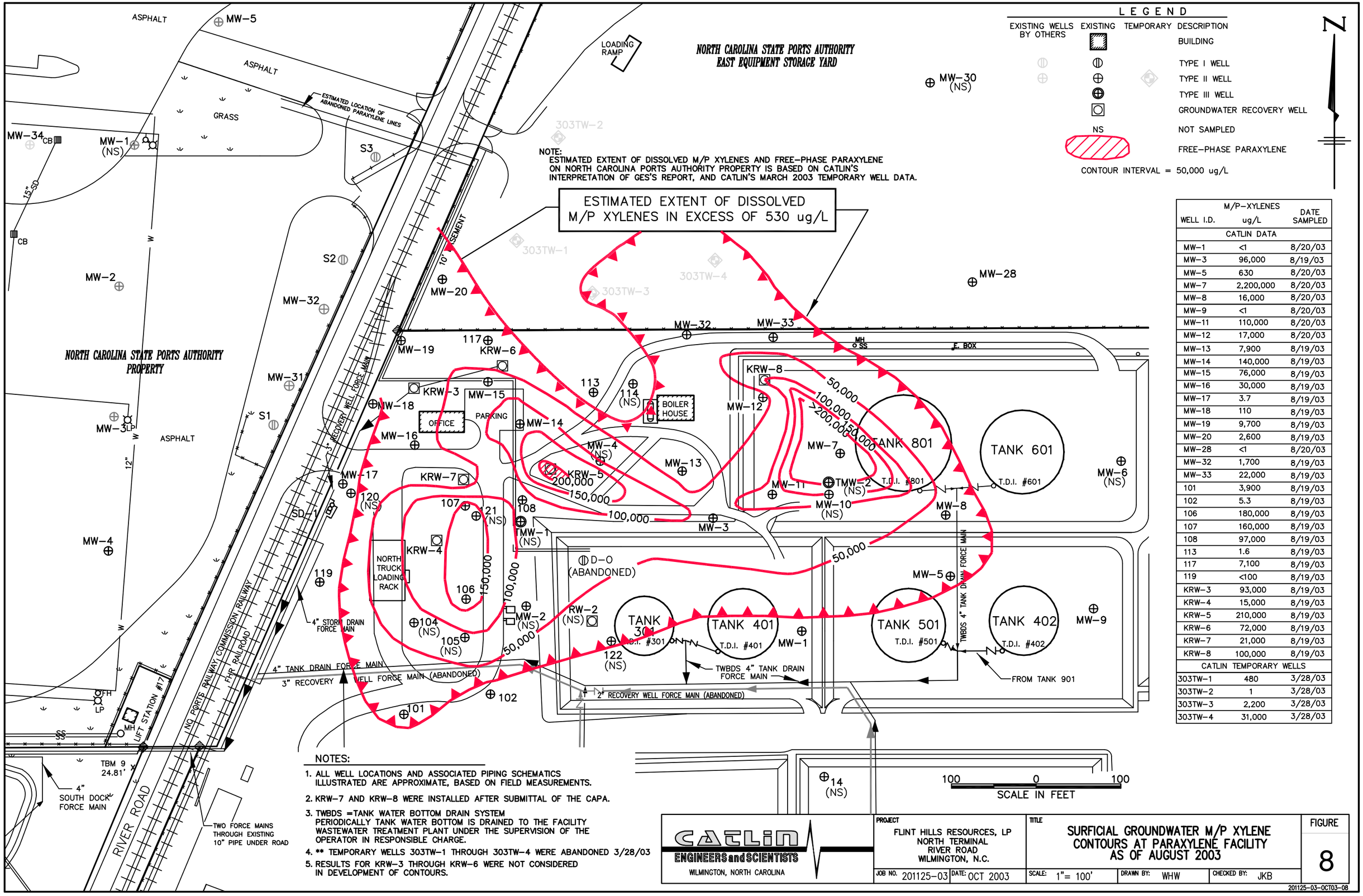
CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	SURFICIAL GROUNDWATER CONTOURS AT LOADING RACK AREA AS OF SEPTEMBER 2003	6

JOB NO. 201125-03 | DATE: OCT 2003 | SCALE: 1"=60' | DRAWN BY: WHW | CHECKED BY: JKB

201125-03-OCT03-06


LEGEND
EXISTING WELLS BY OTHERS
EXISTING
NEW
TEMPORARY
DESCRIPTION
BUILDING
TYPE I WELL
TYPE II WELL
TYPE III WELL
GROUNDWATER RECOVERY WELL
NOT MEASURED
DISSOLVED OXYGEN LEVEL IN PARTS PER MILLION
SUBSURFACE RECOVERY WELL DISCHARGE LINE
GROUNDWATER RECOVERY WELLS
DEEP AIR SPARGE WELL WITH AIRLINE (±38 FOOT DEEP)
SHALLOW SPARGE WELL WITH AIRLINE (18–23 FOOT DEEP)
SHALLOW SPARGE WELL WITH AIRLINE
NORTH CAROLINA STATE PORTS AUTHORITY
EAST EQUIPMENT STORAGE YARD
NOTES:
1. ALL WELL LOCATIONS AND ASSOCIATED PIPING SCHEMATICS ILLUSTRATED ARE APPROXIMATE, BASED ON FIELD MEASUREMENTS.
2. KRW–7 AND KRW–8 WERE INSTALLED AFTER SUBMITTAL OF THE CAPA.
3. TWBDS =TANK WATER BOTTOM DRAIN SYSTEM PERIODICALLY TANK WATER BOTTOM IS DRAINED TO THE FACILITY WASTEWATER TREATMENT PLANT UNDER THE SUPERVISION OF THE OPERATOR IN RESPONSIBLE CHARGE.
4. DATA PROVIDED FOR NORTH CAROLINA PORTS AUTHORITY PROPERTY WELLS ARE BASED ON CATLIN FIELD MEASUREMENTS.
N
100 0 100
SCALE IN FEET
NORTH CAROLINA STATE PORTS AUTHORITY PROPERTY
ASPHALT
GRASS
ESTIMATED LOCATION OF ABANDONED PARAXYLENE LINES
ASSUMED RADIUS OF INFLUENCE (TYP.)
10' EASEMENT
DEEP SPARGE WELL (TYP.)
SPARGE HEADER
SHALLOW SPARGE WELL (TYP.)
AIR COMPRESSOR BUILDING
OFFICE
PARKING
BOILER HOUSE
NORTH TRUCK LOADING RACK
ABANDONED AIRLINE
3" RECOVERY WELL FORCE MAIN
4" STORM DRAIN FORCE MAIN
4" TANK DRAIN FORCE MAIN
3" RECOVERY WELL FORCE MAIN (ABANDONED)
2" RECOVERY WELL FORCE MAIN (ABANDONED)
TWBDS 4" TANK DRAIN FORCE MAIN
FROM TANK 901
SOIL VAPOR EXTRACTION SYSTEM
UNIT
SUBSURFACE GALLERY
TANK 801 T.D.I. #801
TANK 601 T.D.I. #601
TANK 301 T.D.I. #301
TANK 401 T.D.I. #401
TANK 501 T.D.I. #501
TANK 402 T.D.I. #402
LIFT STATION #17
NC PORTS RAILWAY COMMISSION RAILWAY
FHR RAILROAD
RIVER ROAD
TBM 9 24.81'
4" SOUTH DOCK FORCE MAIN
TWO FORCE MAINS THROUGH EXISTING 10" PIPE UNDER ROAD
4" TANK DRAIN FORCE MAIN
MW–5
MW–1
MW–2
MW–3
MW–4
MW–6
MW–7
MW–8
MW–9
MW–10
MW–11
MW–12
MW–13
MW–14
MW–15
MW–16
MW–17
MW–18
MW–19
MW–20
MW–28
MW–30
MW–31
MW–32
MW–33
303TW–1
303TW–2
303TW–3
303TW–4
TMW–1
TMW–2
KRW–3
KRW–4
KRW–5
KRW–6
KRW–7
KRW–8
RW–2
S1
S2
S3
SD–1
CB
LP
MH
SS
F. BOX
15" SD
12"
W
CATLIN
ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA
PROJECT
FLINT HILLS RESOURCES, LP
NORTH TERMINAL
RIVER ROAD
WILMINGTON, N.C.
TITLE
DISSOLVED OXYGEN LEVELS OF SELECTED MONITORING WELLS AS OF AUGUST 1, 2003
FIGURE
7
JOB NO. 201125–03
DATE: OCT 2003
SCALE: 1"= 100'
DRAWN BY: WHW
CHECKED BY: JKB
201125–03OCT–03–07



WELL I.D.	M/P-XYLENES ug/L	DATE SAMPLED
CATLIN DATA		
MW-1	<1	8/20/03
MW-3	96,000	8/19/03
MW-5	630	8/20/03
MW-7	2,200,000	8/20/03
MW-8	16,000	8/20/03
MW-9	<1	8/20/03
MW-11	110,000	8/20/03
MW-12	17,000	8/20/03
MW-13	7,900	8/19/03
MW-14	140,000	8/19/03
MW-15	76,000	8/19/03
MW-16	30,000	8/19/03
MW-17	3.7	8/19/03
MW-18	110	8/19/03
MW-19	9,700	8/19/03
MW-20	2,600	8/19/03
MW-28	<1	8/20/03
MW-32	1,700	8/19/03
MW-33	22,000	8/19/03
101	3,900	8/19/03
102	5.3	8/19/03
106	180,000	8/19/03
107	160,000	8/19/03
108	97,000	8/19/03
113	1.6	8/19/03
117	7,100	8/19/03
119	<100	8/19/03
KRW-3	93,000	8/19/03
KRW-4	15,000	8/19/03
KRW-5	210,000	8/19/03
KRW-6	72,000	8/19/03
KRW-7	21,000	8/19/03
KRW-8	100,000	8/19/03
CATLIN TEMPORARY WELLS		
303TW-1	480	3/28/03
303TW-2	1	3/28/03
303TW-3	2,200	3/28/03
303TW-4	31,000	3/28/03

NOTES:

1. ALL WELL LOCATIONS AND ASSOCIATED PIPING SCHEMATICS ILLUSTRATED ARE APPROXIMATE, BASED ON FIELD MEASUREMENTS.
2. KRW-7 AND KRW-8 WERE INSTALLED AFTER SUBMITTAL OF THE CAPA.
3. TWBDS =TANK WATER BOTTOM DRAIN SYSTEM PERIODICALLY TANK WATER BOTTOM IS DRAINED TO THE FACILITY WASTEWATER TREATMENT PLANT UNDER THE SUPERVISION OF THE OPERATOR IN RESPONSIBLE CHARGE.
4. ** TEMPORARY WELLS 303TW-1 THROUGH 303TW-4 WERE ABANDONED 3/28/03
5. RESULTS FOR KRW-3 THROUGH KRW-6 WERE NOT CONSIDERED IN DEVELOPMENT OF CONTOURS.

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

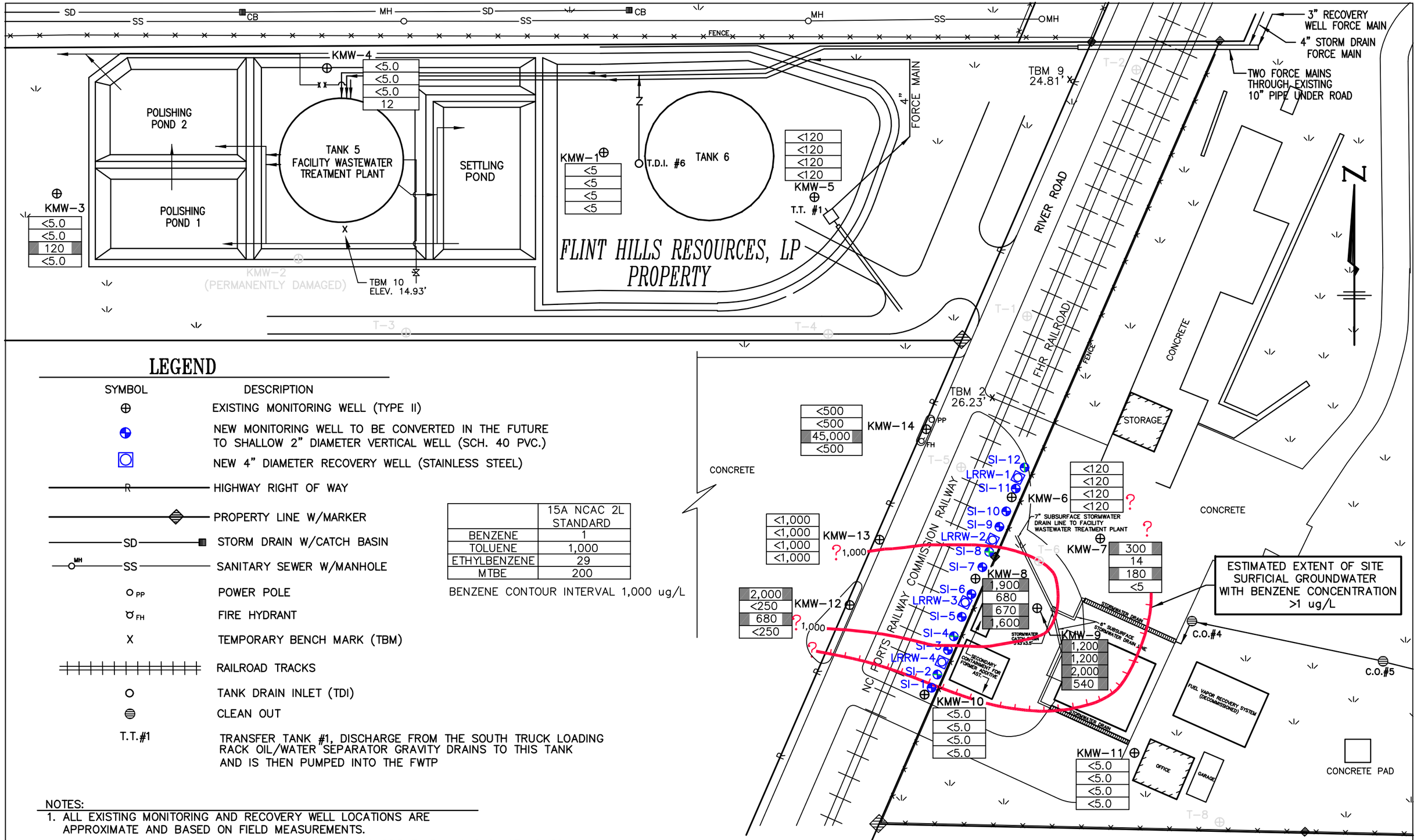
PROJECT: FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.

TITLE: SURFICIAL GROUNDWATER M/P XYLENE CONTOURS AT PARAXYLENE FACILITY AS OF AUGUST 2003

FIGURE 8

JOB NO. 201125-03 | DATE: OCT 2003 | SCALE: 1"= 100' | DRAWN BY: WHW | CHECKED BY: JKB

201125-03-OCT03-08



LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING MONITORING WELL (TYPE II)
	NEW MONITORING WELL TO BE CONVERTED IN THE FUTURE TO SHALLOW 2" DIAMETER VERTICAL WELL (SCH. 40 PVC.)
	NEW 4" DIAMETER RECOVERY WELL (STAINLESS STEEL)
R	HIGHWAY RIGHT OF WAY
	PROPERTY LINE W/MARKER
SD	STORM DRAIN W/CATCH BASIN
MH SS	SANITARY SEWER W/MANHOLE
PP	POWER POLE
FH	FIRE HYDRANT
X	TEMPORARY BENCH MARK (TBM)
	RAILROAD TRACKS
	TANK DRAIN INLET (TDI)
	CLEAN OUT
T.T.#1	TRANSFER TANK #1, DISCHARGE FROM THE SOUTH TRUCK LOADING RACK OIL/WATER SEPARATOR GRAVITY DRAINS TO THIS TANK AND IS THEN PUMPED INTO THE FWTP

	15A NCAC 2L STANDARD
BENZENE	1
TOLUENE	1,000
ETHYLBENZENE	29
MTBE	200

BENZENE CONTOUR INTERVAL 1,000 ug/L

NOTES:

1. ALL EXISTING MONITORING AND RECOVERY WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. SHADED DATA INDICATES CONCENTRATION IS ABOVE CURRENT 15A NCAC 2L STANDARD.
3. SI-# AND LRRW-# WELLS WERE NOT SAMPLED.
4. TEMPORARY WELLS T-1 THROUGH T-6 AND T-8 WERE ABANDONED IN AUGUST OF 2001.

60 30 0 60

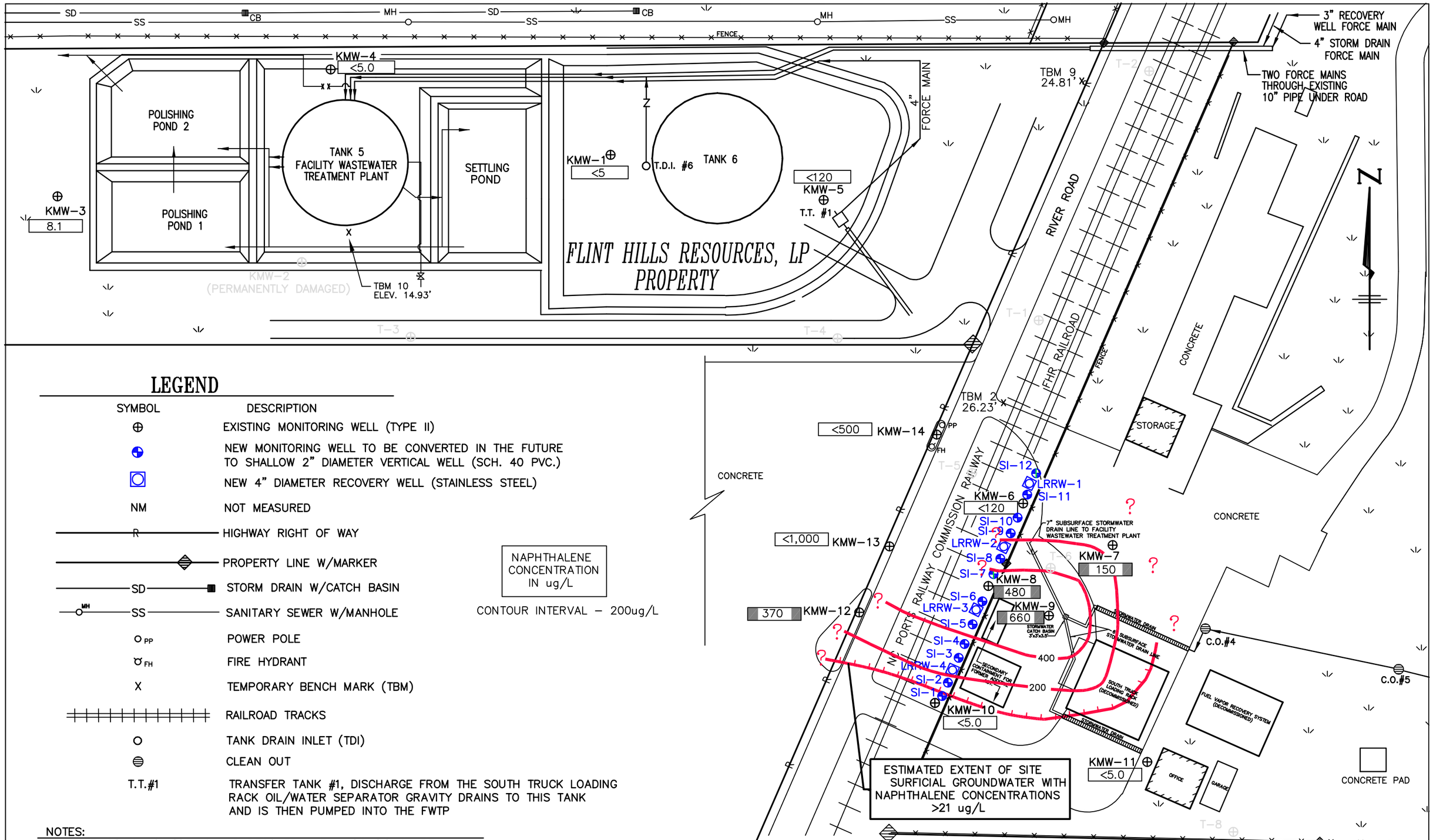
SCALE IN FEET

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	SURFICIAL GROUNDWATER BTE AND MTBE DATA AT LOADING RACK AREA AS OF SEPTEMBER 2003	9

JOB NO. 201125-03 | DATE: OCT 2003 | SCALE: 1"=60' | DRAWN BY: WHW | CHECKED BY: JKB

201125-03-OCT03-09



LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING MONITORING WELL (TYPE II)
⊕	NEW MONITORING WELL TO BE CONVERTED IN THE FUTURE TO SHALLOW 2" DIAMETER VERTICAL WELL (SCH. 40 PVC.)
◯	NEW 4" DIAMETER RECOVERY WELL (STAINLESS STEEL)
NM	NOT MEASURED
R	HIGHWAY RIGHT OF WAY
	PROPERTY LINE W/MARKER
SD	STORM DRAIN W/CATCH BASIN
MH SS	SANITARY SEWER W/MANHOLE
PP	POWER POLE
FH	FIRE HYDRANT
X	TEMPORARY BENCH MARK (TBM)
	RAILROAD TRACKS
O	TANK DRAIN INLET (TDI)
	CLEAN OUT
T.T.#1	TRANSFER TANK #1, DISCHARGE FROM THE SOUTH TRUCK LOADING RACK OIL/WATER SEPARATOR GRAVITY DRAINS TO THIS TANK AND IS THEN PUMPED INTO THE FWTP

NAPHTHALENE CONCENTRATION IN ug/L

CONTOUR INTERVAL – 200ug/L

NOTES:

1. ALL EXISTING MONITORING AND RECOVERY WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. SI-1-# AND LRRW-# WELLS WERE NOT SAMPLED.
3. TEMPORARY WELLS T-1 THROUGH T-6 AND T-8 WERE ABANDONED IN AUGUST OF 2001.

60 30 0 60

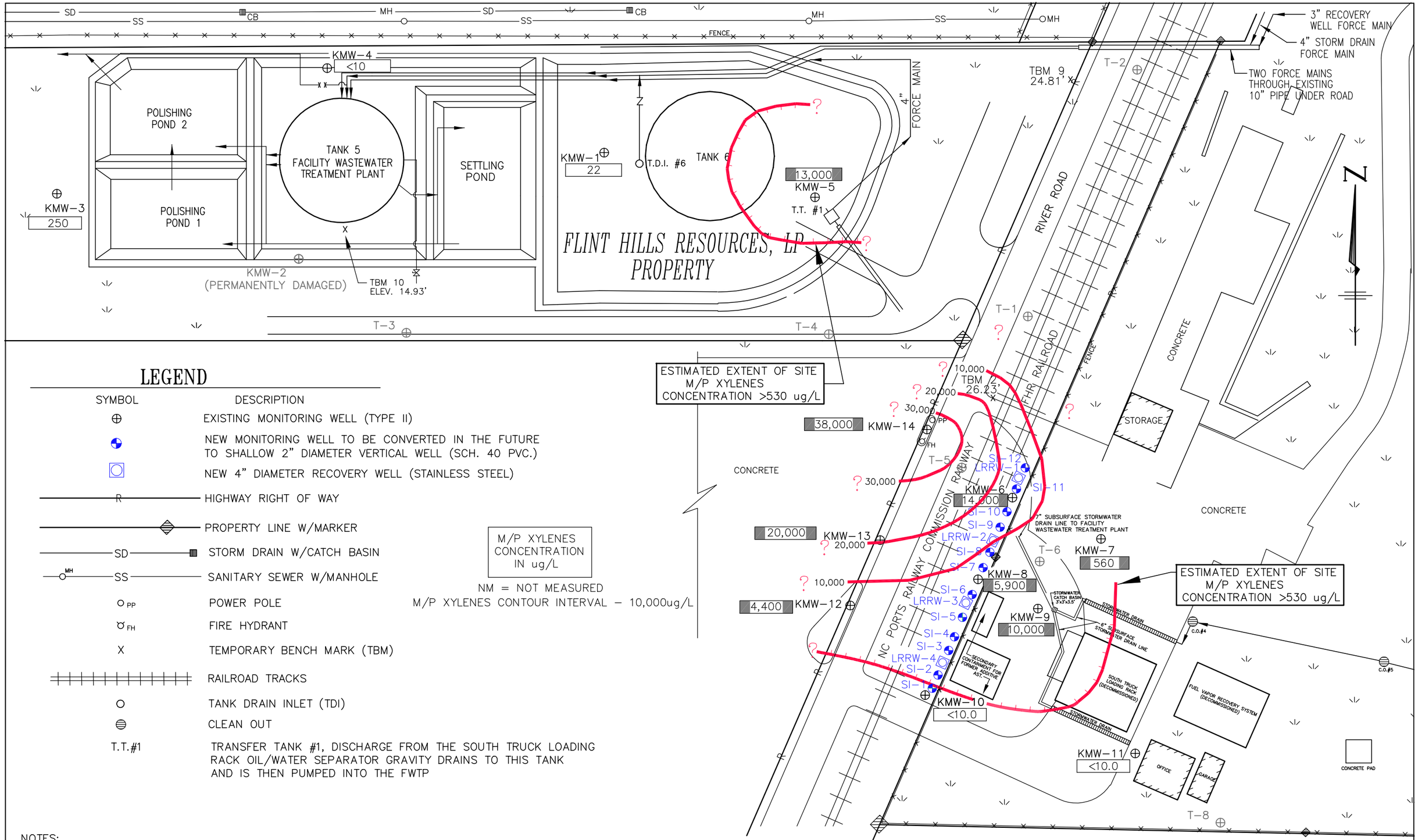
SCALE IN FEET

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	SURFICIAL GROUNDWATER NAPHTHALENE DATA AT LOADING RACK AREA AS OF SEPTEMBER 2003	10

JOB NO. 201125-03 | DATE: OCT 2003 | SCALE: 1"=60' | DRAWN BY: WHW | CHECKED BY: JKB

201125-03-OCT03-10



LEGEND

SYMBOL	DESCRIPTION
⊕	EXISTING MONITORING WELL (TYPE II)
◕	NEW MONITORING WELL TO BE CONVERTED IN THE FUTURE TO SHALLOW 2" DIAMETER VERTICAL WELL (SCH. 40 PVC.)
◯	NEW 4" DIAMETER RECOVERY WELL (STAINLESS STEEL)
R	HIGHWAY RIGHT OF WAY
	PROPERTY LINE W/MARKER
SD	STORM DRAIN W/CATCH BASIN
MH SS	SANITARY SEWER W/MANHOLE
PP	POWER POLE
FH	FIRE HYDRANT
X	TEMPORARY BENCH MARK (TBM)
	RAILROAD TRACKS
○	TANK DRAIN INLET (TDI)
⊜	CLEAN OUT
T.T.#1	TRANSFER TANK #1, DISCHARGE FROM THE SOUTH TRUCK LOADING RACK OIL/WATER SEPARATOR GRAVITY DRAINS TO THIS TANK AND IS THEN PUMPED INTO THE FWTP

M/P XYLENES CONCENTRATION IN ug/L

NM = NOT MEASURED

M/P XYLENES CONTOUR INTERVAL – 10,000ug/L

NOTES:

1. ALL EXISTING MONITORING AND RECOVERY WELL LOCATIONS ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS.
2. SI-# AND LRRW-# WELLS WERE NOT SAMPLED.
3. TEMPORARY WELLS T-1 THROUGH T-6 AND T-8 WERE ABANDONED IN AUGUST OF 2001.

60 30 0 60

SCALE IN FEET

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
FLINT HILLS RESOURCES, LP NORTH TERMINAL RIVER ROAD WILMINGTON, N.C.	SURFICIAL GROUNDWATER M/P XYLENES DATA AT LOADING RACK AREA AS OF SEPTEMBER 2003	11
JOB NO. 201125-03 DATE: OCT 2003	SCALE: 1"=60' DRAWN BY: WHW CHECKED BY: JKB	

201125-03-OCT03-11

APPENDIX A

LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS

Pace Analytical®
www.pacelabs.com

FILE COPY

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

September 04, 2003

Mr. Steve Tyler
Catlin Engineers & Scientist
220 Old Dairy Road
P.O. Box 10279
Wilmington, NC 28405

RE: Lab Project Number: 9249652
Client Project ID: FHR North-PX

Dear Mr. Tyler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC Environmental	99030
FL NELAP	E87648

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9249652
Client Project ID: FHR North-PX

Lab Sample No: 923279848
Client Sample ID: 108

Project Sample Number: 9249652-001
Matrix: Water

Date Collected: 08/19/03 11:15
Date Received: 08/26/03 09:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	97000	ug/l	5000	5000	08/31/03 05:36	STC			
1-Chloro-3-fluorobenzene (S)	93	%		1.0	08/31/03 05:36	STC	625-98-9		

Date: 09/04/03

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC Environmental	99030
FL NELAP	E87648

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9249652
Client Project ID: FHR North-PX

Lab Sample No: 923279855
Client Sample ID: KRW-7

Project Sample Number: 9249652-002
Matrix: Water

Date Collected: 08/21/03 14:20
Date Received: 08/26/03 09:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	21000	ug/l	250	250	09/03/03 02:57	PPM			
1-Chloro-3-fluorobenzene (S)	99	%		1.0	09/03/03 02:57	PPM	625-98-9		

Date: 09/04/03

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC Environmental	99030
FL NELAP	E87648

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9249652
Client Project ID: FHR North-PX

Lab Sample No: 923279863 | Project Sample Number: 9249652-003 | Date Collected: 08/21/03 15:20
Client Sample ID: KRW-8 | Matrix: Water | Date Received: 08/26/03 09:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	100000	ug/l	1000	1000	09/03/03 03:39	PPM			
1-Chloro-3-fluorobenzene (S)	99	%		1.0	09/03/03 03:39	PPM	625-98-9		

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9249652
Client Project ID: FHR North-PX

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry Analyses were performed at our Pace Asheville laboratory and Organic and Metals testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC Environmental	99030
FL NELAP	E87648

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 9249652
Client Project ID: FHR North-PX

QC Batch: 80624 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923279848

METHOD BLANK: 923292189
Associated Lab Samples: 923279848

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	93		

LABORATORY CONTROL SAMPLE: 923292197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	34.21	86	
1-Chloro-3-fluorobenzene (S)				92	

MATRIX SPIKE: 923292205

Parameter	Units	923273171 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
m&p-Xylene	ug/l	0	40.00	32.07	80	
1-Chloro-3-fluorobenzene (S)					93	

SAMPLE DUPLICATE: 923292213

Parameter	Units	923273221 Result	DUP Result	RPD	Footnotes
m&p-Xylene	ug/l	16000	16000	4	
1-Chloro-3-fluorobenzene (S)	%	93	93		

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QUALITY CONTROL DATA

Lab Project Number: 9249652
Client Project ID: FHR North-PX

QC Batch: 80769 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923279855 923279863

METHOD BLANK: 923297253
Associated Lab Samples: 923279855 923279863

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	97		

LABORATORY CONTROL SAMPLE: 923297261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	37.04	93	
1-Chloro-3-fluorobenzene (S)				94	

MATRIX SPIKE: 923297279

Parameter	Units	923279699 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
m&p-Xylene	ug/l	0	40.00	36.40	91	
1-Chloro-3-fluorobenzene (S)					97	

MATRIX SPIKE: 923297295

Parameter	Units	923293096 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
m&p-Xylene	ug/l	0	40.00	37.59	94	
1-Chloro-3-fluorobenzene (S)					98	

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QUALITY CONTROL DATA

Lab Project Number: 9249652
Client Project ID: FHR North-PX

SAMPLE DUPLICATE: 923297287

Parameter	Units	923297105 Result	DUP Result	RPD	Footnotes
m&p-Xylene	ug/l	ND	ND	NC	
1-Chloro-3-fluorobenzene (S)	%	96	98		

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Lab Project Number: 9249652
Client Project ID: FHR North-PX

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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4916 32

PACE [redacted] LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE #

[redacted]

REPORT TO: Name FRANK VAN RYN
Address *SAME AS LEFT

BILL TO: Name FRANK VAN RYN
Address *SAME AS LEFT

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 6-9 Days ☒ Standard

Samples received after 15:00 will be processed the next business day.
Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

Client REISS REMEDIATION INC.
Physical Address 4111 EAST 37 ST. NO.
WICHITA, KS 67201-2256
Phone 316-828-2146 Fax 316-828-4034
P.O.#/Billing Reference
Project Name FHR- NORTH - PX

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?		✓	
Received ON WET ICE? Temp 5.4	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

State Certification
Requested FL ____ NC ____ SC ____ Other ____ NA ____
Water Chlorinated Yes ____ No ____ NA ____
Sample Iced Upon Collection Yes ____ No ____
CMUD ____ NPDES ____ OTHER ____

PRESS DOWN FIRMLY - 3 COPIES

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	M+P XYLENES PER EPA 602						REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
108 *	19AUG03	1115	WT	G	3	40ml	HCL			32798448				*		
KRW-7	21AUG03	1420	↓	↓	↓	↓	↓			↓	855					
KRW-8	21AUG03	1520									863			PROJECT MGR: SHERRI STABEL		
														PROJECT NAME: FHR-NORTH - PX		
														COPY TO: STEVE TYLER		
* one vial broken in shipment						8-26	SHS									

Sampler's Signature [signature] Sampled By (Print Name) DIMITRI TALBERT Affiliation CATLIN

Relinquished By: (Signature) [signature]
Relinquished By: (Signature)
Relinquished By: (Signature)
Method of Shipment: ☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Other:

Received By: (Signature)
Received By: (Signature) [signature]
Received For Prism Laboratories By:

Date	Military/Hours
8/25/03	
8/21-03	0940
Date	

Log-In Group No.

Additional Comments:
* THIS 108 REPLACES THE 108 SENT 8/21 WHICH WAS 106 MISLABELED AS 108.

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC
☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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September 04, 2003

Mr. Steve Tyler
Catlin Engineers & Scientist
220 Old Dairy Road
P.O. Box 10279
Wilmington, NC 28405

RE: Lab Project Number: 9249553
Client Project ID: FHR North-PX

Dear Mr. Tyler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273098 | Project Sample Number: 9249553-001 | Date Collected: 08/19/03 10:35
Client Sample ID: 101 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	3900	ug/l	50.	50.0	08/28/03 03:25	STC			
1-Chloro-3-fluorobenzene (S)	99	%		1.0	08/28/03 03:25	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273114 | Project Sample Number: 9249553-002 | Date Collected: 08/19/03 11:00
Client Sample ID: 102 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	5.3	ug/l	1.0	1.0	08/28/03 04:06	STC			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/28/03 04:06	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273122 | Project Sample Number: 9249553-003 | Date Collected: 08/19/03 11:40
Client Sample ID: 107 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	160000	ug/l	5000	5000	08/28/03 04:47	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/28/03 04:47	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273205 | Project Sample Number: 9249553-011 | Date Collected: 08/20/03 13:10
Client Sample ID: MW-7 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	2200000	ug/l	20000	20000	08/31/03 08:19	STC			
1-Chloro-3-fluorobenzene (S)	93	%		1.0	08/31/03 08:19	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273130 | Project Sample Number: 9249553-004 | Date Collected: 08/19/03 14:00
Client Sample ID: 113 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	1.6	ug/l	1.0	1.0	08/28/03 05:28	STC			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/28/03 05:28	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273148 | Project Sample Number: 9249553-005 | Date Collected: 08/19/03 10:55
Client Sample ID: 106 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	180000	ug/l	5000	5000	08/28/03 06:08	STC			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/28/03 06:08	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273155 | Project Sample Number: 9249553-006 | Date Collected: 08/19/03 14:10
Client Sample ID: 117 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	7100	ug/l	100	100	08/28/03 21:18	STC			
1-Chloro-3-fluorobenzene (S)	95	%		1.0	08/28/03 21:18	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273163 | Project Sample Number: 9249553-007 | Date Collected: 08/19/03 11:40
Client Sample ID: 119 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	ND	ug/l	100	100	08/28/03 07:32	STC		1	
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/28/03 07:32	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273171 | Project Sample Number: 9249553-008 | Date Collected: 08/20/03 11:45
Client Sample ID: MW-1 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	ND	ug/l	1.0	1.0	08/31/03 06:16	STC			
1-Chloro-3-fluorobenzene (S)	91	%		1.0	08/31/03 06:16	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273189 | Project Sample Number: 9249553-009 | Date Collected: 08/19/03 13:30
Client Sample ID: MW-3 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	96000	ug/l	5000	5000	08/28/03 21:59	STC			
1-Chloro-3-fluorobenzene (S)	96	%		1.0	08/28/03 21:59	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273197 | Project Sample Number: 9249553-010 | Date Collected: 08/20/03 12:00
Client Sample ID: MW-5 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	630	ug/l	20.	20.0	08/31/03 07:38	STC			
1-Chloro-3-fluorobenzene (S)	95	%		1.0	08/31/03 07:38	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273221 | Project Sample Number: 9249553-012 | Date Collected: 08/20/03 11:20
Client Sample ID: MW-8 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	16000	ug/l	200	200	08/31/03 09:00	STC			
1-Chloro-3-fluorobenzene (S)	93	%		1.0	08/31/03 09:00	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273239 | Project Sample Number: 9249553-013 | Date Collected: 08/20/03 11:00
Client Sample ID: MW-9 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	ND	ug/l	1.0	1.0	08/28/03 19:18	PPM			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/28/03 19:18	PPM	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273247 | Project Sample Number: 9249553-014 | Date Collected: 08/20/03 12:50
Client Sample ID: MW-11 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	110000	ug/l	2000	2000	08/28/03 19:59	PPM			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/28/03 19:59	PPM	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273254 | Project Sample Number: 9249553-015 | Date Collected: 08/20/03 11:50
Client Sample ID: MW-12 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	17000	ug/l	1000	1000	08/28/03 20:40	PPM			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/28/03 20:40	PPM	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273262 | Project Sample Number: 9249553-016 | Date Collected: 08/19/03 12:45
Client Sample ID: MW-13 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	7900	ug/l	100	100	08/28/03 22:40	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/28/03 22:40	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273270 | Project Sample Number: 9249553-017 | Date Collected: 08/19/03 13:45
Client Sample ID: MW-14 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	140000	ug/l	5000	5000	08/31/03	STC			
1-Chloro-3-fluorobenzene (S)	100	%		1.0	08/29/03 00:02	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273288 | Project Sample Number: 9249553-018 | Date Collected: 08/19/03 13:00
Client Sample ID: MW-15 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	76000	ug/l	2000	2000	08/31/03	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/29/03 00:43	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273296 | Project Sample Number: 9249553-019 | Date Collected: 08/19/03 16:10
Client Sample ID: MW-16 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	30000	ug/l	500	500	08/29/03 01:24	STC			
1-Chloro-3-fluorobenzene (S)	96	%		1.0	08/29/03 01:24	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273304 | Project Sample Number: 9249553-020 | Date Collected: 08/19/03 16:20
Client Sample ID: MW-17 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	3.7	ug/l	1.0	1.0	08/29/03 02:05	STC			
1-Chloro-3-fluorobenzene (S)	96	%		1.0	08/29/03 02:05	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273312 | Project Sample Number: 9249553-021 | Date Collected: 08/19/03 15:55
Client Sample ID: MW-18 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	110	ug/l	2.0	2.0	08/31/03 02:11	STC			
1-Chloro-3-fluorobenzene (S)	94	%		1.0	08/31/03 02:11	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273320 | Project Sample Number: 9249553-022 | Date Collected: 08/19/03 15:40
Client Sample ID: MW-19 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	9700	ug/l	500	500	08/29/03 03:27	STC			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/29/03 03:27	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273338 | Project Sample Number: 9249553-023 | Date Collected: 08/19/03 10:20
Client Sample ID: MW-20 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	2600	ug/l	50.	50.0	08/29/03 04:08	STC			
1-Chloro-3-fluorobenzene (S)	97	%		1.0	08/29/03 04:08	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273346 | Project Sample Number: 9249553-024 | Date Collected: 08/20/03 11:05
Client Sample ID: MW-28 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	ND	ug/l	1.0	1.0	08/28/03 21:22	PPM			
1-Chloro-3-fluorobenzene (S)	96	%		1.0	08/28/03 21:22	PPM	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273361 | Project Sample Number: 9249553-025 | Date Collected: 08/19/03 13:40
Client Sample ID: MW-32 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	1700	ug/l	50.	50.0	08/31/03 02:52	STC			
1-Chloro-3-fluorobenzene (S)	94	%		1.0	08/31/03 02:52	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273379 | Project Sample Number: 9249553-026 | Date Collected: 08/19/03 13:25
Client Sample ID: MW-33 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	22000	ug/l	500	500	08/29/03 06:33	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/29/03 06:33	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273387 | Project Sample Number: 9249553-027 | Date Collected: 08/19/03 11:25
Client Sample ID: KRW-3 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	93000	ug/l	1000	1000	08/31/03	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/29/03 07:15	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273395 | Project Sample Number: 9249553-028 | Date Collected: 08/19/03 11:15
Client Sample ID: KRW-4 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	15000	ug/l	200	200	08/31/03	STC			
1-Chloro-3-fluorobenzene (S)	98	%		1.0	08/29/03 08:45	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273411 | Project Sample Number: 9249553-029 | Date Collected: 08/19/03 14:55
Client Sample ID: KRW-5 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	210000	ug/l	20000	20000	08/29/03 09:27	STC			
1-Chloro-3-fluorobenzene (S)	104	%		1.0	08/29/03 09:27	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

Lab Sample No: 923273429 | Project Sample Number: 9249553-030 | Date Collected: 08/19/03 12:00
Client Sample ID: KRW-6 | Matrix: Water | Date Received: 08/22/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Purgeable Aromatics	Method: EPA 602								
m&p-Xylene	72000	ug/l	5000	5000	08/31/03 04:55	STC			
1-Chloro-3-fluorobenzene (S)	93	%		1.0	08/31/03 04:55	STC	625-98-9		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry Analyses were performed at our Pace Asheville laboratory and Organic and Metals testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

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QUALITY CONTROL DATA

Lab Project Number: 9249553
Client Project ID: FHR North-PX

QC Batch: 80464 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923273098 923273114 923273122 923273130 923273148 923273155 923273163

METHOD BLANK: 923282990
Associated Lab Samples: 923273098 923273114 923273122 923273130 923273148 923273155 923273163

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	98		

LABORATORY CONTROL SAMPLE: 923283006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	41.49	104	
1-Chloro-3-fluorobenzene (S)				98	

SAMPLE DUPLICATE: 923283055

Parameter	Units	923273163 Result	DUP Result	RPD	Footnotes
m&p-Xylene	ug/l	ND	ND	NC	1
1-Chloro-3-fluorobenzene (S)	%	97	97		

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QUALITY CONTROL DATA

Lab Project Number: 9249553
Client Project ID: FHR North-PX

QC Batch: 80547 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923273189, 923273262, 923273270, 923273288, 923273296, 923273304, 923273312, 923273320, 923273338, 923273361, 923273379, 923273387, 923273395, 923273411

METHOD BLANK: 923287494
Associated Lab Samples: 923273189, 923273262, 923273270, 923273288, 923273296, 923273304, 923273312, 923273320, 923273338, 923273361, 923273379, 923273387, 923273395, 923273411

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	94		

LABORATORY CONTROL SAMPLE: 923287502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	42.04	105	
1-Chloro-3-fluorobenzene (S)				96	

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Charlotte Certification IDs
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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Phone: 704.875.9092
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QUALITY CONTROL DATA

Lab Project Number: 9249553
Client Project ID: FHR North-PX

QC Batch: 80571 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923273239 923273247 923273254 923273346

METHOD BLANK: 923289268
Associated Lab Samples: 923273239 923273247 923273254 923273346

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	98		

LABORATORY CONTROL SAMPLE: 923289276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	40.81	102	
1-Chloro-3-fluorobenzene (S)				97	

SAMPLE DUPLICATE: 923289284

Parameter	Units	923286470 Result	DUP Result	RPD	Footnotes
m&p-Xylene	ug/l	ND	ND	NC	
1-Chloro-3-fluorobenzene (S)	%	98	98		

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QUALITY CONTROL DATA

Lab Project Number: 9249553
Client Project ID: FHR North-PX

QC Batch: 80624 — Analysis Method: EPA 602
QC Batch Method: EPA 602 — Analysis Description: Purgeable Aromatics
Associated Lab Samples: 923273171 923273197 923273205 923273221 923273429

METHOD BLANK: 923292189
Associated Lab Samples: 923273171 923273197 923273205 923273221 923273429

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	93		

LABORATORY CONTROL SAMPLE: 923292197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
m&p-Xylene	ug/l	40.00	34.21	86	
1-Chloro-3-fluorobenzene (S)				92	

MATRIX SPIKE: 923292205

Parameter	Units	923273171 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
m&p-Xylene	ug/l	0	40.00	32.07	80	
1-Chloro-3-fluorobenzene (S)					93	

SAMPLE DUPLICATE: 923292213

Parameter	Units	923273221 Result	DUP Result	RPD	Footnotes
m&p-Xylene	ug/l	16000	16000	4	
1-Chloro-3-fluorobenzene (S)	%	93	93		

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Lab Project Number: 9249553
Client Project ID: FHR North-PX

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

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Charlotte Certification IDs

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SC	99006
FL NELAP	E87627

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Page: 1 of 3

Required Client Information: **Section A**

Company: REISS REN. INC
Address: 4111 EAST 37th STR. NO.
WICHITA KS 67201-2256
Phone: 316-828-2146
Fax: 316-828-4031

Required Client Information: **Section B**

Report To: FRANK VAN RYN
Copy To: STEVE TYLER
Invoice To: FRANK VAN RYN
P.O.:
Project Name: FHR NORTH -PX
Project Number:

Client Information (Check quote/contract):
Requested Due Date: 9-5-03
*TAT: STAN

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager: SHERRI STABEL
Project #: 9249553
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: MIP XYLENES, 8/12 EPA 602

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	MIP XYLENES	8/12 EPA 602	Remarks / Lab ID
1	101	WT	8-19-03	1035					✓					✓		923273098
2	102			1100					✓					✓		923273114
3	107			1140					✓					✓		923273122
4	113			1400					✓					✓		923273130
5	10~~3~~0 SHS REF STAVE			1055					✓					✓		923273148
6	117			1410					✓					✓		923273155
7	119			1140					✓					✓		923273163
8	MW-1		8-20-03	1145					✓					✓		923273171
9	MW-3		8-19-03	1330					✓					✓		923273189
10	MW-5		8-20-03	1200					✓					✓		923273217
11	MW-7		"	1310					✓					✓		923273205
12	MW-8		"	1120					✓					✓		923273221

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	STEVE TYLER / CATALYST	8/21/03	1500	Steve Benoza	8-22-03	10:00

SAMPLE CONDITION

Temp in °C	7.2°
Received on Ice	(Y)/N
Sealed Cooler	Y/(N)
Samples Intact	(Y)/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEVE TYLER / DIMITRI TALBERT
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 8/21/03

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Page: 2 of 3

Required Client Information: **Section A**

Company: REISS REMEDIATION INC.
Address: 4111 EAST 37TH STR. NO.
WICHITA KS 67201-2256
Phone: 316-828-2116
Fax: 316-828-4034

Required Client Information: **Section B**

Report To: FRANK VAN RYN
Copy To: STEVE TYLER
Invoice To: FRANK VAN RYN
P.O.:
Project Name: FHR NORTH - PX
Project Number:

Client Information (Check quote/contract):
Requested Due Date: 9-5-03
*TAT: STAN

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager: SHERRI STABEL
Project #: 9249553
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: M/P XYLENES; HCL EPA 602

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	M/P XYLENES	HCL EPA 602	Remarks / Lab ID
1	MW-9	WT	8-20-03	1100					✓					✓		923273239
2	MW-11		↓	1250					✓					✓		923273247
3	MW-12			1250					✓					✓		923273254
4	MW-13		8-19-03	1245					✓					✓		923273262
5	MW-14			1345					✓					✓		923273270
6	MW-15			1300					✓					✓		923273288
7	MW-16			1610					✓					✓		923273296
8	MW-17			1620					✓					✓		923273304
9	MW-18			1555					✓					✓		923273312
10	MW-19			1540					✓					✓		923273320
11	MW-20			1520					✓					✓		923273338
12	MW-28		8-20-03	1105					✓					✓		923273346

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	STEVE TYLER / CATLIN	8/21/03	1500	Steve Beaver	8-22-03	10:01

SAMPLE CONDITION

Temp in °C	22
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEVE TYLER / DIMITRI TALBERT
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 8/21/03

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Page: 3 of 3

Required Client Information: **Section A**

Company: REISS REMEDIATION INC.
Address: 4111 EAST 37 STR. NO.
WICHITA KS 67201-2256
Phone: 316-828-2146
Fax: 316-828-4034

Required Client Information: **Section B**

Report To: FRANK VAN RYN
Copy To: STEVE TYLER
Invoice To: FRANK VAN RYN
P.O.:
Project Name: FHR NORTH - PX
Project Number:

Client Information (Check quote/contract):
Requested Due Date: 9-5-03
*TAT: STAN.

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager: SHERRI STABEL
Project #: 9249553
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: M/P XYLENES PER EPA 602

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	M/P XYLENES PER EPA 602	Remarks / Lab ID
1	MW-32	WT.	8-19-03	1340					✓					✓	923273361
2	MW-33			1325					✓					✓	923273379
3	KRW-3			1125					✓					✓	923273387
4	KRW-4			1115					✓					✓	923273395
5	KRW-5			1455					✓					✓	923273411
6	KRW-6			1200					✓					✓	923273471
7															
8															
9															
10															
11															
12															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	STEVE TYLER/CATUM	8/21-03	1500	Steve Berne	8-21-03	18:00

SAMPLE CONDITION

Temp in °C	7.2
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEVE TYLER / DIMITRI TALBERT
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 8-21-03

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September 30, 2003

Mr. Steve Tyler
Catlin Engineers & Scientist
220 Old Dairy Road
P.O. Box 10279
Wilmington, NC 28405

RE: Lab Project Number: 9250860
Client Project ID: FHR North

Dear Mr. Tyler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341382
Client Sample ID: KMW-6

Project Sample Number: 9250860-001
Matrix: Water

Date Collected: 09/16/03 10:00
Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	71-43-2		
Bromobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	108-86-1		
Bromochloromethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-27-4		
Bromoform	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-25-2		
Bromomethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	74-83-9		
n-Butylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	104-51-8		
sec-Butylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	135-98-8		
tert-Butylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	98-06-6		
Carbon tetrachloride	ND	ug/l	120	25.0	09/23/03 13:25	DLK	56-23-5		
Chlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	108-90-7		
Chloroethane	ND	ug/l	250	25.0	09/23/03 13:25	DLK	75-00-3		
Chloroform	ND	ug/l	120	25.0	09/23/03 13:25	DLK	67-66-3		
Chloromethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	74-87-3		
2-Chlorotoluene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	95-49-8		
4-Chlorotoluene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	120	25.0	09/23/03 13:25	DLK	106-93-4		
Dibromomethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	563-58-6		
Diisopropyl ether	ND	ug/l	120	25.0	09/23/03 13:25	DLK	108-20-3		
Ethylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	120	25.0	09/23/03 13:25	DLK	98-82-8		

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341382 | Project Sample Number: 9250860-001 | Date Collected: 09/16/03 10:00
Client Sample ID: KMW-6 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	99-87-6		
Methylene chloride	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	120	25.0	09/23/03 13:25	DLK	1634-04-4		
Naphthalene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	91-20-3		
n-Propylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	103-65-1		
Styrene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	127-18-4		
Toluene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	79-00-5		
Trichloroethene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	250	25.0	09/23/03 13:25	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	120	25.0	09/23/03 13:25	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	108-67-8		
Vinyl chloride	ND	ug/l	120	25.0	09/23/03 13:25	DLK	75-01-4		
m&p-Xylene	14000	ug/l	1000	100	09/23/03 13:25	DLK			
o-Xylene	ND	ug/l	120	25.0	09/23/03 13:25	DLK	95-47-6		
Xylene (Total)	14000	ug/l	5.0	1.0	09/23/03 13:25	DLK	1330-20-7		
Toluene-d8 (S)	99	%		1.0	09/23/03 13:25	DLK	2037-26-5		
4-Bromofluorobenzene (S)	104	%		1.0	09/23/03 13:25	DLK	460-00-4		
Dibromofluoromethane (S)	90	%		1.0	09/23/03 13:25	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	81	%		1.0	09/23/03 13:25	DLK	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341390 | Project Sample Number: 9250860-002 | Date Collected: 09/16/03 10:40
Client Sample ID: KMW-14 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	500	100	09/23/03 13:54	DLK	71-43-2		
Bromobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	108-86-1		
Bromochloromethane	ND	ug/l	500	100	09/23/03 13:54	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	500	100	09/23/03 13:54	DLK	75-27-4		
Bromoform	ND	ug/l	500	100	09/23/03 13:54	DLK	75-25-2		
Bromomethane	ND	ug/l	500	100	09/23/03 13:54	DLK	74-83-9		
n-Butylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	104-51-8		
sec-Butylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	135-98-8		
tert-Butylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	98-06-6		
Carbon tetrachloride	ND	ug/l	500	100	09/23/03 13:54	DLK	56-23-5		
Chlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	108-90-7		
Chloroethane	ND	ug/l	1000	100	09/23/03 13:54	DLK	75-00-3		
Chloroform	ND	ug/l	500	100	09/23/03 13:54	DLK	67-66-3		
Chloromethane	ND	ug/l	500	100	09/23/03 13:54	DLK	74-87-3		
2-Chlorotoluene	ND	ug/l	500	100	09/23/03 13:54	DLK	95-49-8		
4-Chlorotoluene	ND	ug/l	500	100	09/23/03 13:54	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	500	100	09/23/03 13:54	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	500	100	09/23/03 13:54	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	500	100	09/23/03 13:54	DLK	106-93-4		
Dibromomethane	ND	ug/l	500	100	09/23/03 13:54	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/l	500	100	09/23/03 13:54	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	500	100	09/23/03 13:54	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	500	100	09/23/03 13:54	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	500	100	09/23/03 13:54	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	500	100	09/23/03 13:54	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	500	100	09/23/03 13:54	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	500	100	09/23/03 13:54	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	500	100	09/23/03 13:54	DLK	563-58-6		
Diisopropyl ether	ND	ug/l	500	100	09/23/03 13:54	DLK	108-20-3		
Ethylbenzene	45000	ug/l	500	100	09/23/03 13:54	DLK	100-41-4	1	
Hexachloro-1,3-butadiene	ND	ug/l	500	100	09/23/03 13:54	DLK	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	500	100	09/23/03 13:54	DLK	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341390 | Project Sample Number: 9250860-002 | Date Collected: 09/16/03 10:40
Client Sample ID: KMW-14 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	500	100	09/23/03 13:54	DLK	99-87-6		
Methylene chloride	ND	ug/l	500	100	09/23/03 13:54	DLK	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	500	100	09/23/03 13:54	DLK	1634-04-4		
Naphthalene	ND	ug/l	500	100	09/23/03 13:54	DLK	91-20-3		
n-Propylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	103-65-1		
Styrene	ND	ug/l	500	100	09/23/03 13:54	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	500	100	09/23/03 13:54	DLK	127-18-4		
Toluene	ND	ug/l	500	100	09/23/03 13:54	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	500	100	09/23/03 13:54	DLK	79-00-5		
Trichloroethene	ND	ug/l	500	100	09/23/03 13:54	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	1000	100	09/23/03 13:54	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	500	100	09/23/03 13:54	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	500	100	09/23/03 13:54	DLK	108-67-8		
Vinyl chloride	ND	ug/l	500	100	09/23/03 13:54	DLK	75-01-4		
m&p-Xylene	38000	ug/l	5000	500	09/23/03 13:54	DLK			
o-Xylene	ND	ug/l	500	100	09/23/03 13:54	DLK	95-47-6		
Xylene (Total)	38000	ug/l	5.0	1.0	09/23/03 13:54	DLK	1330-20-7		
Toluene-d8 (S)	98	%		1.0	09/23/03 13:54	DLK	2037-26-5		
4-Bromofluorobenzene (S)	105	%		1.0	09/23/03 13:54	DLK	460-00-4		
Dibromofluoromethane (S)	94	%		1.0	09/23/03 13:54	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	83	%		1.0	09/23/03 13:54	DLK	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341408 | Project Sample Number: 9250860-003 | Date Collected: 09/16/03 10:30
Client Sample ID: KMW-13 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	71-43-2		
Bromobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	108-86-1		
Bromochloromethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-27-4		
Bromoform	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-25-2		
Bromomethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	1000	200	09/23/03 08:30	RWS	56-23-5		
Chlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	108-90-7		
Chloroethane	ND	ug/l	2000	200	09/23/03 08:30	RWS	75-00-3		
Chloroform	ND	ug/l	1000	200	09/23/03 08:30	RWS	67-66-3		
Chloromethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	1000	200	09/23/03 08:30	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	1000	200	09/23/03 08:30	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	1000	200	09/23/03 08:30	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	1000	200	09/23/03 08:30	RWS	106-93-4		
Dibromomethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	1000	200	09/23/03 08:30	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1000	200	09/23/03 08:30	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	1000	200	09/23/03 08:30	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	1000	200	09/23/03 08:30	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	1000	200	09/23/03 08:30	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	1000	200	09/23/03 08:30	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	1000	200	09/23/03 08:30	RWS	108-20-3		
Ethylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	1000	200	09/23/03 08:30	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	1000	200	09/23/03 08:30	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341408
Client Sample ID: KMW-13

Project Sample Number: 9250860-003
Matrix: Water

Date Collected: 09/16/03 10:30
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	1000	200	09/23/03 08:30	RWS	99-87-6		
Methylene chloride	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	1000	200	09/23/03 08:30	RWS	1634-04-4		
Naphthalene	ND	ug/l	1000	200	09/23/03 08:30	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	103-65-1		
Styrene	ND	ug/l	1000	200	09/23/03 08:30	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	1000	200	09/23/03 08:30	RWS	127-18-4		
Toluene	ND	ug/l	1000	200	09/23/03 08:30	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	1000	200	09/23/03 08:30	RWS	79-00-5		
Trichloroethene	ND	ug/l	1000	200	09/23/03 08:30	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	2000	200	09/23/03 08:30	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	1000	200	09/23/03 08:30	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	1000	200	09/23/03 08:30	RWS	108-67-8		
Vinyl chloride	ND	ug/l	1000	200	09/23/03 08:30	RWS	75-01-4		
m&p-Xylene	20000	ug/l	2000	200	09/23/03 08:30	RWS			
o-Xylene	ND	ug/l	1000	200	09/23/03 08:30	RWS	95-47-6		
Xylene (Total)	20000	ug/l	5.0	1.0	09/23/03 08:30	RWS	1330-20-7		
Toluene-d8 (S)	107	%		1.0	09/23/03 08:30	RWS	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	09/23/03 08:30	RWS	460-00-4		
Dibromofluoromethane (S)	94	%		1.0	09/23/03 08:30	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		1.0	09/23/03 08:30	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341416
Client Sample ID: KMW-12

Project Sample Number: 9250860-004
Matrix: Water

Date Collected: 09/16/03 10:25
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	2000	ug/l	250	50.0	09/23/03 06:31	RWS	71-43-2		
Bromobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	108-86-1		
Bromochloromethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-27-4		
Bromoform	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-25-2		
Bromomethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	250	50.0	09/23/03 06:31	RWS	56-23-5		
Chlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	108-90-7		
Chloroethane	ND	ug/l	500	50.0	09/23/03 06:31	RWS	75-00-3		
Chloroform	ND	ug/l	250	50.0	09/23/03 06:31	RWS	67-66-3		
Chloromethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	250	50.0	09/23/03 06:31	RWS	106-93-4		
Dibromomethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	250	50.0	09/23/03 06:31	RWS	108-20-3		
Ethylbenzene	680	ug/l	250	50.0	09/23/03 06:31	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	250	50.0	09/23/03 06:31	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341416 | Project Sample Number: 9250860-004 | Date Collected: 09/16/03 10:25
Client Sample ID: KMW-12 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	99-87-6		
Methylene chloride	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	250	50.0	09/23/03 06:31	RWS	1634-04-4		
Naphthalene	370	ug/l	250	50.0	09/23/03 06:31	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	103-65-1		
Styrene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	127-18-4		
Toluene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	79-00-5		
Trichloroethene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	500	50.0	09/23/03 06:31	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	250	50.0	09/23/03 06:31	RWS	96-18-4		
1,2,4-Trimethylbenzene	950	ug/l	250	50.0	09/23/03 06:31	RWS	95-63-6		
1,3,5-Trimethylbenzene	290	ug/l	250	50.0	09/23/03 06:31	RWS	108-67-8		
Vinyl chloride	ND	ug/l	250	50.0	09/23/03 06:31	RWS	75-01-4		
m&p-Xylene	4400	ug/l	500	50.0	09/23/03 06:31	RWS			
o-Xylene	ND	ug/l	250	50.0	09/23/03 06:31	RWS	95-47-6		
Xylene (Total)	4500	ug/l	5.0	1.0	09/23/03 06:31	RWS	1330-20-7		
Toluene-d8 (S)	104	%		1.0	09/23/03 06:31	RWS	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	09/23/03 06:31	RWS	460-00-4		
Dibromofluoromethane (S)	88	%		1.0	09/23/03 06:31	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		1.0	09/23/03 06:31	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341424
Client Sample ID: KMW-5

Project Sample Number: 9250860-005
Matrix: Water

Date Collected: 09/16/03 11:35
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	71-43-2		
Bromobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	108-86-1		
Bromochloromethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-27-4		
Bromoform	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-25-2		
Bromomethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	120	25.0	09/25/03 14:52	RWS	56-23-5		
Chlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	108-90-7		
Chloroethane	ND	ug/l	250	25.0	09/25/03 14:52	RWS	75-00-3		
Chloroform	ND	ug/l	120	25.0	09/25/03 14:52	RWS	67-66-3		
Chloromethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	120	25.0	09/25/03 14:52	RWS	106-93-4		
Dibromomethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	120	25.0	09/25/03 14:52	RWS	108-20-3		
Ethylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	120	25.0	09/25/03 14:52	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341424 | Project Sample Number: 9250860-005 | Date Collected: 09/16/03 11:35
Client Sample ID: KMW-5 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	99-87-6		
Methylene chloride	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	120	25.0	09/25/03 14:52	RWS	1634-04-4		
Naphthalene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	103-65-1		
Styrene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	127-18-4		
Toluene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	79-00-5		
Trichloroethene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	250	25.0	09/25/03 14:52	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	120	25.0	09/25/03 14:52	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	108-67-8		
Vinyl chloride	ND	ug/l	120	25.0	09/25/03 14:52	RWS	75-01-4		
m&p-Xylene	13000	ug/l	2000	200	09/25/03 14:52	RWS			
o-Xylene	ND	ug/l	120	25.0	09/25/03 14:52	RWS	95-47-6		
Xylene (Total)	13000	ug/l	5.0	1.0	09/25/03 14:52	RWS	1330-20-7		
Toluene-d8 (S)	100	%		1.0	09/25/03 14:52	RWS	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	09/25/03 14:52	RWS	460-00-4		
Dibromofluoromethane (S)	93	%		1.0	09/25/03 14:52	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		1.0	09/25/03 14:52	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341432
Client Sample ID: KMW-11

Project Sample Number: 9250860-006
Matrix: Water

Date Collected: 09/16/03 10:20
Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/23/03 06:14	RWS	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	108-20-3		
Ethylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	98-82-8		

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FL NELAP	E87627

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341432 | Project Sample Number: 9250860-006 | Date Collected: 09/16/03 10:20
Client Sample ID: KMW-11 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	127-18-4		
Toluene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/23/03 06:14	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	75-01-4		
m&p-Xylene	ND	ug/l	10.	1.0	09/23/03 06:14	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	95-47-6		
Xylene (Total)	ND	ug/l	5.0	1.0	09/23/03 06:14	RWS	1330-20-7		
Toluene-d8 (S)	109	%		1.0	09/23/03 06:14	RWS	2037-26-5		
4-Bromofluorobenzene (S)	94	%		1.0	09/23/03 06:14	RWS	460-00-4		
Dibromofluoromethane (S)	105	%		1.0	09/23/03 06:14	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		1.0	09/23/03 06:14	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341440
Client Sample ID: KMW-9

Project Sample Number: 9250860-007
Matrix: Water

Date Collected: 09/16/03 10:00
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	1200	ug/l	250	50.0	09/23/03 07:05	RWS	71-43-2		
Bromobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	108-86-1		
Bromochloromethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-27-4		
Bromoform	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-25-2		
Bromomethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	250	50.0	09/23/03 07:05	RWS	56-23-5		
Chlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	108-90-7		
Chloroethane	ND	ug/l	500	50.0	09/23/03 07:05	RWS	75-00-3		
Chloroform	ND	ug/l	250	50.0	09/23/03 07:05	RWS	67-66-3		
Chloromethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	250	50.0	09/23/03 07:05	RWS	106-93-4		
Dibromomethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	250	50.0	09/23/03 07:05	RWS	108-20-3		
Ethylbenzene	2000	ug/l	250	50.0	09/23/03 07:05	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	250	50.0	09/23/03 07:05	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341440
Client Sample ID: KMW-9

Project Sample Number: 9250860-007
Matrix: Water

Date Collected: 09/16/03 10:00
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	99-87-6		
Methylene chloride	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-09-2		
Methyl-tert-butyl ether	540	ug/l	250	50.0	09/23/03 07:05	RWS	1634-04-4		
Naphthalene	660	ug/l	250	50.0	09/23/03 07:05	RWS	91-20-3		
n-Propylbenzene	340	ug/l	250	50.0	09/23/03 07:05	RWS	103-65-1		
Styrene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	127-18-4		
Toluene	1200	ug/l	250	50.0	09/23/03 07:05	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	79-00-5		
Trichloroethene	ND	ug/l	250	50.0	09/23/03 07:05	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	500	50.0	09/23/03 07:05	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	250	50.0	09/23/03 07:05	RWS	96-18-4		
1,2,4-Trimethylbenzene	2700	ug/l	250	50.0	09/23/03 07:05	RWS	95-63-6		
1,3,5-Trimethylbenzene	830	ug/l	250	50.0	09/23/03 07:05	RWS	108-67-8		
Vinyl chloride	ND	ug/l	250	50.0	09/23/03 07:05	RWS	75-01-4		
m&p-Xylene	10000	ug/l	500	50.0	09/23/03 07:05	RWS			
o-Xylene	1200	ug/l	250	50.0	09/23/03 07:05	RWS	95-47-6		
Xylene (Total)	11000	ug/l	5.0	1.0	09/23/03 07:05	RWS	1330-20-7		
Toluene-d8 (S)	107	%		1.0	09/23/03 07:05	RWS	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	09/23/03 07:05	RWS	460-00-4		
Dibromofluoromethane (S)	110	%		1.0	09/23/03 07:05	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		1.0	09/23/03 07:05	RWS	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341457 | Project Sample Number: 9250860-008 | Date Collected: 09/16/03 10:35
Client Sample ID: KMW-7 | Matrix: Water | Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	300	ug/l	10.	2.0	09/23/03 05:23	RWS	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/23/03 05:23	RWS	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	108-20-3		
Ethylbenzene	180	ug/l	5.0	1.0	09/23/03 05:23	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	87-68-3		
Isopropylbenzene (Cumene)	12.	ug/l	5.0	1.0	09/23/03 05:23	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341457 | Project Sample Number: 9250860-008 | Date Collected: 09/16/03 10:35
Client Sample ID: KMW-7 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	1634-04-4		
Naphthalene	150	ug/l	5.0	1.0	09/23/03 05:23	RWS	91-20-3		
n-Propylbenzene	22.	ug/l	5.0	1.0	09/23/03 05:23	RWS	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	127-18-4		
Toluene	14.	ug/l	5.0	1.0	09/23/03 05:23	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/23/03 05:23	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	96-18-4		
1,2,4-Trimethylbenzene	170	ug/l	5.0	1.0	09/23/03 05:23	RWS	95-63-6		
1,3,5-Trimethylbenzene	62.	ug/l	5.0	1.0	09/23/03 05:23	RWS	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/23/03 05:23	RWS	75-01-4		
m&p-Xylene	560	ug/l	20.	2.0	09/23/03 05:23	RWS			
o-Xylene	8.2	ug/l	5.0	1.0	09/23/03 05:23	RWS	95-47-6		
Xylene (Total)	570	ug/l	5.0	1.0	09/23/03 05:23	RWS	1330-20-7		
Toluene-d8 (S)	105	%		1.0	09/23/03 05:23	RWS	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	09/23/03 05:23	RWS	460-00-4		
Dibromofluoromethane (S)	96	%		1.0	09/23/03 05:23	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		1.0	09/23/03 05:23	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341465
Client Sample ID: KMW-10

Project Sample Number: 9250860-009
Matrix: Water

Date Collected: 09/16/03 10:15
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/29/03 19:33	RWS	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	108-20-3		
Ethylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341465 | Project Sample Number: 9250860-009 | Date Collected: 09/16/03 10:15
Client Sample ID: KMW-10 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	127-18-4		
Toluene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/29/03 19:33	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	75-01-4		
m&p-Xylene	ND	ug/l	10.	1.0	09/29/03 19:33	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	95-47-6		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 19:33	RWS	1330-20-7		
Toluene-d8 (S)	103	%		1.0	09/29/03 19:33	RWS	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	09/29/03 19:33	RWS	460-00-4		
Dibromofluoromethane (S)	96	%		1.0	09/29/03 19:33	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		1.0	09/29/03 19:33	RWS	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341473
Client Sample ID: KMW-8

Project Sample Number: 9250860-010
Matrix: Water

Date Collected: 09/16/03 10:10
Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	1900	ug/l	250	50.0	09/23/03 07:22	RWS	71-43-2		
Bromobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	108-86-1		
Bromochloromethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-27-4		
Bromoform	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-25-2		
Bromomethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	250	50.0	09/23/03 07:22	RWS	56-23-5		
Chlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	108-90-7		
Chloroethane	ND	ug/l	500	50.0	09/23/03 07:22	RWS	75-00-3		
Chloroform	ND	ug/l	250	50.0	09/23/03 07:22	RWS	67-66-3		
Chloromethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	250	50.0	09/23/03 07:22	RWS	106-93-4		
Dibromomethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	250	50.0	09/23/03 07:22	RWS	108-20-3		
Ethylbenzene	670	ug/l	250	50.0	09/23/03 07:22	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	250	50.0	09/23/03 07:22	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341473 | Project Sample Number: 9250860-010 | Date Collected: 09/16/03 10:10
Client Sample ID: KMW-8 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	99-87-6		
Methylene chloride	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-09-2		
Methyl-tert-butyl ether	1600	ug/l	250	50.0	09/23/03 07:22	RWS	1634-04-4		
Naphthalene	480	ug/l	250	50.0	09/23/03 07:22	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	103-65-1		
Styrene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	127-18-4		
Toluene	680	ug/l	250	50.0	09/23/03 07:22	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	79-00-5		
Trichloroethene	ND	ug/l	250	50.0	09/23/03 07:22	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	500	50.0	09/23/03 07:22	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	250	50.0	09/23/03 07:22	RWS	96-18-4		
1,2,4-Trimethylbenzene	1200	ug/l	250	50.0	09/23/03 07:22	RWS	95-63-6		
1,3,5-Trimethylbenzene	390	ug/l	250	50.0	09/23/03 07:22	RWS	108-67-8		
Vinyl chloride	ND	ug/l	250	50.0	09/23/03 07:22	RWS	75-01-4		
m&p-Xylene	5900	ug/l	500	50.0	09/23/03 07:22	RWS			
o-Xylene	450	ug/l	250	50.0	09/23/03 07:22	RWS	95-47-6		
Xylene (Total)	6300	ug/l	5.0	1.0	09/23/03 07:22	RWS	1330-20-7		
Toluene-d8 (S)	108	%		1.0	09/23/03 07:22	RWS	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	09/23/03 07:22	RWS	460-00-4		
Dibromofluoromethane (S)	91	%		1.0	09/23/03 07:22	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		1.0	09/23/03 07:22	RWS	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341481 | Project Sample Number: 9250860-011 | Date Collected: 09/16/03 11:30
Client Sample ID: KMW-1 | Matrix: Water | Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/23/03 05:57	RWS	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	108-20-3		
Ethylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341481 | Project Sample Number: 9250860-011 | Date Collected: 09/16/03 11:30
Client Sample ID: KMW-1 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	127-18-4		
Toluene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/23/03 05:57	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	96-18-4		
1,2,4-Trimethylbenzene	53.	ug/l	5.0	1.0	09/23/03 05:57	RWS	95-63-6		
1,3,5-Trimethylbenzene	40.	ug/l	5.0	1.0	09/23/03 05:57	RWS	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	75-01-4		
m&p-Xylene	22.	ug/l	10.	1.0	09/23/03 05:57	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/23/03 05:57	RWS	95-47-6		
Xylene (Total)	22.	ug/l	5.0	1.0	09/23/03 05:57	RWS	1330-20-7		
Toluene-d8 (S)	104	%		1.0	09/23/03 05:57	RWS	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	09/23/03 05:57	RWS	460-00-4		
Dibromofluoromethane (S)	91	%		1.0	09/23/03 05:57	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		1.0	09/23/03 05:57	RWS	17060-07-0		

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341499 | Project Sample Number: 9250860-012 | Date Collected: 09/16/03 11:20
Client Sample ID: KMW-4 | Matrix: Water | Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/23/03 07:55	RWS	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	108-20-3		
Ethylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341499
Client Sample ID: KMW-4

Project Sample Number: 9250860-012
Matrix: Water

Date Collected: 09/16/03 11:20
Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-09-2		
Methyl-tert-butyl ether	12.	ug/l	5.0	1.0	09/23/03 07:55	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	91-20-3		
n-Propylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	127-18-4		
Toluene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/23/03 07:55	RWS	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	75-01-4		
m&p-Xylene	ND	ug/l	10.	1.0	09/23/03 07:55	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	95-47-6		
Xylene (Total)	ND	ug/l	5.0	1.0	09/23/03 07:55	RWS	1330-20-7		
Toluene-d8 (S)	103	%		1.0	09/23/03 07:55	RWS	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	09/23/03 07:55	RWS	460-00-4		
Dibromofluoromethane (S)	92	%		1.0	09/23/03 07:55	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		1.0	09/23/03 07:55	RWS	17060-07-0		

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Phone: 704.875.9092
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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341507 | Project Sample Number: 9250860-013 | Date Collected: 09/16/03 10:55
Client Sample ID: KMW-3 | Matrix: Water | Date Received: 09/17/03 10:00

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	71-43-2		
Bromobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	108-86-1		
Bromochloromethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-27-4		
Bromoform	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-25-2		
Bromomethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	74-83-9		
n-Butylbenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	104-51-8		
sec-Butylbenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	98-06-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	108-90-7		
Chloroethane	ND	ug/l	10.	1.0	09/24/03 17:21	BCK	75-00-3		
Chloroform	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	67-66-3		
Chloromethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	74-87-3		
2-Chlorotoluene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	95-49-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	106-93-4		
Dibromomethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	106-46-7		
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	563-58-6		
Diisopropyl ether	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	108-20-3		
Ethylbenzene	120	ug/l	5.0	1.0	09/24/03 17:21	BCK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	98-82-8		

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Lab Project Number: 9250860
Client Project ID: FHR North

Lab Sample No: 923341507 | Project Sample Number: 9250860-013 | Date Collected: 09/16/03 10:55
Client Sample ID: KMW-3 | Matrix: Water | Date Received: 09/17/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
p-Isopropyltoluene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	99-87-6		
Methylene chloride	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	1634-04-4		
Naphthalene	8.1	ug/l	5.0	1.0	09/24/03 17:21	BCK	91-20-3		
n-Propylbenzene	9.4	ug/l	5.0	1.0	09/24/03 17:21	BCK	103-65-1		
Styrene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	127-18-4		
Toluene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	79-00-5		
Trichloroethene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	1.0	09/24/03 17:21	BCK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	96-18-4		
1,2,4-Trimethylbenzene	74.	ug/l	5.0	1.0	09/24/03 17:21	BCK	95-63-6		
1,3,5-Trimethylbenzene	32.	ug/l	5.0	1.0	09/24/03 17:21	BCK	108-67-8		
Vinyl chloride	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	75-01-4		
m&p-Xylene	250	ug/l	10.	1.0	09/24/03 17:21	BCK			
o-Xylene	ND	ug/l	5.0	1.0	09/24/03 17:21	BCK	95-47-6		
Xylene (Total)	250	ug/l	5.0	1.0	09/24/03 17:21	BCK	1330-20-7		
Toluene-d8 (S)	98	%		1.0	09/24/03 17:21	BCK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	09/24/03 17:21	BCK	460-00-4		
Dibromofluoromethane (S)	94	%		1.0	09/24/03 17:21	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%		1.0	09/24/03 17:21	BCK	17060-07-0		

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Lab Project Number: 9250860
Client Project ID: FHR North

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

QC Batch: 81937 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923341408 923341416 923341424

METHOD BLANK: 923361547
Associated Lab Samples: 923341408 923341416 923341424

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

METHOD BLANK: 923361547
Associated Lab Samples: 923341408 923341416 923341424

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Diisopropyl ether	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	
Toluene-d8 (S)	%	104		
4-Bromofluorobenzene (S)	%	92		
Dibromofluoromethane (S)	%	90		
1,2-Dichloroethane-d4 (S)	%	97		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	47.13	94	
Bromobenzene	ug/l	50.00	48.72	97	
Bromochloromethane	ug/l	50.00	46.18	92	
Bromodichloromethane	ug/l	50.00	49.39	99	
Bromoform	ug/l	50.00	41.68	83	
Bromomethane	ug/l	50.00	46.44	93	
n-Butylbenzene	ug/l	50.00	48.52	97	
sec-Butylbenzene	ug/l	50.00	49.82	100	
tert-Butylbenzene	ug/l	50.00	51.17	102	
Carbon tetrachloride	ug/l	50.00	50.32	101	
Chlorobenzene	ug/l	50.00	49.58	99	
Chloroethane	ug/l	50.00	48.56	97	
Chloroform	ug/l	50.00	47.34	95	
Chloromethane	ug/l	50.00	42.60	85	
2-Chlorotoluene	ug/l	50.00	50.28	101	
4-Chlorotoluene	ug/l	50.00	49.42	99	
1,2-Dibromo-3-chloropropane	ug/l	50.00	41.21	82	
Dibromochloromethane	ug/l	50.00	44.91	90	
1,2-Dibromoethane (EDB)	ug/l	50.00	50.92	102	
Dibromomethane	ug/l	50.00	50.60	101	
1,2-Dichlorobenzene	ug/l	50.00	50.01	100	
1,3-Dichlorobenzene	ug/l	50.00	51.23	102	
1,4-Dichlorobenzene	ug/l	50.00	48.24	96	
Dichlorodifluoromethane	ug/l	50.00	45.59	91	
1,1-Dichloroethane	ug/l	50.00	45.60	91	
1,2-Dichloroethane	ug/l	50.00	44.46	89	
1,1-Dichloroethene	ug/l	50.00	51.81	104	
cis-1,2-Dichloroethene	ug/l	50.00	45.11	90	
trans-1,2-Dichloroethene	ug/l	50.00	48.37	97	
1,2-Dichloropropane	ug/l	50.00	46.43	93	
1,3-Dichloropropane	ug/l	50.00	45.29	91	
2,2-Dichloropropane	ug/l	50.00	40.85	82	
1,1-Dichloropropene	ug/l	50.00	53.28	107	
Diisopropyl ether	ug/l	50.00	42.88	86	
Ethylbenzene	ug/l	50.00	48.05	96	
Hexachloro-1,3-butadiene	ug/l	50.00	52.77	106	
Isopropylbenzene (Cumene)	ug/l	50.00	49.31	99	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
p-Isopropyltoluene	ug/l	50.00	48.95	98	
Methylene chloride	ug/l	50.00	45.41	91	
Methyl-tert-butyl ether	ug/l	50.00	40.94	82	
Naphthalene	ug/l	50.00	43.53	87	
n-Propylbenzene	ug/l	50.00	50.09	100	
Styrene	ug/l	50.00	51.62	103	
1,1,1,2-Tetrachloroethane	ug/l	50.00	52.34	105	
1,1,2,2-Tetrachloroethane	ug/l	50.00	45.75	92	
Tetrachloroethene	ug/l	50.00	43.29	87	
Toluene	ug/l	50.00	52.55	105	
1,2,3-Trichlorobenzene	ug/l	50.00	43.35	87	
1,2,4-Trichlorobenzene	ug/l	50.00	44.99	90	
1,1,1-Trichloroethane	ug/l	50.00	49.14	98	
1,1,2-Trichloroethane	ug/l	50.00	55.11	110	
Trichloroethene	ug/l	50.00	51.16	102	
Trichlorofluoromethane	ug/l	50.00	49.68	99	
1,2,3-Trichloropropane	ug/l	50.00	46.93	94	
1,2,4-Trimethylbenzene	ug/l	50.00	48.23	96	
1,3,5-Trimethylbenzene	ug/l	50.00	48.93	98	
Vinyl chloride	ug/l	50.00	43.78	88	
m&p-Xylene	ug/l	100.00	99.82	100	
o-Xylene	ug/l	50.00	49.10	98	
Xylene (Total)	ug/l	150.00	148.9	99	
Toluene-d8 (S)				109	
4-Bromofluorobenzene (S)				102	
Dibromofluoromethane (S)				105	
1,2-Dichloroethane-d4 (S)				96	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923361836 923361844

Parameter	Units	923338842 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	38.70	50.00	73.22	66.94	69	56	9	
Chlorobenzene	ug/l	0	50.00	49.89	49.19	100	98	1	
1,1-Dichloroethene	ug/l	0	50.00	47.88	49.81	96	100	4	
Toluene	ug/l	1.085	50.00	49.97	51.01	98	100	2	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923361836 923361844

Parameter	Units	923338842 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Trichloroethene	ug/l	0	50.00	49.85	51.25	100	102	3	
Toluene-d8 (S)						108	110		
4-Bromofluorobenzene (S)						99	100		
Dibromofluoromethane (S)						95	95		
1,2-Dichloroethane-d4 (S)						107	94		

SAMPLE DUPLICATE: 923361729

Parameter	Units	923341408 Result	DUP Result	RPD	Footnotes
Benzene	ug/l	ND	ND	NC	
Bromobenzene	ug/l	ND	ND	NC	
Bromochloromethane	ug/l	ND	ND	NC	
Bromodichloromethane	ug/l	ND	ND	NC	
Bromoform	ug/l	ND	ND	NC	
Bromomethane	ug/l	ND	ND	NC	
n-Butylbenzene	ug/l	ND	ND	NC	
sec-Butylbenzene	ug/l	ND	ND	NC	
tert-Butylbenzene	ug/l	ND	ND	NC	
Carbon tetrachloride	ug/l	ND	ND	NC	
Chlorobenzene	ug/l	ND	ND	NC	
Chloroethane	ug/l	ND	ND	NC	
Chloroform	ug/l	ND	ND	NC	
Chloromethane	ug/l	ND	ND	NC	
2-Chlorotoluene	ug/l	ND	ND	NC	
4-Chlorotoluene	ug/l	ND	ND	NC	
1,2-Dibromo-3-chloropropane	ug/l	ND	ND	NC	
Dibromochloromethane	ug/l	ND	ND	NC	
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
Dibromomethane	ug/l	ND	ND	NC	
1,2-Dichlorobenzene	ug/l	ND	ND	NC	
1,3-Dichlorobenzene	ug/l	ND	ND	NC	
1,4-Dichlorobenzene	ug/l	ND	ND	NC	
Dichlorodifluoromethane	ug/l	ND	ND	NC	
1,1-Dichloroethane	ug/l	ND	ND	NC	
1,2-Dichloroethane	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

SAMPLE DUPLICATE: 923361729

Parameter	Units	923341408 Result	DUP Result	RPD	Footnotes
1,1-Dichloroethene	ug/l	ND	ND	NC	
cis-1,2-Dichloroethene	ug/l	ND	ND	NC	
trans-1,2-Dichloroethene	ug/l	ND	ND	NC	
1,2-Dichloropropane	ug/l	ND	ND	NC	
1,3-Dichloropropane	ug/l	ND	ND	NC	
2,2-Dichloropropane	ug/l	ND	ND	NC	
1,1-Dichloropropene	ug/l	ND	ND	NC	
Diisopropyl ether	ug/l	ND	ND	NC	
Ethylbenzene	ug/l	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/l	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/l	ND	ND	NC	
p-Isopropyltoluene	ug/l	ND	ND	NC	
Methylene chloride	ug/l	ND	ND	NC	
Methyl-tert-butyl ether	ug/l	ND	ND	NC	
Naphthalene	ug/l	ND	ND	NC	
n-Propylbenzene	ug/l	ND	ND	NC	
Styrene	ug/l	ND	ND	NC	
1,1,1,2-Tetrachloroethane	ug/l	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/l	ND	ND	NC	
Tetrachloroethene	ug/l	ND	ND	NC	
Toluene	ug/l	ND	ND	NC	
1,2,3-Trichlorobenzene	ug/l	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/l	ND	ND	NC	
1,1,1-Trichloroethane	ug/l	ND	ND	NC	
1,1,2-Trichloroethane	ug/l	ND	ND	NC	
Trichloroethene	ug/l	ND	ND	NC	
Trichlorofluoromethane	ug/l	ND	ND	NC	
1,2,3-Trichloropropane	ug/l	ND	ND	NC	
1,2,4-Trimethylbenzene	ug/l	ND	ND	NC	
1,3,5-Trimethylbenzene	ug/l	ND	ND	NC	
Vinyl chloride	ug/l	ND	ND	NC	
m&p-Xylene	ug/l	20000	21000	3	
o-Xylene	ug/l	ND	ND	NC	
Xylene (Total)	ug/l	20000	21000	3	
Toluene-d8 (S)	%	107	102		
4-Bromofluorobenzene (S)	%	96	97		
Dibromofluoromethane (S)	%	94	103		

Date: 09/30/03

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

SAMPLE DUPLICATE: 923361729

Parameter	Units	923341408 Result	DUP Result	RPD	Footnotes
1,2-Dichloroethane-d4 (S)	%	96	87		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

QC Batch: 81939 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923341382 923341390

METHOD BLANK: 923361588
Associated Lab Samples: 923341382 923341390

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

METHOD BLANK: 923361588
Associated Lab Samples: 923341382 923341390

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Diisopropyl ether	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	103		
Dibromofluoromethane (S)	%	93		
1,2-Dichloroethane-d4 (S)	%	85		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	44.46	89	
Bromobenzene	ug/l	50.00	40.84	82	
Bromochloromethane	ug/l	50.00	44.24	88	
Bromodichloromethane	ug/l	50.00	39.84	80	
Bromoform	ug/l	50.00	44.65	89	
Bromomethane	ug/l	50.00	33.24	66	
n-Butylbenzene	ug/l	50.00	38.73	78	
sec-Butylbenzene	ug/l	50.00	43.79	88	
tert-Butylbenzene	ug/l	50.00	44.04	88	
Carbon tetrachloride	ug/l	50.00	51.82	104	
Chlorobenzene	ug/l	50.00	48.47	97	
Chloroethane	ug/l	50.00	56.41	113	
Chloroform	ug/l	50.00	41.64	83	
Chloromethane	ug/l	50.00	52.17	104	
2-Chlorotoluene	ug/l	50.00	43.55	87	
4-Chlorotoluene	ug/l	50.00	45.01	90	
1,2-Dibromo-3-chloropropane	ug/l	50.00	23.38	47	1
Dibromochloromethane	ug/l	50.00	43.80	88	
1,2-Dibromoethane (EDB)	ug/l	50.00	45.05	90	
Dibromomethane	ug/l	50.00	45.70	91	
1,2-Dichlorobenzene	ug/l	50.00	47.04	94	
1,3-Dichlorobenzene	ug/l	50.00	44.67	89	
1,4-Dichlorobenzene	ug/l	50.00	46.85	94	
Dichlorodifluoromethane	ug/l	50.00	55.05	110	
1,1-Dichloroethane	ug/l	50.00	39.13	78	
1,2-Dichloroethane	ug/l	50.00	37.10	74	
1,1-Dichloroethene	ug/l	50.00	44.83	90	
cis-1,2-Dichloroethene	ug/l	50.00	41.38	83	
trans-1,2-Dichloroethene	ug/l	50.00	40.17	80	
1,2-Dichloropropane	ug/l	50.00	40.37	81	
1,3-Dichloropropane	ug/l	50.00	43.84	88	
2,2-Dichloropropane	ug/l	50.00	42.78	86	
1,1-Dichloropropene	ug/l	50.00	41.46	83	
Diisopropyl ether	ug/l	50.00	37.68	75	
Ethylbenzene	ug/l	50.00	45.93	92	
Hexachloro-1,3-butadiene	ug/l	50.00	35.69	71	
Isopropylbenzene (Cumene)	ug/l	50.00	45.67	91	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
p-Isopropyltoluene	ug/l	50.00	43.12	86	
Methylene chloride	ug/l	50.00	40.82	82	
Methyl-tert-butyl ether	ug/l	50.00	36.39	73	
Naphthalene	ug/l	50.00	24.62	49	1
n-Propylbenzene	ug/l	50.00	45.72	91	
Styrene	ug/l	50.00	44.80	90	
1,1,1,2-Tetrachloroethane	ug/l	50.00	43.94	88	
1,1,2,2-Tetrachloroethane	ug/l	50.00	43.34	87	
Tetrachloroethene	ug/l	50.00	52.82	106	
Toluene	ug/l	50.00	45.73	92	
1,2,3-Trichlorobenzene	ug/l	50.00	21.64	43	1
1,2,4-Trichlorobenzene	ug/l	50.00	24.72	49	
1,1,1-Trichloroethane	ug/l	50.00	43.71	87	
1,1,2-Trichloroethane	ug/l	50.00	43.97	88	
Trichloroethene	ug/l	50.00	47.56	95	
Trichlorofluoromethane	ug/l	50.00	62.73	125	
1,2,3-Trichloropropane	ug/l	50.00	51.53	103	
1,2,4-Trimethylbenzene	ug/l	50.00	43.08	86	
1,3,5-Trimethylbenzene	ug/l	50.00	43.81	88	
Vinyl chloride	ug/l	50.00	49.62	99	
m&p-Xylene	ug/l	100.00	96.03	96	
o-Xylene	ug/l	50.00	48.58	97	
Xylene (Total)	ug/l	150.00	144.6	96	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				104	
Dibromofluoromethane (S)				88	
1,2-Dichloroethane-d4 (S)				80	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923361604 923361612

Parameter	Units	923339121 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	47.56	44.80	95	90	6	
Chlorobenzene	ug/l	0	50.00	52.24	51.13	104	102	2	
1,1-Dichloroethene	ug/l	0	50.00	44.90	47.93	90	96	7	
Toluene	ug/l	0	50.00	47.95	44.49	96	89	7	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923361604 923361612

Parameter	Units	923339121 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Trichloroethene	ug/l	0	50.00	50.61	46.90	101	94	8	
Toluene-d8 (S)						103	96		
4-Bromofluorobenzene (S)						103	106		
Dibromofluoromethane (S)						90	95		
1,2-Dichloroethane-d4 (S)						84	85		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

QC Batch: 81946 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923341432 923341440 923341457 923341465 923341473 923341481 923341499

METHOD BLANK: 923361752
Associated Lab Samples: 923341432 923341440 923341457 923341465 923341473 923341481 923341499

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

METHOD BLANK: 923361752
Associated Lab Samples: 923341432 923341440 923341457 923341465 923341473 923341481 923341499

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,3-Dichloropropane	ug/l	ND	5.0	
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Diisopropyl ether	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	
Toluene-d8 (S)	%	110		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	87		
1,2-Dichloroethane-d4 (S)	%	98		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	37.32	75	
Bromobenzene	ug/l	50.00	46.58	93	
Bromochloromethane	ug/l	50.00	54.97	110	
Bromodichloromethane	ug/l	50.00	52.67	105	
Bromoform	ug/l	50.00	45.53	91	
Bromomethane	ug/l	50.00	53.71	107	
n-Butylbenzene	ug/l	50.00	46.26	92	
sec-Butylbenzene	ug/l	50.00	46.95	94	
tert-Butylbenzene	ug/l	50.00	48.32	97	
Carbon tetrachloride	ug/l	50.00	46.28	93	
Chlorobenzene	ug/l	50.00	48.99	98	
Chloroethane	ug/l	50.00	48.50	97	
Chloroform	ug/l	50.00	54.41	109	
Chloromethane	ug/l	50.00	48.24	96	
2-Chlorotoluene	ug/l	50.00	47.74	96	
4-Chlorotoluene	ug/l	50.00	47.79	96	
1,2-Dibromo-3-chloropropane	ug/l	50.00	47.68	95	
Dibromochloromethane	ug/l	50.00	46.66	93	
1,2-Dibromoethane (EDB)	ug/l	50.00	55.11	110	
Dibromomethane	ug/l	50.00	54.77	110	
1,2-Dichlorobenzene	ug/l	50.00	48.65	97	
1,3-Dichlorobenzene	ug/l	50.00	49.63	99	
1,4-Dichlorobenzene	ug/l	50.00	47.43	95	
Dichlorodifluoromethane	ug/l	50.00	48.49	97	
1,1-Dichloroethane	ug/l	50.00	52.33	105	
1,2-Dichloroethane	ug/l	50.00	58.08	116	
1,1-Dichloroethene	ug/l	50.00	55.39	111	
cis-1,2-Dichloroethene	ug/l	50.00	51.96	104	
trans-1,2-Dichloroethene	ug/l	50.00	53.41	107	
1,2-Dichloropropane	ug/l	50.00	48.67	97	
1,3-Dichloropropane	ug/l	50.00	49.63	99	
2,2-Dichloropropane	ug/l	50.00	48.47	97	
1,1-Dichloropropene	ug/l	50.00	52.17	104	
Diisopropyl ether	ug/l	50.00	51.89	104	
Ethylbenzene	ug/l	50.00	47.45	95	
Hexachloro-1,3-butadiene	ug/l	50.00	47.50	95	
Isopropylbenzene (Cumene)	ug/l	50.00	48.35	97	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923361760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
p-Isopropyltoluene	ug/l	50.00	45.93	92	
Methylene chloride	ug/l	50.00	50.85	102	
Methyl-tert-butyl ether	ug/l	50.00	53.63	107	
Naphthalene	ug/l	50.00	46.30	93	
n-Propylbenzene	ug/l	50.00	46.99	94	
Styrene	ug/l	50.00	50.96	102	
1,1,1,2-Tetrachloroethane	ug/l	50.00	51.56	103	
1,1,2,2-Tetrachloroethane	ug/l	50.00	51.63	103	
Tetrachloroethene	ug/l	50.00	43.22	86	
Toluene	ug/l	50.00	52.13	104	
1,2,3-Trichlorobenzene	ug/l	50.00	43.66	87	
1,2,4-Trichlorobenzene	ug/l	50.00	44.74	90	
1,1,1-Trichloroethane	ug/l	50.00	53.46	107	
1,1,2-Trichloroethane	ug/l	50.00	60.03	120	
Trichloroethene	ug/l	50.00	51.41	103	
Trichlorofluoromethane	ug/l	50.00	53.76	108	
1,2,3-Trichloropropane	ug/l	50.00	51.50	103	
1,2,4-Trimethylbenzene	ug/l	50.00	45.89	92	
1,3,5-Trimethylbenzene	ug/l	50.00	46.83	94	
Vinyl chloride	ug/l	50.00	52.23	104	
m&p-Xylene	ug/l	100.00	98.18	98	
o-Xylene	ug/l	50.00	48.50	97	
Xylene (Total)	ug/l	150.00	146.7	98	
Toluene-d8 (S)				110	
4-Bromofluorobenzene (S)				104	
Dibromofluoromethane (S)				106	
1,2-Dichloroethane-d4 (S)				122	

SAMPLE DUPLICATE: 923361778

Parameter	Units	923341499 Result	DUP Result	RPD	Footnotes
Benzene	ug/l	ND	ND	NC	
Bromobenzene	ug/l	ND	ND	NC	
Bromochloromethane	ug/l	ND	ND	NC	
Bromodichloromethane	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

SAMPLE DUPLICATE: 923361778

Parameter	Units	923341499 Result	DUP Result	RPD	Footnotes
Bromoform	ug/l	ND	ND	NC	
Bromomethane	ug/l	ND	ND	NC	
n-Butylbenzene	ug/l	ND	ND	NC	
sec-Butylbenzene	ug/l	ND	ND	NC	
tert-Butylbenzene	ug/l	ND	ND	NC	
Carbon tetrachloride	ug/l	ND	ND	NC	
Chlorobenzene	ug/l	ND	ND	NC	
Chloroethane	ug/l	ND	ND	NC	
Chloroform	ug/l	ND	ND	NC	
Chloromethane	ug/l	ND	ND	NC	
2-Chlorotoluene	ug/l	ND	ND	NC	
4-Chlorotoluene	ug/l	ND	ND	NC	
1,2-Dibromo-3-chloropropane	ug/l	ND	ND	NC	
Dibromochloromethane	ug/l	ND	ND	NC	
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
Dibromomethane	ug/l	ND	ND	NC	
1,2-Dichlorobenzene	ug/l	ND	ND	NC	
1,3-Dichlorobenzene	ug/l	ND	ND	NC	
1,4-Dichlorobenzene	ug/l	ND	ND	NC	
Dichlorodifluoromethane	ug/l	ND	ND	NC	
1,1-Dichloroethane	ug/l	ND	ND	NC	
1,2-Dichloroethane	ug/l	ND	ND	NC	
1,1-Dichloroethene	ug/l	ND	ND	NC	
cis-1,2-Dichloroethene	ug/l	ND	ND	NC	
trans-1,2-Dichloroethene	ug/l	ND	ND	NC	
1,2-Dichloropropane	ug/l	ND	ND	NC	
1,3-Dichloropropane	ug/l	ND	ND	NC	
2,2-Dichloropropane	ug/l	ND	ND	NC	
1,1-Dichloropropene	ug/l	ND	ND	NC	
Diisopropyl ether	ug/l	ND	ND	NC	
Ethylbenzene	ug/l	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/l	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/l	ND	ND	NC	
p-Isopropyltoluene	ug/l	ND	ND	NC	
Methylene chloride	ug/l	ND	ND	NC	
Methyl-tert-butyl ether	ug/l	12.00	12.00	3	
Naphthalene	ug/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

SAMPLE DUPLICATE: 923361778

Parameter	Units	923341499 Result	DUP Result	RPD	Footnotes
n-Propylbenzene	ug/l	ND	ND	NC	
Styrene	ug/l	ND	ND	NC	
1,1,1,2-Tetrachloroethane	ug/l	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/l	ND	ND	NC	
Tetrachloroethene	ug/l	ND	ND	NC	
Toluene	ug/l	ND	ND	NC	
1,2,3-Trichlorobenzene	ug/l	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/l	ND	ND	NC	
1,1,1-Trichloroethane	ug/l	ND	ND	NC	
1,1,2-Trichloroethane	ug/l	ND	ND	NC	
Trichloroethene	ug/l	ND	ND	NC	
Trichlorofluoromethane	ug/l	ND	ND	NC	
1,2,3-Trichloropropane	ug/l	ND	ND	NC	
1,2,4-Trimethylbenzene	ug/l	ND	ND	NC	
1,3,5-Trimethylbenzene	ug/l	ND	ND	NC	
Vinyl chloride	ug/l	ND	ND	NC	
m&p-Xylene	ug/l	ND	ND	NC	
o-Xylene	ug/l	ND	ND	NC	
Xylene (Total)	ug/l	ND	ND	NC	
Toluene-d8 (S)	%	103	105		
4-Bromofluorobenzene (S)	%	88	99		
Dibromofluoromethane (S)	%	92	90		
1,2-Dichloroethane-d4 (S)	%	95	99		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

QC Batch: 81997 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923341507

METHOD BLANK: 923363790
Associated Lab Samples: 923341507

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

METHOD BLANK: 923363790
Associated Lab Samples: 923341507

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Diisopropyl ether	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	98		
Dibromofluoromethane (S)	%	92		
1,2-Dichloroethane-d4 (S)	%	89		

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923363808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	40.78	82	
Bromobenzene	ug/l	50.00	37.86	76	
Bromochloromethane	ug/l	50.00	38.44	77	
Bromodichloromethane	ug/l	50.00	42.20	84	
Bromoform	ug/l	50.00	45.78	92	
Bromomethane	ug/l	50.00	36.05	72	
n-Butylbenzene	ug/l	50.00	42.31	85	
sec-Butylbenzene	ug/l	50.00	42.60	85	
tert-Butylbenzene	ug/l	50.00	40.89	82	
Carbon tetrachloride	ug/l	50.00	42.87	86	
Chlorobenzene	ug/l	50.00	42.81	86	
Chloroethane	ug/l	50.00	36.95	74	
Chloroform	ug/l	50.00	41.30	83	
Chloromethane	ug/l	50.00	39.49	79	
2-Chlorotoluene	ug/l	50.00	46.72	93	
4-Chlorotoluene	ug/l	50.00	45.36	91	
1,2-Dibromo-3-chloropropane	ug/l	50.00	45.64	91	
Dibromochloromethane	ug/l	50.00	45.90	92	
1,2-Dibromoethane (EDB)	ug/l	50.00	45.06	90	
Dibromomethane	ug/l	50.00	43.81	88	
1,2-Dichlorobenzene	ug/l	50.00	41.48	83	
1,3-Dichlorobenzene	ug/l	50.00	40.99	82	
1,4-Dichlorobenzene	ug/l	50.00	40.17	80	
Dichlorodifluoromethane	ug/l	50.00	38.97	78	
1,1-Dichloroethane	ug/l	50.00	38.32	77	
1,2-Dichloroethane	ug/l	50.00	39.47	79	
1,1-Dichloroethene	ug/l	50.00	40.42	81	
cis-1,2-Dichloroethene	ug/l	50.00	38.84	78	
trans-1,2-Dichloroethene	ug/l	50.00	37.75	76	
1,2-Dichloropropane	ug/l	50.00	42.80	86	
1,3-Dichloropropane	ug/l	50.00	43.04	86	
2,2-Dichloropropane	ug/l	50.00	45.12	90	
1,1-Dichloropropene	ug/l	50.00	41.11	82	
Diisopropyl ether	ug/l	50.00	40.21	80	
Ethylbenzene	ug/l	50.00	42.95	86	
Hexachloro-1,3-butadiene	ug/l	50.00	51.84	104	
Isopropylbenzene (Cumene)	ug/l	50.00	44.46	89	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

LABORATORY CONTROL SAMPLE: 923363808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
p-Isopropyltoluene	ug/l	50.00	41.62	83	
Methylene chloride	ug/l	50.00	37.36	75	
Methyl-tert-butyl ether	ug/l	50.00	41.21	82	
Naphthalene	ug/l	50.00	45.32	91	
n-Propylbenzene	ug/l	50.00	44.67	89	
Styrene	ug/l	50.00	43.17	86	
1,1,1,2-Tetrachloroethane	ug/l	50.00	43.55	87	
1,1,2,2-Tetrachloroethane	ug/l	50.00	44.78	90	
Tetrachloroethene	ug/l	50.00	44.56	89	
Toluene	ug/l	50.00	40.94	82	
1,2,3-Trichlorobenzene	ug/l	50.00	46.12	92	
1,2,4-Trichlorobenzene	ug/l	50.00	40.37	81	
1,1,1-Trichloroethane	ug/l	50.00	41.26	82	
1,1,2-Trichloroethane	ug/l	50.00	43.62	87	
Trichloroethene	ug/l	50.00	42.89	86	
Trichlorofluoromethane	ug/l	50.00	40.22	80	
1,2,3-Trichloropropane	ug/l	50.00	46.39	93	
1,2,4-Trimethylbenzene	ug/l	50.00	41.01	82	
1,3,5-Trimethylbenzene	ug/l	50.00	40.63	81	
Vinyl chloride	ug/l	50.00	40.40	81	
m&p-Xylene	ug/l	100.00	86.32	86	
o-Xylene	ug/l	50.00	44.01	88	
Xylene (Total)	ug/l	150.00	130.3	87	
Toluene-d8 (S)				99	
4-Bromofluorobenzene (S)				104	
Dibromofluoromethane (S)				96	
1,2-Dichloroethane-d4 (S)				93	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923371561 923371579

Parameter	Units	923362453 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	46.21	46.11	92	92	0	
Chlorobenzene	ug/l	0	50.00	48.33	47.56	97	95	2	
1,1-Dichloroethene	ug/l	0	50.00	43.45	47.30	87	95	8	
Toluene	ug/l	0	50.00	46.72	45.74	93	92	2	

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QUALITY CONTROL DATA

Lab Project Number: 9250860
Client Project ID: FHR North

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923371561 923371579

Parameter	Units	923362453 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Trichloroethene	ug/l	0	50.00	47.51	48.32	95	97	2	
Toluene-d8 (S)						99	99		
4-Bromofluorobenzene (S)						103	98		
Dibromofluoromethane (S)						96	97		
1,2-Dichloroethane-d4 (S)						94	97		

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Lab Project Number: 9250860
Client Project ID: FHR North

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The surrogate and/or spike recovery was outside acceptance limits.

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9150860

[redacted]

Chain-of Custody Record & Analytical Request

COC# 36646

Page 1 of 2

Client: REISS REMEDIATION
Address: 411 EAST 37 ST. NO.
Address: WICHITA, KS 67201-2256
Quote #:

Project ID: FHR NORTH
Contact: FRANK VAN RYN
Phone: 316-828-2146
Fax: 316-828-4034

Date: 16 SEP 03
Turnaround: STANDARD
Job Number:
P.O. Number:

Report To: ~~FRANK VAN RYN~~ STEVE TYLER (CATUM)
Invoice To: FRANK VAN RYN

Sample ID	Date	Time	Matrix	Preservatives: HCL				Analyses: 8260B										Comments: Please specify any special reporting requirements
																		PROJECT MANAGER: SHERI STABEL
KMW-6	16SEP03	1040	W	X				X			9233413802							
KMW-14	16SEP03	1040	W	X				X			9233413900							COPY TO: STEVE TYLER
KMW-13	16SEP03	1050	W	X				X			9233414000							
KMW-12	16SEP03	1025	W	X				X			9233414116							
KMW-5	16SEP03	1135	W	X				X			9233414214							
KMW-11	16SEP03	1020	W	X				X			9233414332							
KMW-9	16SEP03	1014	W	X				X			9233414440							
KMW-7	16SEP03	1015	W	X				X			9233414550							
KMW-10	16SEP03	1015	W	X				X			9233414605							
KMW-8	16SEP03	1010	W	X				X			9233414723							

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[illegible]	9/17	10:00					NC ____ SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

LABORATORY

[redacted]

Chain-of Custody Record & Analytical Request

COC# 33943

Page 2 of 2

Client: REISS REMEDIATION
Address: 411 EAST 37 ST. NOR.
Address: WICHITA KS 67219-2256
Quote #:

Project ID: FHR NORTH
Contact: FRANK VAN RYN
Phone: 316-828-2146
Fax: 316-828-4034

Date: 16SEP03
Turnaround: STANDARD
Job Number:
P.O. Number:

Report To: FRANK VAN RYN
STEVE TYLER (CATLIN)
Invoice To: FRANK VAN RYN

Sample ID	Date	Time	Matrix	Preservatives: HCL				Analyses: 8260B										Comments: Please specify any special reporting requirements
																		PROJECT MGR:
KMW-1	16SEP03	1130	W	X				X		9233491491								SHERRI STASEL
KMW-4	16SEP03	1120	W	X				X		9233491499								
KMW-3	16SEP03	1055	W	X				X		9233491507								COPY TO: STEVE TYLER

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[illegible]	9/17	10:00					NC ____ SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

LABORATORY