DESCRIPTION OF REMEDIAL ALTERNATIVES
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA
January 16, 2004

ERM

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Section

Introduction

This document presents a revised preliminary conceptual design and cost evaluation of potential remedial measures for the Seaboard Chemical/Riverdale Drive Landfill Site in Jamestown, North Carolina. Based on discussions with the NCDENR on July 22, 2003, it is apparent that the use of "in-stream" remedial measures (i.e. in-stream constructed wetlands) for ground water remediation is not a preferred approach under current NCDENR policy. The use of in-stream constructed wetlands was a component of the remedial alternatives presented in the Revised Feasibility Study (April 19, 2001) for the site. Based on the NCDENR comments, the remedial approach presented in this report was revised to eliminate in-stream methods. The revised approach focuses on ground water extraction and treatment techniques. The data presented in this report are considered preliminary.

The remedial strategy for the site is based in part on the determination that, based on consideration of the presence of DNAPLs in the subsurface and the highly fractured and heterogeneous bedrock conditions present at the site, restoration of ground water quality is determined to be technically impracticable. The technical impracticability of ground water restoration at the Site was demonstrated by the results of the technology screening and analysis in the feasibility study The remedial simulations of the solute transport modeling also support that ground water restoration is impractical at the Site. The model simulations demonstrate that ground water extraction techniques would be effective for hydraulic containment but would not be effective in removing contaminants.

Revised Remedial Alternatives

General descriptions of the revised remedial measures are presented below for three areas of the site: the Southern Intermittent Stream, the Northern Intermittent Stream and the Deep River. The components of

the remedial alternatives are summarized in Table 1. Preliminary cost estimates are presented in Tables 2-1 through 2-7.

For each of the extraction systems, it is anticipated that the extracted ground water (90 gpm total) from the recovery wells and the collection trenches will be piped to an off-stream constructed wetland and/or an upland phytoremediation system for pretreatment. It is assumed that the phytoremediation system will have the capacity to manage all of the pretreated effluent water (90 gpm) by plant uptake/evapotranspiration (i.e. no discharge of pretreated effluent to the local POTW).

Southern Intermittent Stream Area

The remedial approach consists of the following major components:

- Four shallow recovery wells located in the western segment (upstream of the piped segment) of the Southern Intermittent Stream (SIS). The potential locations of the recovery wells (R1 through R4) are shown in Figure 1. The estimated total extraction rate of the four well network is 5 gallons per minute (gpm). The proposed recovery well locations and extraction rates were developed by modeling simulations performed by John Haselow using the existing ground water flow and solute transport model for the site. The modeling simulations included the higher water table conditions which will occur after the filling of Randleman Lake to normal pool elevation (Figure 2). The purpose of the recovery well network is to capture affected shallow ground water to protect surface water quality in the western segment of the SIS (upstream of the SIS piped segment).

- A ground water collection drain/trench located at the outlet of the piped segment of the SIS that underlies the landfill (Figure 1). The collection trench will be designed to collect the shallow ground water that discharges along the buried stream valley of the piped segment of the SIS and migrates beneath the pipe to the outlet at the existing sediment basin. The construction of the piped segment reportedly includes a gravel bed of unknown thickness beneath a 48-inch concrete pipe. The collection trench will tap into the gravel bed and the shallow water table zone in the vicinity of the pipe outlet to capture affected ground water. Modeling simulations will be performed to estimate the

extraction rate of the collection trench. For initial planning purposes, a preliminary extraction rate of 25 gpm is assumed for the collection trench.

- A video inspection survey is proposed to assess the integrity of the 700-foot long piped segment of the SIS. The video survey results will allow a determination of pipe condition and infiltration of ground water to the pipe. If necessary and feasible, pipe rehabilitation may be performed such as installing a liner to seal off infiltration of affected ground water into the pipe to protect surface water quality.

Northern Intermittent Stream Area

The remedial approach consists of the following major components:

- A collection trench located at the outlet of the piped segment of the NIS that underlies the landfill. The collection trench will be designed to collect the shallow ground water that discharges along the buried stream valley of the piped segment of the NIS and migrates beneath the pipe to the outlet near the confluence with the Deep River. Although details of the construction of the piped segment of the NIS are unknown, it is presumed that the 48-inch concrete pipe was installed on a gravel bed. The collection trench will tap into the gravel bed and the shallow water table zone in the vicinity of the pipe outlet to capture affected ground water. Modeling simulations will be performed to estimate the extraction rate of the collection trench. For initial planning purposes, a preliminary extraction rate of 30 gpm is assumed for the collection trench.

- A video inspection survey is proposed to assess the integrity of the 1,800-foot long piped segment of the NIS. The video survey results will allow a determination of pipe condition and infiltration of ground water to the pipe. If necessary and feasible, pipe rehabilitation may be performed such as installing a liner to seal off infiltration of affected ground water into the pipe to protect surface water quality.

Deep River Area

- Two intermediate-depth recovery wells located near the confluence of the SIS and the Deep River. Existing well PW-DR1 will be utilized as a recovery well. Ground water extraction testing of PW-DR1 conducted in 2002 indicated that the affected ground water could be captured at the Deep River by pumping from PW-DR-1 at a rate of 10 to 20 gpm. However to be conservative and to account for the greater ground water yields that are expected to result after Randleman Lake is filled to normal pool, a second recovery well located in the vicinity of PW-13I is included for planning purposes. The estimated total extraction rate of the two-well network is 30 gpm. Modeling simulations will be performed to refine the extraction rates of the proposed wells under the higher water table conditions which will occur after the filling of Randleman Lake to normal pool elevation. The purpose of the recovery well network is to capture affected ground water from the fractured bedrock aquifer to protect surface water quality in the Deep River.

Common Component Costs

Common components for all the remedial alternatives are presented in Table 2-2. The common components include:

- Soil residue mound cap enhancement and O&M
- Site security
- Routine ground water and surface water monitoring
- Periodic reviews and reporting
- Miscellaneous permitting, legal, modeling, pilot testing and engineering activities

Alternative Treatment of Extracted Ground Water

The most cost effective remedy would include the use of phytoremediation for the treatment of extracted ground water. Currently, studies are underway to evaluate the feasibility and effectiveness of phytoremediation for treatment of VOC and 1,4-dioxane-affected ground water. In the event that phytoremediation is not effective, treatment by ultraviolet (UV) light and/or oxidation technology is an alternative treatment method that is known to be effective. Costs associated with a UV oxidation treatment system with discharge to the POTW are presented in Table 2-6. Because the

maximum capacity of commercially-available UV reactors is limited to approximately 50 gpm, costs are included in Table 2-6 for two UV reactors (50 gpm each) to treat the 90 gpm design flow of extracted ground water.

Summary of Alternatives

A summary of the capital costs, annual O&M costs, 30-year present worth O&M costs and total projected costs for the ground water extraction and phytoremediation treatment remedy is presented in Table 2-7. Cost summaries for two additional remedies are also presented in Table 2-7. Alternative Remedy 1 consists of ground water extraction and UV oxidation treatment and discharge to the POTW. Alternative Remedy 2 consists of ground water extraction and UV oxidation treatment and discharge to a phytoremediation/constructed wetlands system.

Table 1 *Assembly of Remedial Alternatives*
Former Seaboard Chemical / Riverdale Drive Landfill Site
High Point, North Carolina

Component Technologies		Common Components to All Alternatives	Southern Intermittent Stream	Northern Intermittent Stream	Deep River at SIS
Institutional Controls / Fencing		X			
Pipe Rehabilitation (Liner)			X (If Needed)	X (If Needed)	
Ground Water Extraction:	Recovery Wells		X - 4 Wells @ 5 gpm total	(X)	X - 2 Wells @ 30 gpm total
	Interceptor Trench at Outlet of Piped Segment		X - 1 Trench @ ~25 gpm	X - 1 Trench @ ~30 gpm	
Ground Water Pretreatment:					
	Solids Removal		(X)	(X)	(X)
	Air Stripper		(X)	(X)	(X)
	UV Oxidation		(X)	(X)	(X)
	Constructed Wetlands[1]		X	X	X
	Upland Phytoremediation[2]		X	X	X
Discharge to Local POTW			(X)	(X)	(X)
Soil Residue Mound Cap Enhancement		X			
Ground Water and Surface Water Monitoring		X			

Notes:
X = Component of the alternative.
(X) = Contingency or secondary measure which should be considered if deemed necessary based on performance monitoring results or regulatory requirements.
1 - Constructed wetlands may be utilized for initial pretreatment of recovered ground water prior to additional pretreatment by upland phytoremediation system.
2 - Conceptual design consists of treatment of extracted ground water by phytovolatilization processes.
Landfill leachate collection is considered a common component of all alternatives but is not included in the analysis because it is an ongoing remedial measure.
Extraction rates for the interceptor trenches at the SIS and NIS are preliminary estimates and are not based on rigorous analysis. Numerical modeling is planned to further assess the likely range of extraction rates in the interceptor trenches under normal pool conditions of Randleman Lake.

Table 2-1
No Action
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

O&M Costs

Description	Annual Cost	Present Worth*
Site-Security/Fence Maintenance	$15,000	$231,000
GW/SW Monitoring	$50,000	$769,000
Periodic Agency Reviews/Reporting	$10,000	$154,000
Subtotal	$75,000	$1,154,000
30% Contingency	$23,000	$346,000
Projected Opinion of Probable Cost	$98,000	$1,500,000

Notes:
1) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate.

Table 2-2
Common Costs for All Remedial Alternatives
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

Item Description	Quantity	Unit	Unit Cost	Item Cost
Site Preparation/Mobilization	1	Lump	$10,000	$10,000
Soil Residue Mound Cap Enhancement	1	Lump	$16,000	$16,000
Direct Construction Total (DCT)				$26,000
Indirect Construction (20% of DCT)				$5,000
Construction Subtotal				**$31,000**
Permitting & Legal (e.g., deed restrictions)				$25,000
Remedial Design/Construction Oversight				$35,000
Engineering Subtotal				**$91,000**
Contingency (30%)				$27,000
Total Common Cost (Capital)				$149,000
Total Common Cost (Present Worth O&M Cost from below)				$1,460,000
Projected Opinion of Probable Cost				**$1,609,000**

O&M Costs

Description	Annual Cost	Present Worth*
Site-Security/Fence Maintenance	$8,000	$123,000
GW/SW Monitoring	$50,000	$769,000
Remedial System O&M	$5,000	$77,000
Periodic Agency Reviews/Reporting	$10,000	$154,000
Subtotal	$73,000	$1,123,000
30% Contingency	$22,000	$337,000
Projected Opinion of Probable Cost	**$95,000**	**$1,460,000**

Notes:
1) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate.

Table 2-3
Ground Water Extraction at SIS
With Discharge to Phytoremediation Area
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

Item Description	Quantity	Unit	Unit Cost	Item Cost
Site Preparation/Mobilization	1	Lump	$40,000	$40,000
Pipe Liner/Repairs at SIS	1	Lump	$50,000	$50,000
Ground Water Recovery at SIS (30 gpm total):				
Recovery Well Installation at Western Segment (5 gpm)	4	Ea	$10,000	$40,000
Collection Trench at Piped Segment Outlet (25 gpm):				
ASTM A572 Grade 50 Sheet Piling	25	Linear Feet	$300	$7,500
6" Rec. Wells w/Interlocking Ped Well Covers	30	Linear Feet	$120	$3,600
Containment & Disposal of Liquids	1,250	Gallon	$0.30	$375
Pumps for recovery wells & trench	6	Each	$5,000	$30,000
Pumping stations	3	Each	$20,000	$60,000
6" Force Main: Trenches to Phyto System	700	Linear Feet	$50	$35,000
4" Force Main: Recovery Wells to Phyto System	700	Linear Feet	$45	$31,500
Transfer Tanks	3	Each	$10,000	$30,000
Electrical Control System	1	Each	$35,000	$35,000
GW Treatment Sys. - Phytoremediation/Const.Wetlands	1	Lump	$150,000	$150,000
Health & Safety	1	Lump	$10,000	$10,000
Direct Construction Total (DCT)				$523,000
Indirect Construction (20% of DCT)				$105,000
Construction Subtotal				**$628,000**
Design				$85,000
Construction Oversight				$30,000
System Startup and Manuals				$20,000
Engineering Subtotal				**$135,000**
Contingency (30%)				$229,000
Total Capital Cost				$992,000
Total Present Worth O&M Cost (from below)				$307,000
Projected Opinion of Probable Cost				**$1,299,000**

O&M Costs

Description	Annual Cost	Present Worth*
System O&M	$15,000	$230,580
Subtotal	$15,000	$230,580
30% Contingency	$4,500	$69,174
Projected Opinion of Probable Cost	$20,000	$307,000

Notes:
1) Conceptual remediation system for protection of SIS surface water quality consists of 4 shallow ground water recovery wells at western segment of SIS and a shallow ground water collection trench at outlet of piped segment of SIS; extracted ground water piped to phytoremediation area (with zero discharge).
2) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
3) Electrical control system costs do not account for UL listed or explosion proof components. If UL listed or explosion proof components are required, add 20% to estimate.
4) No costs included for flood protection of equipment located near river/reservoir.
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate

Table 2-4
Ground Water Extraction at NIS
With Discharge to Phytoremediation Area
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

Item Description	Quantity	Unit	Unit Cost	Item Cost
Site Preparation/Mobilization	1	Lump	$20,000	$20,000
Pipe Liner/Repairs at NIS	1	Lump	$50,000	$50,000
Ground Water Recovery at NIS (30 gpm total):				
Collection Trench at Piped Segment Outlet (30 gpm):				
ASTM A572 Grade 50 Sheet Piling	25	Linear Feet	$300	$7,500
6" Rec. Wells w/Interlocking Ped Well Covers	30	Linear Feet	$120	$3,600
Containment & Disposal of Liquids	1,250	Gallon	$0.30	$375
Pumps for trench	2	Each	$5,000	$10,000
Pumping stations	1	Each	$20,000	$20,000
6" Force Main: Trench to Phytoremediation Area	700	Linear Feet	$50	$35,000
Transfer Tanks	1	Each	$10,000	$10,000
Electrical Control System	1	Each	$35,000	$35,000
GW Treatment Sys. - Phytoremediation/Const.Wetlands	1	Lump	$150,000	$150,000
Health & Safety	1	Lump	$5,000	$5,000
Direct Construction Total (DCT)				$346,000
Indirect Construction (20% of DCT)				$69,000
Construction Subtotal				**$415,000**
Design				$40,000
Construction Oversight				$20,000
System Startup and Manuals				$10,000
Engineering Subtotal				**$70,000**
Contingency (30%)				$146,000
Total Capital Cost				$631,000
Total Present Worth O&M Cost (from below)				$200,000
Projected Opinion of Probable Cost				**$831,000**

O&M Costs

Description	Annual Cost	Present Worth*
System O&M	$10,000	$153,720
Subtotal	$10,000	$153,720
30% Contingency	$3,000	$46,116
Projected Opinion of Probable Cost	$13,000	$200,000

Notes:
1) Conceptual remediation system for protection of NIS surface water quality consists of a shallow ground water collection trench at outlet of piped segment of NIS; extracted ground water piped to phytoremediation area (with zero discharge).
2) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
3) Electrical control system costs do not account for UL listed or explosion proof components. If UL listed or explosion proof components are required, add 20% to estimate.
4) No costs included for flood protection of equipment located near river/reservoir.
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate

Table 2-5
Ground Water Extraction at Deep River
With Discharge to Phytoremediation Area
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

Item Description	Quantity	Unit	Unit Cost	Item Cost
Site Preparation/Mobilization	1	Lump	$60,000	$60,000
Ground Water Recovery at Deep River (30 gpm):				
Recovery Well Installation	2	Ea	$15,000	$30,000
Pumps/Pump Station	1	Lump	$25,000	$25,000
Electrical/Controls	1	Lump	$30,000	$30,000
6" Discharge Line: Recovery Wells to Phytoremediation Area	700	Linear Feet	$50	$35,000
GW Treatment Sys. - Phytoremediation/Const. Wetlands	1	Lump	$150,000	$150,000
Direct Construction Total (DCT)				$330,000
Indirect Construction (20% of DCT)				$66,000
Construction Subtotal				**$396,000**
Modeling/Pilot Testing				$180,000
Remedial Design/Construction Oversight				$198,000
Engineering Subtotal				**$378,000**
Contingency (30%)				$113,000
Total Capital Cost				$887,000
Total Present Worth O&M Cost (from below)				$1,539,000
Projected Opinion of Probable Cost				**$2,426,000**

O&M Costs

Description	Annual Cost	Present Worth*
GW/SW Monitoring	$2,000	$31,000
Ground Water Extraction System O&M	$70,000	$1,076,000
Constucted Wetlands/Phytoremed System O&M	$5,000	$77,000
Subtotal	$77,000	$1,184,000
30% Contingency	$23,000	$355,000
Projected Opinion of Probable Cost	**$100,000**	**$1,539,000**

Notes:
1) Conceptual remediation system at Deep River consists of 2 intermediate-depth ground water recovery wells; recovered ground water piped to phytoremediation area for treatmernt (with zero discharge).
2) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate.

Table 2-6
Alternative Ground Water Treatment by UV Oxidation System
With Discharge to Local POTW
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

Item Description	Quantity	Unit	Unit Cost	Item Cost
Site Preparation/Mobilization	1	Lump	$80,000	$80,000
Pre-Engineered Metal Building (80' by 100')	1	Lump	$600,000	$600,000
Sand Filter and Pre-Treatment Filtration	1	Lump	$95,000	$95,000
Stabilization and Mixing Tanks	1	Lump	$95,000	$95,000
Pumps and Compressors	1	Lump	$100,000	$100,000
Post Treatment Feed Pumps and Mixers	1	Lump	$45,000	$45,000
Instrumentation and Controls	1	Lump	$250,000	$250,000
UV Reactors (2 @ 50 gpm) and System Hardware	2	Lump	$170,000	$340,000
Electrical Installation	1	Lump	$500,000	$500,000
Mechanical Installation	1	Lump	$500,000	$500,000
Direct Construction Total (DCT)				$2,605,000
Indirect Construction (20% of DCT)				$521,000
Construction Subtotal				**$3,126,000**
Modeling/Pilot Testing				$80,000
Treatment System Design				$250,000
Construction Oversight				$165,000
System Startup and Manuals				$155,000
Engineering Subtotal				**$650,000**
Contingency (30%)				$1,133,000
Total Capital Cost				$4,909,000
Total Present Worth O&M Cost (from below)				$13,543,000
Projected Opinion of Probable Cost				**$18,452,000**

O&M Costs

Description	Annual Cost	Present Worth*
Treatment System Monitoring	$12,000	$184,464
Treatment System O&M	$260,000	$3,996,720
Chemical Cost and Sludge Disposal	$70,000	$1,076,040
POTW User Fee	$336,000	$5,164,992
Subtotal	$678,000	$10,422,216
30% Contingency	$203,000	$3,120,516
Projected Opinion of Probable Cost	$881,000	$13,543,000

Notes:
1) As alternative to phytoremediation, the conceptual treatment system consists of chemical oxidation using hydrogen peroxide followed by UV light treatment (for 1,4-dioxane); treated effluent discharged to POTW.
2) Estimated costs are based on a preliminary level of development, and are subject to change based on future investigations and evaluations.
3) Costs based on system design flow of 90 gpm and 20 hour/week O&M contract
4) Chemical cost based on approx. 45,000 lbs/mo of peroxide. Actual amount would need to be determined by on-site testing.
5) POTW user fee based on the City of High Point rate of $0.007/gallon ($5.22/750 gals.).
6) Based on commercially-available equipment sizes, it is presumed that two UV reactors will be required to treat design flow of 90 gpm.
7) Electrical installation cost includes power line to treatment building located on east side of landfill.
8) Costs are for treatment system only (ground water extraction system costs excluded)
* Based on discount rate i = 5% and n = 30 yrs. Discount rate = interest rate - inflation rate

Table 2-7
Summary of Alternatives
Seaboard Chemical/Riverdale Drive Landfill Site
High Point, North Carolina

	2-1 No Action	2-2 Common Component Costs	2-3 Ground Water Extraction at SIS with Discharge to Phytoremediation Area (30 GPM)	2-4 Ground Water Extraction at NIS with Discharge to Phytoremediation Area (30 GPM)	2-5 Ground Water Extraction at Deep River with Discharge to Phytoremediation Area (30 GPM)	2-6 Ground Water Treatment - UV Oxidation System with Discharge to Local POTW (90 GPM)
Total Capital Cost	$0	$149,000	$992,000	$631,000	$887,000	$4,909,000
Total Annual O&M Cost	$98,000	$95,000	$20,000	$13,000	$100,000	$881,000
Total Present Worth O&M Cost (30 Yrs)	$1,500,000	$1,460,000	$307,000	$200,000	$1,539,000	$13,543,000
Projected Opinion of Probabale Cost	**$1,500,000**	**$1,609,000**	**$1,299,000**	**$831,000**	**$2,426,000**	**$18,452,000**

Estimated Total Cost - GW Extraction/Discharge to Wetlands/Phytoremediation Area Remedy:			
	Capital	Present Worth O&M (30 Yrs)	
Common Costs	$149,000	$1,460,000	
SIS	$992,000	$307,000	
NIS	$631,000	$200,000	
Deep River	$887,000	$1,539,000	
Totals	$2,659,000	$3,506,000	$6,165,000

Estimated Total Cost - Alternative Remedy 1 (GW Extraction/UV Ox./Discharge to POTW):			
	Capital	Present Worth O&M (30 Yrs)	
Common Costs	$149,000	$1,460,000	
SIS	$758,000	$307,000	
NIS	$397,000	$200,000	
Deep River	$655,000	$1,439,000	
UV Oxid Sys./POTW	$4,909,000	$13,543,000	
Totals	$6,868,000	$16,949,000	$23,817,000

Estimated Total Cost - Alternative Remedy 2 (GW Extract./UV Ox./Discharge Wetlands/Phyto):			
	Capital	Present Worth O&M (30 Yrs)	
Common Costs	$149,000	$1,460,000	
SIS	$992,000	$307,000	
NIS	$631,000	$200,000	
Deep River	$887,000	$1,539,000	
UV Oxid Sys	$4,909,000	$6,841,000	
Totals	$7,568,000	$10,347,000	$17,915,000

Notes:
1) Estimated costs are based on a preliminary level of development and are subject to change based on future investigations and evaluations.
2) See associated tables (2-1 thru 2-6) for cost breakdowns and assumptions for each remediation system component.
3) Estimated total cost for the ground water extraction & phytoremediation treatment remedy includes all costs from Tables 2-2 through 2-5.
4) Estimated total cost for Alternative Remedy 1 (ground water extraction & UV oxidation treatment with discharge to POTW) excludes phytoremediation/wetlands costs from Tables 2-2 through 2-5 and includes costs from Table 2-6.
5) Estimated total cost for Alternative Remedy 2 (ground water extraction & UV oxidation treatment with discharge to wetlands/phytoremediation area) includes wetlands/phytoremediation costs from Tables 2-2 through 2-5 and includes costs from Table 2-6 except POTW user fee.

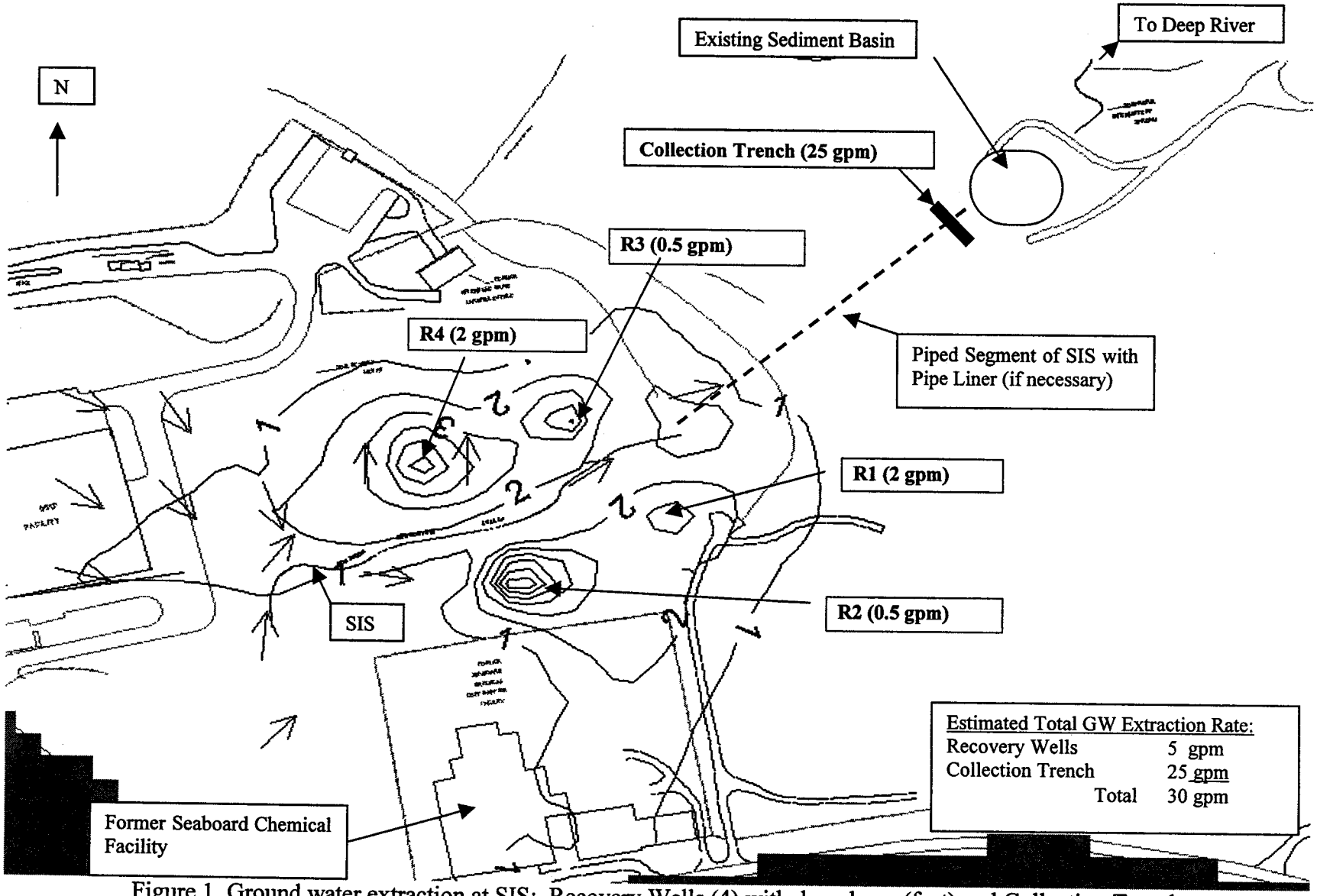

Figure 1. Ground water extraction at SIS: Recovery Wells (4) with drawdown (feet) and Collection Trench

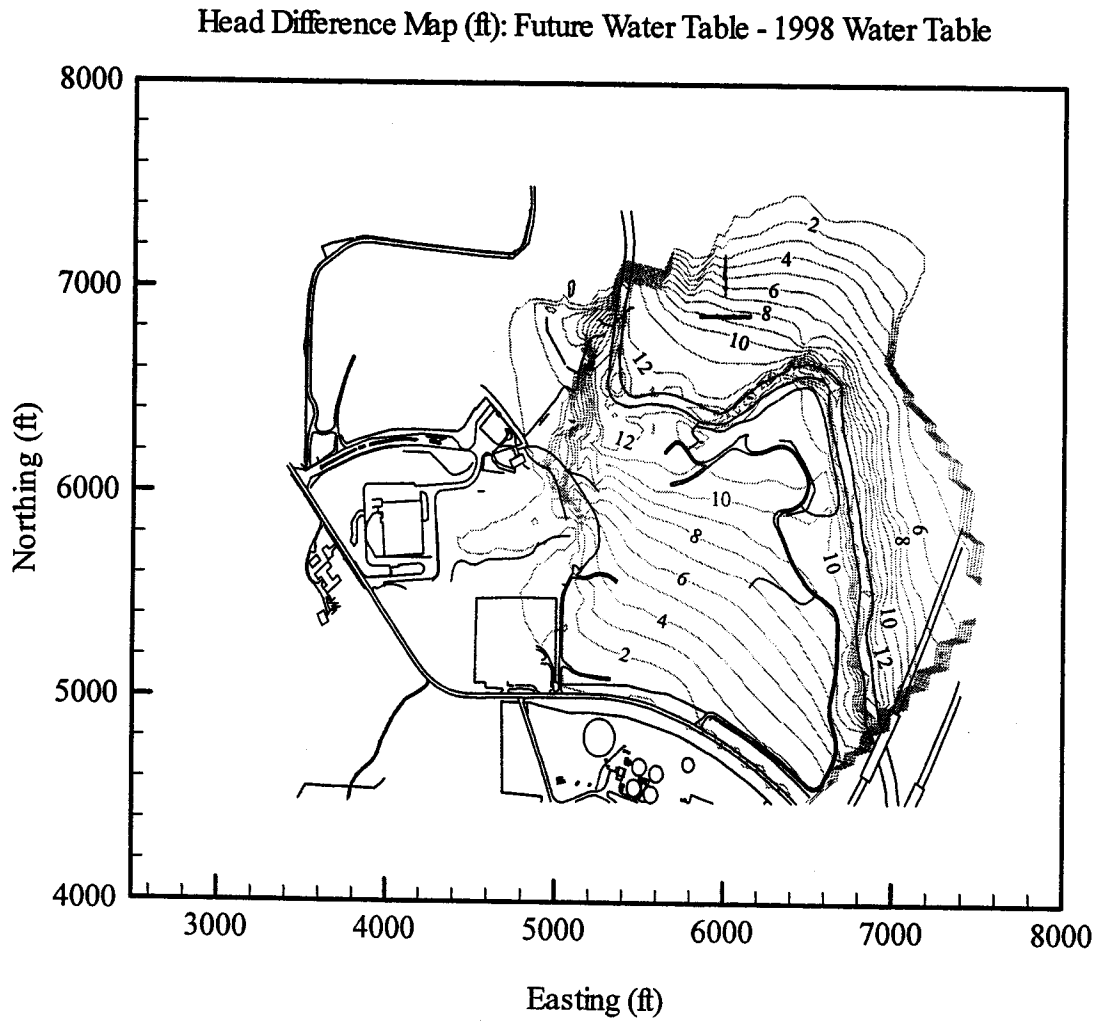

Figure 2. Increase in Water Table from Damming Deep River (feet)

Seaboard Group II and City of High Point, North Carolina

Annual Monitoring Report - September – October 2003

Former Seaboard Chemical/Riverdale Drive Landfill Site Jamestown, North Carolina

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Seaboard Group II and City of High Point, North Carolina

Annual Monitoring Report – September – October 2003

Former Seaboard Chemical/Riverdale Drive Landfill Site

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6A	*Ground Water Quality – Bedrock Aquifer – 1,2 – DCA*
6B	*Ground Water Quality – Bedrock Aquifer – Vinyl Chloride*
6C	*Ground Water Quality – Bedrock Aquifer – Chlorobenzene*
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8	*Locations of Hydrogeologic Cross Sections*
8AA	*Hydrogeologic Cross Section AA-AA'*
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9B	*Surface Water Quality – Total VOCs*

APPENDICES

A	*Annual Ground Water and Surface Water Monitoring Program*
B	*Laboratory Data Sheets*

1.0 *INTRODUCTION*

Ground water and surface water monitoring activities were conducted at the Seaboard Chemical/Riverdale Drive Landfill site during September and November 2003. A site location map and site map are presented in Figure 1 and Figure 2, respectively. The work was performed by ERM NC, PC and Babb & Associates on behalf of the Seaboard Group II and the City of High Point. The activities were conducted in accordance with the approved scope of work described in the *Annual Ground Water and Surface Water Monitoring Program,* dated July 3, 2001, as amended under Technical Memorandum No. 14 (*Pre-Remedial Assessment Activities Work Plan)* dated May 28, 2002. The scope of work and results presented in this report supplement the initial Remedial Investigation which was conducted at the site from 1996 to 1998, and previous supplemental RI and annual monitoring activities which were conducted at the site from 2000 to 2002. Results of the initial remedial investigation are presented in *Remedial Investigation Report for the Seaboard Chemical Corporation/Riverdale Drive Landfill Site* (BB&L, 2000). Results of the previous supplemental RI and annual monitoring activities are presented in *Supplemental RI and Annual Monitoring Report* (ERM, February 2001), *Supplemental RI and Annual Monitoring Report* (ERM, December 2001), *Annual Monitoring Report - September 2002* (ERM, February 2003). The remedial investigation and monitoring activities were conducted under an Administrative Order on Consent (AOC), dated June 30, 1996, with the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management.

2.0 *ANNUAL GROUND WATER & SURFACE WATER MONITORING*

The annual ground water and surface water monitoring program was conducted at the Seaboard Chemical and Riverdale Drive Landfill Site during the periods of September 15-23 and October 20-22, 2003. The monitoring activities were initiated in September but had to be suspended because some monitoring locations became inaccessible due to extremely wet conditions caused by

flooding from heavy rainfall on September 23. Several weeks were required for the site to dry out. The ground water sampling activities were then resumed and completed during October 20 – 22, 2003. The primary objectives of the ground water and surface water monitoring program are:

- Monitor VOC concentrations and migration of the VOC-affected ground water at the Site.
- Monitor ground water elevations, hydraulic gradients and flow directions
- Monitor natural attenuation indicator parameters in ground water
- Measure the relative hydraulic gradient between ground water and surface water at the Site
- Monitor surface water quality in the Deep River, Northern Intermittent Stream and Southern Intermittent Stream to assess potential impacts from VOC-affected ground water discharge

In accordance with the approved monitoring plan, ground water sampling was conducted at 35 monitor wells, including seven off-site monitor wells (PW-14S, PW-14D, PW-15S, PW-15D, PW-16S, PW-15D & PW-18) located across the Deep River from the site. Ground water samples were also collected from 4 piezometers in the Deep River. Surface water sampling was conducted at a total of 11 surface water stations including 2 stations on the Northern Intermittent Stream, 3 stations on the Southern Intermittent Stream and 6 stations on the Deep River. The sampling procedures were in accordance with the specifications provided in the project Sampling and Analysis Plan (Geraghty & Miller, 1995). The ground water and surface water samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260. In addition to the VOC analyses, samples were collected from 18 monitor wells to be analyzed for natural attenuation parameters (dissolved oxygen, nitrate, iron (II), sulfate, redox potential, chloride and total organic carbon). The monitoring locations and analytical methods are listed in Appendix B.

Water levels were measured at 70 monitor wells, 4 piezometers and 2 surface water stations. The sampling and gauging locations are shown on Figures 2 and 7A. Laboratory data sheets are presented in Appendix C.

2.1 *GROUND WATER*

Ground water elevation contour maps are presented in Figure 4A for the saprolite aquifer and in Figure 4B for the bedrock aquifer. As indicated in Figure 4A, the occurrence of the saprolite aquifer at the site is limited to areas near the intermittent streams and the Deep River. The ground water level data are summarized in Tables 1 and 2.

In the saprolite aquifer, the general ground water flow direction from the former Seaboard Chemical site is northeastward toward the Southern Intermittent Stream and toward the Deep River. The horizontal hydraulic gradient in the saprolite aquifer as measured between saprolite monitor wells PW-8S and MW-8 in September 2003 is 0.02 feet/feet. In the shallow bedrock aquifer, the general ground water flow direction from the former Seaboard Chemical site is also northeastward toward the Deep River. The horizontal hydraulic gradient in the shallow bedrock aquifer as measured between bedrock monitor wells W-6A and OW-DR2 in September 2003 is 0.04 feet/feet. In the area across (north and east of) the Deep River, water elevation data for the Deep River, PW-19 and other monitor wells located across the Deep River indicate that the hydraulic gradient is southward to southwestward toward the Deep River.

Upon completion of the field activities and review of the field data, it was noted that the depth-to-ground water measurements collected at off-site monitor wells PW-18 and PW-19 on September 11 were inconsistent with the historical water level data (see Table 1). Based on comparison to historical data, the September 11 ground water levels measured at PW-18 and PW-19 are considered to be anomalously low and erroneous. On November 24, the ground water level at PW-19 was measured again and found to be more consistent with the historical water levels. The ground water level at PW-18, located on the Crutchfield property, was not measured on November 24 because of property access restrictions. The September 11 water levels at PW-18 and PW-19 were not used

to construct the ground water elevation contour map of the shallow bedrock aquifer (Figure 4B).

The vertical hydraulic gradient in the vicinity of the former Seaboard Chemical site as measured between monitor wells W-6B and W-6A in September 2003 is 0.03 feet/feet downward. The vertical hydraulic gradient in the vicinity of the Deep River as measured between monitor wells PW-6I and PW-6D in September 2003 is 0.02 feet/feet upward. The vertical hydraulic gradient in the area across (north of) the Deep River as measured between monitor wells PW-15S and PW-15D in September 2003 is also upward (0.005 feet/feet).

The distributions of 1,2-dichloroethane (1,2-DCA), vinyl chloride, chlorobenzene, 1,4-dioxane, and total VOCs are used to present the extent of the VOC-affected ground water at the site. The horizontal extent of these compounds in ground water is shown on Figures 5A through 5E for the saprolite aquifer and in Figures 6A through 6E for the bedrock aquifer. The analytical results for total 1,4-dioxane and total VOCs in ground water samples collected from the streambed piezometers in the Deep River are shown in Figures 7A and 7B, respectively. Three hydrogeologic cross sections were prepared for the site at locations shown on Figure 8. The subsurface hydrogeology and the vertical distribution of affected ground water is shown in the hydrogeologic cross sections which are presented in Figures 8AA, 8BB and 8CC. The historical ground water analytical results for VOCs are summarized in Table 3A for the monitor wells and Table 3B for the streambed piezometers. The ground water analytical results for natural attenuation parameters are presented in Table 4. Field parameter measurements are presented in Table 5.

The main mass of VOC-affected ground water extends from the former Seaboard Chemical facility to the northeast where it intersects the Deep River valley. VOCs are detected in a limited area across (north and east of) the Deep River from the site. VOC concentrations above the North Carolina ground water quality standards were detected at off-site bedrock monitor wells PW-15D and PW-16D and off-site saprolite monitor well PW-15S, each located within 150 feet north of the river and within the river floodplain. At off-site monitor well PW-19, located on an upland area approximately 600 feet across (east of) the Deep River from the site, no detectable levels of VOCs were detected in the ground

water samples. At off-site monitor well PW-18, located on an upland area approximately 750 feet across (north of) the Deep River from the site, detectable levels of VOCs (acetone and xylene) were present in the ground water sample at levels below the respective North Carolina ground water quality standards. At off-site monitor well PW-17, located south of the site across Riverdale Drive, no VOCs were detected in the September 2003 ground water sample.

The analytical results of ground water samples collected from the 4 streambed piezometers are indicative of the quality of ground water discharging to the Deep River. At piezometers DRP-2, DRP-4 and DRP-11, only 1,4-dioxane was detected at levels above the North Carolina ground water quality standards in the September - October 2003 samples. The VOC concentrations detected at DRP-2 in September 2003 are substantially lower than the historical VOC concentrations at DRP-2. Piezometers DRP-2 and DRP-4 are located in the east-west segment of the river where the main mass of VOC-affected ground water is intercepted. Piezometers DRP-2 and DRP-4 are also located where the PW-5D fault and the Deep River fault intersect the Deep River. The faults are considered to be preferred contaminant migration pathways at the site. The DRP-11 streambed piezometer is located approximately 3,500 feet downstream of the site. No VOCs were detected in the sample collected at piezometer DRP-10, located approximately 1,400 feet downstream of DRP-4.

The historical ground water analytical data demonstrate that natural biodegradation of the chlorinated VOCs in ground water is taking place at the site. Based on the analytical results of ground water samples for natural attenuation parameters (Table 4), the most favorable geochemical conditions for natural degradation of chlorinated VOCs appear to occur at well locations near the Deep River, particularly at monitor wells MW-12B, OW-DR3, OW-DR4, PW-5D, PW-6D, PW-6I and PW-7I.

A direct indication of natural attenuation of the chlorinated VOCs is the occurrence of degradation (daughter) products of perchloroethene (PCE), one of the primary constituents at the site. The most important process for the natural degradation of PCE and other chlorinated solvents is reductive dechlorination (USEPA, 1997). Generally the process transforms PCE to trichloroethene (TCE), TCE to 1,1-dichloroethene (1,1-DCE), 1,1-DCE to vinyl

chloride, and vinyl chloride to ethene. With time, the ratio of the breakdown (daughter) product concentration to the original (parent) solvent concentration will change as natural attenuation proceeds. Generally there is an increase in the ratio as the parent is transformed into the daughter products. The ratios of the total daughter products (TDP) to PCE concentrations for selected monitor wells along the main VOC plume at the site are summarized below.

Monitor Well	**Distance from Seaboard Chemical Facility (Ft)**	**Sampling Date**	**TDP:PCE**
W-5	50	9-17-03	13
PW-4I	370	10-22-03	28
OW-DR4	950	9-22-03	215

The TDP:PCE ratios generally increase away from the Seaboard Chemical facility (toward the river) where the oldest, downgradient portion of the VOC plume is located. The increase in TDP:PCE ratios downgradient along the VOC plume is a direct indicator that natural attenuation processes are actively degrading the chlorinated solvents at the site.

2.2 *SURFACE WATER*

Surface water sampling was conducted on September 15 -16, 2003. The total VOC concentrations (EPA Method 8260) and 1,4-dioxane concentrations in the surface water samples are presented in Figures 9A and 9B, respectively. The surface water analytical results for VOCs are summarized in Table 7 and laboratory reports are presented in Appendix C. Surface water elevation data are presented in Table 2.

Deep River

For the surface water samples collected in September 2003 from the Deep River, no VOCs were detected in 5 of the 6 sampling stations. The only detected VOC was 1,4-dioxane at station SW-DRP-11, located approximately 4,500 feet downstream of the site. The 1,4-

dioxane concentration at SW-DRP-11 exceeded the respective North Carolina surface water quality standard. Because there were no VOCs detected in the 4 surface water samples collected along a 2,700-foot segment of the Deep River adjacent to the site between station SW-DRP-2 and SW-7, it is unlikely that the site is the source of the 1,4-dioxane detected in the downstream Deep River surface water sample at SW-DRP-11.

Under the approved monitoring plan, the annual surface water monitoring event is preferably conducted during low flow conditions at the site. During low flow conditions, streamflow is sustained entirely by ground water discharging to streams (no rainfall runoff). For the site monitoring program, low flow is defined ideally as equal to or less than the estimated 7Q10 flow of 4.7 cubic feet per second (cfs) for the Deep River at the site (USGS, 1992), or as close to the 7Q10 flow as practical based on actual hydrological conditions during the year. During 2003, rainfall amounts in North Carolina have been above average. Consequently, low flow conditions did not exist during the September 2003 surface water monitoring event. During the September 2003 monitoring event, the stage of the Deep River was high enough to prevent the manual measurement of the river discharge (total flow) at the site due to logistical and safety concerns. An indication of the range of flow in the Deep River during the 2003 monitoring event is provided by reviewing flow data from the nearest USGS stream gauges located upstream and downstream of the site. The USGS stream gauge data are summarized below.

Deep River Discharge (Total Flow) Data:

Date	USGS Stream Gauge Location			
	East Fork Deep River Near High Point (#02099000) 6 Miles North (Upstream) of Site		Deep River Near Randleman (#02099500) 5 Miles Southeast (Downstream) of Site	
	Mean Gauge Height (feet)	Mean Streamflow (ft^3/sec)	Mean Gauge Height (feet)	Mean Streamflow (ft^3/sec)
9/15/03	2.46	**6.9**	2.54	**36**
9/16/03	2.44	**6.2**	2.65	**47**
9/17/03	2.43	**5.7**	2.92	**76**
9/18/03	3.64	**147**	3.81	**291**
9/19/03	3.39	**75**	6.89	**978**
9/20/03	2.72	**19**	3.82	**251**
9/21/03	2.57	**11**	3.28	**131**
9/22/03	2.91	**50**	3	**85**
9/23/03	7.13	**NR**	18.03	**5,320**
10/20/03	2.55	**6**	2.44	**39**
10/21/03	2.56	**6.6**	2.44	**38**
10/22/03	2.57	**6.7**	2.43	**37**

NR = No record
Source: USGS Water Resources of North Carolina
Ft^3/sec = cubic feet per second

Based on the nearby stream gauge data, the surface water samples collected in September 2003 were obtained during a period when the flow of the Deep River was greater than 7Q10 flow conditions. By comparison, the estimated Deep River flow of September 15, 2003 is greater than the flow measurements during the previous annual monitoring events (4.5 cfs measured on September 25, 2002 and 0.7 cfs measured on September 9, 2001). The stream gauge data also indicate the high flow which occurred in the Deep River as a result of heavy rainfall on September 23, 2003 which resulted in flooding at the site.

The September 2003 surface water sample results represent the first time since November 2000 under the annual monitoring program that certain of the site VOC concentrations have not been detected above surface water quality standards in the Deep River adjacent to the site. The exceedance of surface water quality standards in 2001 and 2002 is attributable to the low flow conditions of the Deep River in previous years.

Southern Intermittent Stream

For the Southern Intermittent Stream, certain of the site VOCs were detected in the three surface water samples collected in September 2003. At SW-5, located upstream of the former Seaboard Chemical facility, 1,4-dioxane was detected at a level above the North Carolina surface water quality standard. This is the first time since routine monitoring began in 2000 that any VOCs have been detected in surface water samples collected at SW-5. At SW-3, located just upstream of the piped segment of the stream, 1,4-dioxane, 1,1-DCE, 1,1-DCA, cis,1,2-DCE and methylene chloride were detected at levels above the North Carolina surface water quality standards. At SW-4, located 90 feet upstream from the Deep River, 1,4-dioxane was the only compound detected at levels above the North Carolina surface water quality standards. The concentration of 1,4-dioxane in the Southern Intermittent Stream decreased from station SW-3 (202 ug/l) located upstream of the landfill to station SW-4 (118 ug/l) located downstream of the landfill. In previous monitoring years, the concentration of 1,4-dioxane increased from station SW-3 to station SW-4.

Because of the shallow depth of the streamflow of the Southern Intermittent Stream (typically 2 inches or less), stream discharge measurements are difficult to obtain without a weir and have not been collected.

Northern Intermittent Stream

For the Northern Intermittent Stream, certain of the site VOCs were detected in September 2003 at SW-2 located immediately downstream of the piped segment of the stream. At SW-2, 1,4-dioxane was the only compound detected at levels above the North Carolina surface water quality standards. No detectable levels of any VOCs were present at SW-1, located upstream of the landfill.

Because of the shallow depth of the streamflow of the Northern Intermittent Stream (typically 2 inches or less), stream discharge measurements are difficult to obtain without a weir and have not been collected.

3.0 *SUMMARY OF FINDINGS*

The major findings of the annual ground water and surface water monitoring activities for September - October 2003 at the Seaboard Chemical/Riverdale Drive Landfill site include the following:

- Streamflow conditions during the September 2003 surface water sampling event represented moderate flow conditions. The flow of the Deep River at the site on September 15, 2003 was not manually measured due to the relatively high stage of the river. Data from USGS stream gauges located upstream and downstream of the site indicate that the Deep River flow at the site on September 15 was between 7 and 36 cfs. The September 15, 2003 streamflow estimate is greater than the estimated 7Q10 flow for the Deep River (4.7 cfs) and is higher than the measured flow of the Deep River during the annual monitoring events conducted in September 2001 (0.7 cfs) and September 2002 (4.5 cfs). A 7Q10 flowrate for the Southern Intermittent Stream and Northern Intermittent Stream cannot be determined because of a lack of historical flow data for the streams. The flow conditions in the intermittent streams during the September 2003 sampling event are presumed to be above 7Q10 flow based on the flow in the Deep River.

- In September 2003, 1,4-dioxane was detected at levels above the North Carolina surface water quality standard (3 ug/L) at one surface water sampling location in the Deep River, three locations in the Southern Intermittent Stream and one location in the Northern Intermittent Stream. The only concentration of 1,4-dioxane (53.5 ug/l) in the Deep River in September 2003 was detected at sampling station SW-DRP-11 located approximately 4,500 feet downstream of the site boundary. Considering the absence of 1,4-dioxane in the three Deep River surface water samples collected adjacent to the site, and the distance between

the site and SW-DRP-11, it would not appear that the 1,4-dioxane detected in the Deep River at SW-DRP-11 is related to the VOC plume at the site.

1,4-dioxane was not detected at any of the three sampling stations in the Deep River located adjacent to the site in September 2003. The absence of detectable levels of 1,4-dioxane in the Deep River at the site is attributed to the river discharge (flow) conditions. During periods of moderate stream discharge in the Deep River, the 1,4-dioxane concentrations in the ground water and surface water discharges from the site are attenuated by dilution from upstream flow in the river.

- In the segment of the Southern Intermittent Stream located upstream of the landfill, the concentrations of 1,4-dioxane increase from 12.4 ug/L at SW-5 to 202 ug/L at SW-3. The occurrence of 1,4-dioxane in the upstream segment of the stream is attributed to the elevated concentrations of 1,4-dioxane which are present in the ground water discharge from the area south of the stream where the Seaboard Chemical site is located and from the area north of the stream where the Soil Residue Mound is located.

- In the Southern Intermittent Stream, the concentrations of 1,4-dioxane were lower at SW-4 located downstream of the landfill than at SW-3 located upstream of the landfill. This is contrary to previous years when the 1,4-dioxane concentrations were higher downstream of the landfill.

- Based on the absence of VOCs in the ground water sample collected from off-site monitor well PW-19 (former Stone property), there is no VOC-affected ground water east of the Deep River in the area of PW-19. Based on historical ground water analytical results, the eastward extent of VOC-affected ground water in the area north of the Deep River is determined to be located between PW-16D and PW-19.

- Based on the concentrations and types of VOCs in the ground water sample collected from off-site monitor well PW-18 (Crutchfield property), and considering the regional ground water flow direction toward the river, the VOCs (acetone at 195 ug/L and xylenes at 9 ug/L) detected in the ground water sample from off-site monitor well PW-18 are not characteristic

of the VOC-affected ground water from the site. The VOCs detected at PW-18 are considered to be unrelated to the VOC plume at the site and are attributed to an unknown off-site source area. Based on historical ground water analytical results, the northern extent of site-related VOC-affected ground water in the area north of the Deep River is determined to be located between PW-16D and PW-18.

- The ground water elevation data demonstrate that ground water flows towards the Deep River on both the north and south sides of the east-west segment of the river. The ground water flow pattern (Figures 4A & 4B) confirms that the river serves as the regional ground water discharge zone.

- The geometry of the main VOC plume extends to and along the east-west segment of the river (Figure 6E). On the east side of the river, no detectable levels of VOCs were detected in the ground water sample collected from PW-19 located 600 feet east (upgradient) of the river. The VOCs detected in September 2003 in the ground water at PW-18, located 750 feet north of the Deep River, are considered to be unrelated to the VOC plume at the site. The VOCs detected on the north side of the river in three of the monitor wells (PW-15S, PW-15D & PW-16D) located immediately adjacent to (within 100 feet of) the river are considered to be related to the VOC plume at the site. The ground water quality data on the north side of the river indicate that the main VOC mass from the site is migrating to the river channel and along fracture zones beneath the river valley bottom which contains the channel.

- The vertical distribution of VOCs at the east-west segment of the river (Figures 8BB & 8CC) indicate a VOC plume extending upward from the fractured bedrock aquifer to the riverbed. At streambed piezometer DRP-2, only one VOC (1,4-dioxane) was detected in the September 2003 ground water sample at a concentration above the North Carolina ground water quality standard. The September 2003 concentrations of VOCs at DRP-2 are substantially lower than the concentrations detected in previous monitoring years. In previous years, the VOC concentrations at DRP-2 (TD = 3.7 ft bgl) have been similar to the concentrations detected at depth in nearby bedrock monitor wells PW-5D (TD = 306 ft bgl) and OW-DR4 (165 ft bgl), indicating a migration pathway to the river. The lower VOC

concentrations in streambed piezometer DRP-2 in September 2003 may indicate a greater depth of dilution by surface water within the streambed zone due to the higher stage of the river compared to previous years when low flow conditions occurred in the Deep River.

- At stream piezometer DRP-4, located in the east-west segment of the Deep River, 1,4-dioxane was detected at a level above the North Carolina ground water quality standard. At stream piezometer DRP-10, located approximately 400 feet downstream (south) of the east-west segment of the river, no detectable levels of any VOCs were present in the ground water sample collected in October 2003. These data are consistent with the historical analytical results at DRP-4 and DRP-10.

- At stream piezometer DRP-11, located approximately 4,500 feet downstream of the site, 1,4-dioxane was detected at a level above the North Carolina ground water quality standard. Given the distance between the site and DRP-11, it would not appear that the 1,4-dioxane detected in the shallow ground water at DRP-11 is related to the VOC plume at the site.

- The ground water analytical data from the September - October 2003 and previous monitoring events indicate that natural biodegradation of the chlorinated VOCs in ground water is taking place at the site. The TDP:PCE ratios increase toward the river where the oldest, downgradient portion of the VOC plume is located. The increase in TDP:PCE ratios downgradient along the VOC plume is a direct indicator that natural attenuation processes are actively degrading the chlorinated solvents at the site.

4.0 *REFERENCES*

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TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-1	57.71	47.71-57.71	743.98-733.98	789.40	791.69	11/14/2000	27.28	764.41
						9/4/2001	27.99	763.70
						9/17/2002	29.55	762.14
						9/11-12/03	23.86	767.83
MW-2A	19	4-19	709.9-694.9	711.80	713.90	11/14/2000	13.46	700.44
						9/4/2001	17.43	696.47
						9/17/2002	10.25	703.65
						9/11-12/03	10.60	703.30
MW-2B	30	30	681.0	711.00	712.57	11/14/2000	12.78	699.79
						9/4/2001	13.01	699.56
						9/17/2002	10.61	701.96
						9/11-12/03	10.62	701.95
MW-2C	48	28-48	685.56-665.56	711.40	713.56	11/14/2000	16.12	697.44
						9/4/2001	14.02	699.54
						9/17/2002	18.41	695.15
						9/11-12/03	12.78	700.78
MW-3A	27	12-27	682.4-667.4	692.74	694.40	11/14/2000	19.62	674.78
						9/4/2001	21.03	673.37
						9/17/2002	20.22	674.18
						9/11-12/03	16.74	677.66
MW-3B	38.83	28.83-38.83	664.76-954.76	692.32	693.59	11/14/2000	19.46	674.13
						9/4/2001	21.00	672.59
						9/17/2002	20.00	673.59
						9/11-12/03	16.32	677.27
MW-3C	57	47-57	647.22-637.22	691.90	694.22	11/14/2000	19.51	674.71
						9/4/2001	21.12	673.10
						8/19/2002	20.57	673.65
						9/16/2002	20.00	674.22
						9/11-12/03	16.47	677.75
MW-4	30	20-30	664.72-654.72	683.20	684.72	11/14/2000	12.22	672.50
						9/4/2001	14.18	670.54
						9/16/2002	12.71	672.01
						9/11-12/03	10.62	674.10
MW-5	30	20-30	664.4-654.4	682.00	684.40	11/14/2000	12.89	671.51
						9/4/2001	14.69	669.71
						9/16/2002	13.81	670.59
						9/11-12/03	9.23	675.17
MW-6	110	100-110	661.73-651.73	759.60	761.73	11/14/2000	65.92	695.81
						9/4/2001	66.49	695.24
						9/17/2002	67.21	694.52
						9/11-12/03	59.32	702.41
MW-7A	35	15-35	726.64-706.64	739.42	741.64	11/14/2000	31.10	710.54
						9/4/2001	32.34	709.30
						9/17/2002	35.73	705.91
						9/11-12/03	22.61	719.03

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-7B	68	58-68	682.16-672.16	738.50	740.16	11/14/2000	33.90	706.26
						9/4/2001	33.15	707.01
						9/17/2002	38.12	702.04
						9/11-12/03	24.53	715.63
MW-8	33	13-33	721.16-701.16	731.80	734.16	11/14/2000	>30.70*	-
						9/4/2001	>30.70*	-
						9/17/2002	>30.70*	-
						9/11-12/03	20.49	
MW-9	32	12-32	676.95-656.95	685.95	688.95	11/14/2000	12.36	676.59
						9/4/2001	13.53	675.42
						9/16/2002	13.48	675.47
						9/11-12/03	8.15	680.80
MW-10	28	8-28	687.62-667.62	693.60	695.62	11/14/2000	16.91	678.71
						9/4/2001	18.61	677.01
						9/16/2002	17.64	677.98
						9/11-12/03	13.78	681.84
MW-11	68	53-68	695.42-680.42	746.26	748.42	11/14/2000	38.24	710.18
						9/4/2001	38.50	709.92
						8/19/2002	41.06	707.36
						9/16/2002	40.65	707.77
						9/11-12/03	28.97	719.45
MW-12A	20	5-20	688.96-673.96	691.12	693.96	11/14/2000	15.66	678.30
						9/4/2001	15.87	678.09
						9/16/2002	15.62	678.34
						9/11-12/03	11.08	682.88
MW-12B	58	48-58	647-637	691.70	695.00	11/14/2000	16.49	678.51
						9/4/2001	16.92	678.08
						9/16/2002	16.65	678.35
						9/11-12/03	12.72	682.28
MW-12D	202	187-202	507.93-492.93	691.81	694.93	11/14/2000	>101.50**	<593
						9/4/2001	48.12	646.81
						9/16/2002	47.59	647.34
						9/11-12/03	46.06	648.87
MW-14	35	20-35	746.22-731.22	763.80	766.22	11/14/2000	28.42	737.80
						9/4/2001	29.33	736.89
						9/17/2002	Inaccessible	Not available
						9/11-12/03	25.38	740.84
MW-15A	34	19-34	731.34-746.34	762.5	765.34	9/4/2001	26.70	738.64
						9/17/2002	21.40	743.94
						9/11-12/03	NM	

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
MW-16	45	30-45	749.13-734.13	779.00	779.13	11/14/2000	34.18	744.95
						9/4/2001	Inaccessible	-
						9/17/2002	Inaccessible	-
						9/11-12/03	Inaccessible	
MRF-1	43.5	28.5-43.5	723.31-708.31	752.10	751.81	11/14/2000	8.45	743.36
						9/4/2001	8.48	743.33
						9/17/2002	8.56	743.25
						9/11-12/03	7.40	744.41
MRF-2	41.5	26.5-41.5	724.23-709.23	751.00	750.73	11/14/2000	26.06	724.67
						9/4/2001	26.18	724.55
						9/17/2002	26.10	724.63
						9/11-12/03	24.28	726.45
OW-DR1	165	49-165	648.95-532.95	695.39	697.95	11/14/2000	23.21	674.74
						9/4/2001	24.72	673.23
						9/16/2002	23.80	674.15
						9/11-12/03	20.21	677.74
OW-DR2	186	176-186	518.4-508.4	692.61	694.40	11/14/2000	19.72	674.68
						9/4/2001	21.33	673.07
						8/19/2002	20.75	673.65
						9/16/2002	20.25	674.15
						9/11-12/03	16.60	677.80
OW-DR3	160	77-160	626.52-543.52	703.52	704.75	8/19/2002	30.79	673.96
						9/16/2002	30.40	674.35
						9/11-12/03	27.80	-27.80
OW-DR4	165	45 - 165	667.70-547.70	712.70	713.85	8/19/2002	40.15	673.70
						9/16/2002	39.72	674.13
						9/11-12/03	36.25	
PW-DR1	185	38-185	657.21-510.21	693.62	695.21	11/14/2000	20.51	674.70
						9/4/2001	21.90	673.31
						8/19/2002	21.48	673.73
						9/16/2002	21.02	674.19
						9/11-12/03	17.51	677.70
PW-1D	81.5	66.5-81.5	717.18-702.18	781.90	783.68	11/14/2000	54.92	728.76
						9/4/2001	54.60	729.08
						9/17/2002	54.65	729.03
						9/11-12/03	47.49	
PW-2D	101	80-100	700.55-680.55	778.80	780.55	11/14/2000	45.43	735.12
						9/4/2001	45.16	735.39
						9/17/2002	Damaged	-
						9/11-12/03	Damaged	
PW-3D	209.5	179.5-209.5	578.84-548.84	756.60	758.34	11/14/2000	56.60	701.74
						9/4/2001	Damaged	-
						9/16/2002	58.62	699.72
						9/11-12/03	Damaged	

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-4I	122	112-122	625.67-615.67	735.17	755.14	11/14/2000	43.39	711.75
						9/4/2001	44.73	710.41
						9/17/2002	45.94	709.20
						9/11-12/03	36.04	719.10
PW-5D	306.5	272-282	425.87-415.87	695.07	697.87	11/14/2000	23.52	674.35
						9/4/2001	24.04	673.83
						8/19/2002	24.54	673.33
						9/16/2002	23.86	674.01
						9/11-12/03	20.37	677.50
PW-6I	76	65-76	619.19-608.19	682.27	684.19	11/14/2000	11.80	672.39
						9/4/2001	13.98	670.21
						8/19/2002	12.81	671.38
						9/16/2002	12.35	671.84
						9/11-12/03	11.20	672.99
PW-6D	275	260-275	424.77-409.77	682.22	684.77	11/14/2000	11.01	673.76
						9/4/2001	12.58	672.19
						8/19/2002	12.07	672.70
						9/16/2002	11.57	673.20
						9/11-12/03	7.87	676.90
PW-7I	101	90-100	594.92-584.92	683.42	684.92	11/14/2000	12.90	672.02
						9/4/2001	14.58	670.34
						6/16/2002	12.81	672.11
						8/19/2002	13.28	671.64
						9/16/2002	12.81	672.11
						9/11-12/03	11.69	673.23
PW-8S	48	35-45	728.13-718.13	761.23	763.13	11/14/2000	42.30	720.83
						9/4/2001	45.10	718.03
						9/17/2002	47.33	715.80
						9/11-12/03	38.95	724.18
PW-9I	100	80-100	619.07-599.07	698.07	699.07	11/14/2000	21.80	677.27
						9/4/2001	22.95	676.12
						9/16/2002	22.74	676.33
						9/11-12/03	18.04	681.03
PW-10I	100	80-100	616.44-596.44	695.34	696.44	11/14/2000	17.24	679.20
						9/4/2001	19.08	677.36
						9/16/2002	18.30	678.14
						9/11-12/03	14.57	681.87
PW-10D	200	185-200	512.75-497.75	695.48	697.96	11/14/2000	>101.50**	-
							39.20	658.76
						9/16/2002	46.45	651.51
						9/11-12/03	NM	
PW-11I	90	75-90	710.45-695.45	784.38	785.45	11/14/2000	57.55	727.90
						9/4/2001	58.00	727.45
						9/17/2002	58.77	726.68
						9/11-12/03	53.81	731.64

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-12I	105	90-105	660.54-645.54	748.07	750.54	11/14/2000	29.09	721.45
						9/4/2001	32.36	718.18
						2/16/2002	36.25	714.29
						9/16/2002	36.25	714.29
						9/11-12/03	26.18	724.36
PW-13I	250	235-250	504.9-489.9	736.58	739.90	11/14/2000	67.65	672.25
						9/4/2001	69.68	670.22
						8/19/2002	68.50	671.40
						9/17/2002	68.12	671.78
						9/11-12/03	66.59	673.31
PW-14D	198.8	183.8-198.8	505.33-490.33	686.38	689.13	10/31/2000	16.24	672.89
						12/20/2000	>150	-
						9/5/2001	76.98	612.15
						9/17/2002	64.16	624.97
						9/11-12/03	6.51	682.62
PW-14S	21.5	11.5-21.5	677.09-667.09	685.96	688.59	10/30/2000	13.19	675.40
						12/20/2000	13.47	675.12
						9/5/2001	14.28	674.31
						9/17/2002	14.55	674.04
						9/11-12/03	14.92	673.67
PW-15D	163.5	153.5-163.5	533.93-523.93	684.85	687.43	10/31/2000	13.25	674.18
						12/20/2000	13.32	674.11
						9/5/2001	14.79	672.64
						9/17/2002	13.81	673.62
						9/11-12/03	10.13	677.30
PW-15S	21.5	11.5-21.5	676.71-666.71	685.88	688.21	10/30/2000	14.87	673.34
						12/20/2000	14.91	673.30
						9/5/2001	16.26	671.95
						9/17/2002	15.42	672.79
						9/11-12/03	11.61	676.60
PW-16D	179	169-179	515.98-505.98	681.46	684.98	10/31/2000	10.94	674.04
						12/20/2000	10.95	674.03
						9/5/2001	12.43	672.55
						9/17/2002	11.51	673.47
						9/11-12/03	7.88	677.10
PW-16S	12.5	5.5-12.5	677.67-670.67	680.97	683.17	10/30/2000	8.00	675.17
						12/20/2000	7.39	675.78
						9/5/2001	9.82	673.35
						9/17/2002	9.65	673.52
						9/11-12/03	6.56	676.61
PW-17	100	85 - 100	686.0 - 671.0	771.0	774.7	11/14/2000	43.25	731.45
						12/20/2000	43.96	730.74
						9/5/2001	45.55	729.15
						9/16/2002	49.34	725.36
						9/11-12/03	37.64	737.06
PW-18 (TD = 225 ft)	225	210 - 225	525.4 - 510.4	735.4	737.8	11/9/2000	110.06	627.74
						12/7/2000	57.23	680.57
						12/14/2000	57.28	680.52
						12/20/2000	57.27	680.53
						9/5/2001	58.50	679.30
						9/02	Inaccessible	-
						9/11-12/03	86.31?	Suspect data

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
PW-19	260	235-250	516.6 - 501.6	751.6	754.1	11/5/2001	75.70	678.40
						9/17/2002	60.16	693.94
						9/11-12/03	94.56?	Suspect data
						11/24/2003	52.75	701.35
W-1	64.7	53.7-64.7	719.05-708.05	772.20	772.75	11/14/2000	42.08	730.67
						9/4/2001	24.12	748.63
						9/17/2002	48.07	724.68
						9/11-12/03	36.39	736.36
W-2	35	23-35	703-691	723.30	726.00	11/14/2000	16.51	709.49
						9/4/2001	17.33	708.67
						9/17/2002	18.35	707.65
						9/11-12/03	12.62	713.38
W-4	19	9-19	703.64-693.64	710.30	712.64	11/14/2000	9.49	703.15
						9/4/2001	9.84	702.80
						9/17/2002	8.57	704.07
						9/11-12/03	6.71	705.93
W-4A	38.5	28.5-38.5	684.75-674.75	712.00	713.25	11/14/2000	9.77	703.48
						9/4/2001	10.12	703.13
						9/17/2002	9.00	704.25
						9/11-12/03	7.58	705.67
W-4B	50	52.7		711.70	713.93	11/14/2000	10.71	703.22
						9/4/2001	11.11	702.82
						9/17/2002	10.27	703.66
						9/11-12/03	NM	
W-5	60	50-60	702.06-692.06	750.86	752.06	11/14/2000	32.28	719.78
						9/4/2001	33.84	718.22
						9/17/2002	38.61	713.45
						9/11-12/03	26.85	725.21
W-6	57	42-57	701.8-686.8	742.17	743.80	11/14/2000	30.43	713.37
						9/4/2001	31.59	712.21
						9/17/2002	35.47	708.33
						9/11-12/03	22.78	721.02
W-6A	90	80-90	664.9-654.9	742.91	744.90	11/14/2000	32.45	712.45
						9/4/2001	33.70	711.20
						9/17/2002	36.67	708.23
						9/11-12/03	24.62	720.28
W-6B	35	20-35	724.39-709.39	743.13	744.39	11/14/2000	29.75	714.64
						9/4/2001	30.98	713.41
						9/17/2002	33.71	710.68
						9/11-12/03	22.34	722.05
W-13	20	10-20	744.4-734.7	752.40	754.70	11/14/2000	DRY	-
						9/4/2001	DRY	-
						9/17/2002	DRY	-
						9/11-12/03	24.25	730.45

TABLE 1
GROUND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

MONITOR WELL I.D.	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	GROUND ELEVATION (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)
W-16						9/17/2002	29.73	
						9/11-12/03	NM	
W-21	33.4	33.4	684.78	716.00	718.18	11/14/2000	15.73	702.45
						9/4/2001	16.41	701.77
						9/17/2002	17.15	701.03
						9/11-12/03	14.00	704.18
W-23A	75	65-75	707.66-697.66	770.18	772.66	11/14/2000	41.41	731.25
						9/4/2001	42.91	729.75
						9/17/2002	45.30	727.36
						9/11-12/03	31.29	741.37
W-23B	55	40-55	731.89-716.89	769.60	771.89	11/14/2000	41.00	730.89
						9/4/2001	42.37	729.52
						9/17/2002	44.54	727.35
						9/11-12/03	31.29	740.60
W-24	60	45-60	721.14-706.14	765.80	766.14	11/14/2000	40.45	725.69
						9/4/2001	42.61	723.53
						9/17/2002	Damaged	-
						9/11-12/03	Damaged	-
W-25	58	43-58	727.27-712.27	770.80	770.27	11/14/2000	40.58	729.69
						9/4/2001	42.47	727.80
						9/17/2002	46.25	724.02
						9/11-12/03	35.75	734.52
W-26	53	38-53	721.65-706.65	759.20	759.65	11/14/2000	Inaccessible	-
						9/4/2001	Inaccessible	-
						9/17/2002	40.62	719.03
						9/11-12/03	Inaccessible	-
W-27	58.5	43.5-58.5	721.7-706.7	765.50	765.20	11/14/2000	39.86	725.34
						9/4/2001	41.37	723.83
						9/17/02	Inaccessible	-
						9/11-12/03	Inaccessible	-
W-29	49.5	34.5-49.5	715.69-700.69	750.74	750.19	11/14/2000	28.22	721.97
						9/4/2001	29.68	720.51
						9/17/2002	28.01	722.18
						9/11-12/03	Inaccessible	-
W-30	53	38-53	722.77-707.77	761.00	760.77	11/14/2000	34.47	726.30
						9/4/2001	36.59	724.18
						9/17/2002	40.16	720.61
						9/11-12/03	30.37	730.40

NM = Not measured
BGL = Below ground level
MSL = Mean sea level
BTOC = Below top of well casing
* = Depth to groundwater below top of dedicated pump in well (30.70').
** = Depth to groundwater exceeds length of water level indicator tape (101.50').

TABLE 2
STREAMBED PIEZOMETER CONSTRUCTION AND WATER ELEVATION DATA
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

PIEZOMETER I.D.	DATE INSTALLED	TOTAL DEPTH (feet BGL)	SCREENED INTERVAL Depth (feet BGL)	SCREENED INTERVAL Elevation (feet MSL)	TOP OF CASING ELEVATION (feet MSL)	GAUGING DATE	DEPTH TO GROUND WATER (feet BTOC)	GROUND WATER ELEVATION (feet MSL)	DEPTH TO SURFACE WATER (feet BTOC)	SURFACE WATER ELEVATION (feet MSL)	VERTICAL HYDRAULIC GRADIENT* (feet)
Southern Intermit. Stream											
SW-3	1997	2.5	2.0 - 2.5	-	-	11/14/2000	4.43	--	4.25	--	-0.18
(SIS - Upstream of piped segment at Seaboard)						9/4/2001	4.01	--	Dry	--	--
							NM				
Deep River											
DRP-2	11/1/2000	3.7	2.5 - 3.6	669.2 - 668.1	674.2	11/14/2000	1.82	672.38	1.76	672.44	-0.06
(Deep River - 170 ft upstream of SIS)					(2.5 ' stickup)	9/4/2001	4.35	669.85	Dry	--	--
						10/3/2001	3.54	670.66	Dry	--	--
						9/24/2002	2.54	671.66	Dry		
						9/11-12/03	2.48	671.72	2.45	671.75	-0.03
DRP-4	11/1/2000	3.5	2.4 - 3.4	672.5 - 671.5	677.7	11/14/2000	2.33	675.37	2.08	675.62	-0.25
(Deep River - 120 ft downstream of SIS)					(2.8' stickup)	9/13/2001	5.29	672.41	Dry	--	--
						10/3/2001	3.45	674.25	Dry	--	--
DRP-40	9/13/2001	2.4	1.4-2.4			9/14/2001	4.09	-4.09	Dry	--	--
(Deep River - 500 ft downstream of SIS)					(3.4' stickup)	10/3/2001	3.08	-3.08	3.14	--	0.06
DRP-50	9/13/2001	3.1	2.1-3.1			10/3/2001	2.59	-2.59	2.64	-2.64	0.05
(Deep River - 850 ft downstream of SIS)					(3.1' stickup)						
DRP-10	11/1/2000	3.7	2.7 - 3.6	668.6 - 667.7	673.8	11/14/2000	2.36	671.44	1.84	671.96	-0.52
(Deep River - 1300 ft downstream of SIS)					(2.5' stickup)	9/13/2001	4.56	669.24	Dry	--	
						10/3/2001	3.49	670.31	Dry	--	
DRP-70	9/13/2001	3.6	2.6-3.6			10/3/2001	1.34	-1.34	1.38	-1.38	0.04
(Deep River - 1600 ft downstream of SIS)					(2.4' stickup)						
DRP-11	11/1/2000	3.9	2.8 - 3.7	668.6 - 667.7	673.6	11/14/2000	2.11	671.49	2.16	671.44	0.05
(Deep River - Above Richland Creek confluence)					(2.2' stickup)	9/13/2001	5.48	668.12	Dry	--	
						10/3/2001	3.24	670.36	Dry	--	
						9/11-12/03	2.23	671.37	2.23	671.37	0.00
Richland Creek											
RCP-1	11/1/2000	2.5	1.4 - 2.4	--	--	11/14/2000	3.84	--	3.97	--	0.13
(Richland Creek - Upstream of WWTP at Seaboard Dike)					(3.9' stickup)						
RCP-2	11/1/2000	3.7	2.7 - 3.6	670.0 - 669.1	675.2	11/14/2000	2.43	672.77	2.35	672.85	-0.08
(Richland Creek - At WWTP and Regional Dike)					(2.5' stickup)						

* Negative value indicates downward vertical gradient; positive value indicates upward vertical gradient

BGL = Below ground level

MSL = Mean sea level

BTOC = Below top of well casing

SIS = Southern Intermittent Stream

TABLE 3A
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2,3-Trichloropropane (ug/l)	1,2-Dibromoethane (ug/l)	1,2-Dichlorobenzene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloropropane (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (P-Dioxane) (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloroform (ug/l)	cis-1,2-Dichloroethene (ug/l)	Dichlorodifluoromethane (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Trichlorofluoromethane (ug/l)	Vinyl Chloride (ug/l)	Xylenes (total) (ug/l)	Other VOCs (ug/l)
MW-3B																														
	7/15/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	4J	120J	ND	3J	14	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/00	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.7	160	NA	<5	28	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	128	<10	<5	12.6	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-3C	8/5/1996	11	ND	150	31	ND	ND	ND	5	ND	3J	NA	ND	6	37	ND	ND	ND	ND	ND	2J	ND	4J	ND	ND	14	ND	13	ND	ND
	1/28/1997	6	ND	92	21	ND	ND	ND	3J	ND	4J	ND	ND	ND	41	14	ND	NA	ND	ND	1J	ND	ND	ND	ND	9	ND	10J	ND	ND
	09/28/00	<5	<5	41	7.2	<5	<5	<5	<5	<5	<5	<100	NA	<5	32	<10	<5	21	<10	<5	<5	<5	<5	37	<5	<5	<10	<10	<10	ND
	9/5/2001	<5	<5	22.6	<5	NA	NA	NA	<5	<5	NA	117	<10	<5	24.2	<10	<5	14.6	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/18/2002	<5	<5	18.4	<5	NA	NA	NA	<5	<5	NA	94.6	<10	<5	27.3	<10	<5	12.0	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	90	<10	<5	13.4	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-6	1/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	4J	ND	ND	2J	ND	ND	ND	ND	4J	ND	ND	ND
	09/28/00	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	40.2	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	24.4	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	15.8	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-9/ DUP-1	1/28/1997	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	1J/2J	ND/ND	ND/ND	ND/ND	NA	ND/ND	ND/ND	ND/ND	ND/1J	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	09/28/00	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	130	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
MW-10	1/27/1997	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	120J	ND	2J	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND	ND
	7/14/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/00	<5	<5	7.6	<5	<5	<5	<5	<5	<5	<5	250	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	335	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	234	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	221	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-11	1/23/1997	5J	ND	4J	3J	ND	ND	ND	ND	ND	9	ND	ND	4J	9	ND	ND	NA	ND	10	ND	2J	ND	ND	ND	ND	ND	ND	2J	1
	09/28/00	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.1	270	NA	8.8	12	<10	<5	<5	<10	<5	7.7	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/10/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	288	<10	10.6	15.3	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/18/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	283	<10	11.1	13.7	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	126
	9/19/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	94.2	<10	7.4	16.8	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-12A	1/23/1997	2J	ND	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND	NA	ND	ND	ND	ND	ND	2J	ND	2J	ND	ND	ND	ND
	7/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	12.3	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/20/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	11.7	14.9	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	11.9	15.6	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-12B	1/23/1997	6	ND	2J	ND	ND	ND	1J	ND	ND	12	ND	ND	ND	8	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	11	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/28/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	510	NA	<5	18	<10	<5	11	<10	<5	28	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	359	<10	<5	12	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/20/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	211	<10	<5	10.2	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	250	<10	<5	12.4	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-12D	9/10/1996	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	9/29/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	120	NA	<5	<5	<10	<5	<5	<10	<5	12	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/20/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	21.9	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	9.5
	10/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
MW-15A	9/5/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	2,640	<10	<5	517	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/18/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	1,500	<10	<5	635	<10	<5	5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/17/2003	<25	<25	<25	<25	NA	NA	NA	<25	<25	NA	1,910	<50	<25	514	<50	<25	<25	NA	<25	<25	NA	<25	<25	<25	<25	NA	<50	<25	ND
MW-117D (Blind Duplicate of MW-12D)	9/28/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND

TABLE 3A
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2,3-Trichloropropane (ug/l)	1,2-Dibromoethane (ug/l)	1,2-Dichlorobenzene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloropropane (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (P-Dioxane) (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloroform (ug/l)	cis-1,2-Dichloroethene (ug/l)	Dichlorodifluoromethane (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Trichlorofluoromethane (ug/l)	Vinyl Chloride (ug/l)	Xylenes (total) (ug/l)	Other VOCs (ug/l)
OW-DR1	9/28/2000	360	<5	4,300	1,000	<5	<5	8.7	150	<5	<5	2,900	NA	150	6,600	3,300	<5	4,100	120	33	310	6.1	18	420	26	14	<10	2,400	210	ND
OW-DR2	7/21/1998	400J	NA	1500D	480J	NA	NA	ND	ND	NA	ND	3400J	ND	150	2900D	1100D	NA	NA	NA	NA	ND	ND	40J	460J	NA	22	NA	ND	250J	910
	9/26/2000	460	<5	4,200	1,400	<5	<5	<5	220	<5	<5	4,900	NA	170	5,600	1,300	<5	3,500	14	25	120	7.6	19	260	77	28	<10	2,800	161	ND
	9/10/2001	695	<5	4,950	1,330	NA	NA	NA	208	<5	NA	3,450	<10	145	5,980	1,380	<5	5,700	NA	27	107	NA	36	271	11.3	27.8	NA	2,880	196	ND
OW-DR3	9/20/2002	<5	<5	221	<5	NA	NA	NA	15.4	<5	NA	1,060	<10	11.3	1,840	778	<5	8.9	NA	<5	29.5	NA	<5	<5	<5	<5	NA	35.3	<5	ND
	9/19/2003	<5	<5	201	<5	NA	NA	NA	14.7	<5	NA	690	<10	8.1	1,390	455	<5	11.1	NA	<5	12.0	NA	<5	<5	<5	<5	NA	35.5	<5	ND
OW-DR4	9/23/2002	1,960	<5	4,320	2,010	NA	NA	NA	228	<5	NA	1,570	<10	121	323	282	<5	7,630	NA	5.4	27.8	NA	55.3	27.3	11.7	68.1	NA	1,880	86.7	ND
	9/22/2003	1,350	<50	4,850	1,860	NA	NA	NA	181	<50	NA	2,200	<100	107	562	311	<50	8,960	NA	<50	<50	NA	<50	<50	<50	65.4	NA	1,530	53.5	ND
OW-DR104 OW-DR4 Dup.	9/23/2002	1,950	<5	4,550	2,050	NA	NA	NA	218	<5	NA	1,760	<10	121	332	274	<5	8,100	NA	5.6	26.8	NA	56.7	28.3	11.4	70.0	NA	1,900	90.9	ND
PW-4I	1/29/1997	19	ND	440	19	ND	ND	ND	280	ND	ND	ND	ND	3J	210	10J	ND	NA	ND	ND	ND	ND	4J	4J	ND	7J	ND	100	4J	ND
	7/13/1998	ND	ND	240D	26J	ND	ND	ND	200D	ND	ND	ND	ND	3J	110J	ND	ND	140J	ND	ND	ND	ND	10J	2J	ND	11J	ND	130DJ	ND	140
	9/26/2000	37	<5	290	28	<5	<5	<5	200	<5	<5	<100	NA	<5	160	<10	<5	190	<10	<5	<5	<5	8	<5	<5	30	<10	120	<10	ND
	9/12/2001	47.8	<5	378	49.2	NA	NA	NA	256	<5	NA	108	<10	<5	211	<10	<5	277	NA	<5	<5	NA	30.6	<5	<5	47.4	NA	127	<5	ND
	9/19/2002	55.8	<15	451	64.0	NA	NA	NA	306	<15	NA	156	<30	<15	253	<30	<15	336	NA	<15	<15	NA	33.7	<15	<15	53.1	NA	152	<15	ND
	10/22/2003	95.3	<5	340	84.0	NA	NA	NA	247	<5	NA	232	<10	<5	228	<10	<5	361	NA	<5	<5	NA	18.7	<5	<5	27.5	NA	147	<5	ND
PW-104I PW-4I Dup.	10/22/2003	102	<5	370	91.1	NA	NA	NA	255	<5	NA	256	<10	<5	252	12.8	<5	391	NA	<5	<5	NA	22.7	<5	<5	31.1	NA	150	<5	ND
PW-5D	1/30/1997	ND	ND	20	ND	ND	ND	ND	2J	ND	ND	ND	76	2J	140	33	8	NA	ND	ND	26	ND	ND	10	ND	ND	ND	18	ND	91
	7/14/1998	96J	ND	550D	ND	ND	ND	3J	38J	ND	ND	1300J	ND	61J	3800D	ND	ND	22	ND	19J	ND	ND	9J	260D	3J	5J	ND	ND	99J	31
	9/26/2000	360	<5	2,400	500	<5	<5	6.5	150	<5	<5	2,300	NA	110	4,300	220	<5	1,600	14	21	6.3	5	17	180	31	28	<10	1,000	104	ND
	9/10/2001	437	<5	2,310	534	NA	NA	NA	168	<5	NA	1,680	<10	90.6	4,110	156	<5	2,280	NA	19.3	11.1	NA	31.7	205	6.6	30.8	NA	1,270	105	ND
	9/23/2002	552	<5	2,500	694	NA	NA	NA	211	<5	NA	1,920	<10	90.1	3,460	190	<5	2,900	NA	16.9	6.0	NA	27.6	169	7.5	26.2	NA	1,330	101	ND
	9/19/2003	<5	<5	57.6	<5	NA	NA	NA	<5	<5	NA	412	110	<5	164	<10	<5	9.4	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-110D PW-5D Dup.	9/10/2001	417	<5	2,150	505	NA	NA	NA	168	<5	NA	1,470	<10	89.1	3,830	152	<5	2,110	NA	19.4	8.9	NA	30.9	199	6.3	30.6	NA	1,180	104	ND
PW-6D	7/21/1998	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	10/2/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/20/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-6I	1/28/1997	ND	ND	11	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	14	4J	ND	NA	ND	ND	1J	ND	ND	ND	ND	2J	2J	ND	ND	ND
	7/14/1998	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	4J	ND	5	ND	ND	ND	ND	5	ND	ND	3J	ND	ND	ND	5
	9/26/2000	<5	<5	12	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	8.4	<10	<5	8.3	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/12/2001	<5	<5	10.7	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	7.2	<10	<5	9.9	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	12.2	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	9.0	<10	<5	9.8	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/20/2003	<5	<5	12.1	<5	NA	NA	NA	<5	<5	NA	11.6	<10	<5	9.9	<10	<5	13	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-7I	2/6/1997	ND	ND	2J	ND	ND	ND	ND	ND	ND	2J	ND	7J	ND	1J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND	ND
	7/17/1998	86	ND	16	37	ND	ND	ND	23	ND	ND	ND	ND	2J	77	ND	ND	50	ND	ND	ND	ND	65	9	ND	21	ND	4J	3J	50
	9/26/2000	<5	<5	9.2	15	<5	<5	<5	7.2	<5	<5	<100	NA	<5	18	<10	<5	36	<10	<5	14	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	150	<10	<5	8.1	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/20/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	126	<10	<5	7.7	<10	<5	5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	144	<10	<5	9.8	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-8S	1/28/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	670J	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/13/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
	9/27/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	7.7	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	14.5	<10	<5	6.1	<10	<5	8.1	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	9
	9/17/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	163	<5	11.3	<10	<5	6	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-9I	1/30/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	160	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND

TABLE 3A
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2,3-Trichloropropane (ug/l)	1,2-Dibromoethane (ug/l)	1,2-Dichlorobenzene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloropropane (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (P-Dioxane) (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloroform (ug/l)	cis-1,2-Dichloroethene (ug/l)	Dichlorodifluoromethane (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Trichlorofluoromethane (ug/l)	Vinyl Chloride (ug/l)	Xylenes (total) (ug/l)	Other VOCs (ug/l)
PW-10D																														
	9/10/1996	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9J	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	9/26/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	10.8	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	10.4	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/18/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-10I																														
	1/27/1997	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	7	ND	1J	ND	ND	ND	ND	ND	8	ND	ND	ND
	7/10/1998	ND	ND	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2000	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/11/2001	<5	<5	12.9	<5	NA	NA	NA	<5	<5	NA	31.4	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	14.7	24.6	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/18/2003	<5	<5	17	<5	NA	NA	NA	<5	<5	NA	109	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-11I																														
	7/22/1997	ND	ND	ND	ND	ND	ND	ND	ND	8J	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	450	ND	ND	ND	ND
	7/16/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	260D	ND	ND	ND	47
	9/29/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	26	<10	<5	<5	<5	<5	<5	<5	130	<10	<10	<10	ND
	9/11/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	14.3	<10	<5	<5	<10	<5	34.8	NA	<5	<5	NA	<5	<5	<5	205	NA	<10	<5	ND
	9/18/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	22.3	<10	<5	<5	<10	<5	38.1	NA	<5	<5	NA	<5	<5	<5	214	NA	<10	<5	ND
	9/23/2003	<10	<10	<10	<10	NA	NA	NA	<10	<10	NA	50.3	<20	<10	<10	<20	<10	87.3	NA	<10	<10	NA	<10	<10	<10	378	NA	<20	<10	ND
PW-12D																														
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	14.4	39.6	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-12I																														
	7/22/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6J	ND	ND	ND	ND	NA	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/16/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	1	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-10012I PW-12I Dup.	10/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-13I																														
	7/22/1998	16/14	NA	77/76	35/26	NA	NA	ND/ND	ND/ND	NA	ND/ND	ND/ND	ND/ND	2J/2J	6/6	ND/4J	NA	NA	NA	NA	ND/ND	ND/ND	3J/2J	8/8	NA	4J/4J	NA	34/36	ND/ND	110/110
	9/29/2000	27	<5	240	120	<5	<5	<5	12	<5	<5	<100	NA	5.2	11	11	<5	220	<10	<5	<5	<5	<5	<5	5.4	6.2	<10	93	<10	ND
	9/12/2001	16.4	<5	275	89	NA	NA	NA	14.1	<5	NA	70.9	<10	7.8	10.4	10.9	<5	305	NA	<5	<5	NA	<5	<5	<5	5.2	NA	87.6	<5	ND
	9/20/2002	<15	<15	243	67.4	NA	NA	NA	<15	<15	NA	128	<30	<15	<15	<30	<15	270	NA	<15	<15	NA	<15	<15	<15	<15	NA	91.0	<15	ND
	9/23/2003	11.7	<10	321	92.2	NA	NA	NA	14.3	<10	NA	118	<20	<10	21.7	<20	<10	358	NA	<10	<10	NA	<10	<10	<10	<10	NA	90.4	<10	ND
PW-14D																														
	7/22/1998	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	10/31/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/10/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	73.1	<5	<5	<10	<5	<5	NA	<5	7.8	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/17/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	70.7	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-14S																														
	7/23/1998	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	10/30/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-15D																														
	7/21/1998	ND	NA	150	ND	NA	NA	ND	8	NA	ND	320J	ND	ND	14	220D	NA	NA	NA	NA	75	ND	3J	ND	NA	3J	NA	38	ND	10
	10/31/2000	46	<5	710	57	<5	<5	<5	19	<5	<5	1,800	NA	73	5,100	690	<5	220	18	<5	68	<5	<5	25	5.4	6.5	<10	200	22	ND
	9/6/2001	<5	<5	1,150	<5	NA	NA	NA	<5	<5	NA	3,650	<10	<5	5,930	813	<5	653	NA	<5	<5	NA	<5	<5	<5	<5	NA	386	<5	ND
	9/16/2003	24	<5	349	78.2	NA	NA	NA	14.1	<5	NA	622	<10	10	728	162	<5	352	NA	<5	20.1	NA	<5	<5	<5	<5	NA	118	<5	
PW-15S																														
	7/21/1998	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	10/30/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	11	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	24.6	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-16D																														
	7/22/1998	ND	NA	130	ND	NA	NA	ND	6	NA	ND	87J	ND	7	380D	140	NA	NA	NA	NA	ND	ND	3J	ND	NA	6	NA	16	ND	11
	11/2/2000	<120	<120	210	<120	<120	<120	<120	<120	<120	<120	<2500	NA	<120	1400	<250	<120	<120	<250	<120	<120	<120	<120	<120	<120	<120	<250	<250	<250	ND
	9/6/2001	10.6	<5	355	12.3	NA	NA	NA	8.9	<5	NA	788	<10	29.3	2,580	250	<5	71.5	NA	<5	22.7	NA	<5	<5	<5	<5	NA	55.2	<5	ND
	9/17/2003	<100	<100	501	<100	NA	NA	NA	<100	<100	NA	858	<200	<100	2,880	<200	<100	285	NA	<100	<100	NA	<100	<100	<100	<100	NA	<200	<100	ND

TABLE 3A
GROUND WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample I.D.	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2,3-Trichloropropane (ug/l)	1,2-Dibromoethane (ug/l)	1,2-Dichlorobenzene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloropropane (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (P-Dioxane) (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloroform (ug/l)	cis-1,2-Dichloroethene (ug/l)	Dichlorodifluoromethane (ug/l)	Ethylbenzene (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Trichlorofluoromethane (ug/l)	Vinyl Chloride (ug/l)	Xylenes (total) (ug/l)	Other VOCs (ug/l)
PW-16S																														
	7/22/1996	ND	NA	ND	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
	10/30/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/6/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/17/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-17																														
	11/3/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	160 B	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	12/20/2000	<5/<2	<5/<2	<5/<2	<5/<2	<5/<10	<5/<10	<5/<10	<5/NA	<5/<10	<5/<10	<100/<100	NA/<100	<5/<2	<5/<10	<10/<10	<5/<2	<5/<2	<10/<10	<5/<2	<5/<10	<5/NA	<5/<2	<5/<2	<5/<2	<5/<2	<10/<5	<10/<2	<10/<5	ND
	9/12/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/22/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
PW-18 (TD = 225 ft)	11/7/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	19	<5	<5	<10	<10	<10	ND
	12/20/2000	<5/<2	<5/<2	<5/<2	<5/<2	<5/<10	<5/<10	<5/<10	<5/NA	<5/<10	<5/<10	<100/<100	NA/<100	<5/<2	<5/<10	<10/<10	<5/<2	<5/<2	<10/<10	<5/<2	<5/<10	<5/NA	<5/<2	<5/<2	<5/<2	<5/<2	<10/<10	<10/<2	<10/<5	ND
	9/11/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	24.3	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	195.0	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	9	ND
PW-19	11/8/2001	<5	<5	<5	<5	NA	NA	<10	<5	<5	<10	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	<10	<5	<5	<5	<5	NA	<10	<5	ND
	9/19/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
W-1	1/29/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	NA	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/10/2001	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	12.4	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	8.4	<5	<5	<5	NA	<10	<5	ND
	9/18/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	11.5	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	8.2	<5	<5	<5	NA	<10	<5	ND
	9/17/2003	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	<10	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	78.4	<5	<5	9.7	NA	<10	<5	ND
W-4	2/6/1997	47	ND	640	86	ND	ND	ND	23J	ND	ND	ND	6J	30	8J	35J	ND	NA	ND	7J	ND	ND	ND	7J	ND	ND	ND	280	5J	450
	9/27/2000	14	<5	200	57	<5	<5	<5	8.4	<5	<5	<100	NA	8.7	<5	<10	<5	170	<10	<5	<5	<5	<5	<5	6.7	<5	<10	60	<10	ND
	9/10/2001	<5	32.7	<5	<5	NA	NA	NA	<5	<5	NA	18.5	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/17/2002	<5	<5	<5	<5	NA	NA	NA	<5	<5	NA	18.2	<10	<5	<5	<10	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/17/2003	27.9	<5	135	56.9	NA	NA	NA	10.9	<5	NA	162	<10	<5	<5	<10	<5	248	NA	<5	<5	NA	<5	<5	<5	8.1	NA	45.2	<5	ND
W-4A	1/28/1997	13,000	ND	11,000	5,700	ND	ND	ND	540J	ND	ND	ND	ND	890J	ND	ND	ND	NA	ND	ND	39,000	10	ND	1,300	ND	ND	ND	2,600	280J	1,060
	9/27/2000	380	<5	4,300	1,500	<5	<5	<5	160	<5	<5	2,100	NA	230	67	50	<5	4,500	<10	12	1,300	<5	38	57	280	42	<10	870	66	8.3
	9/10/2001	619	<5	10,400	3,580	NA	NA	NA	316	<5	NA	2,770	<10	<5	125	111	<5	12,400	NA	40.4	4,350	NA	52.8	126	19	43.8	NA	2,100	169	13
	9/17/2002	515	<5	9,120	2,490	NA	NA	NA	207	<5	NA	1,950	<10	273	105	95.7	<5	10,500	NA	24.4	3,570	NA	38.5	59.4	10.9	28.5	NA	2,330	122	ND
	9/17/2003	82.9	<5	1,350	544	NA	NA	NA	68.1	<5	NA	1,090	<10	72.5	29.1	18.5	<5	1,740	NA	<5	<5	NA	16.8	15.1	<5	16	NA	286	22.4	ND
W-5	8/7/1996	110,000	ND	27,000	21,000	ND	ND	ND	ND	ND	ND	NA	19,000	2100J	1700J	9400J	ND	ND	ND	ND	140,000	42J	8,900	13,000	ND	ND	ND	36,000	3900J	77,000
	2/24/1997	98,000	ND	28,000	19,000	ND	ND	ND	2000J	ND	ND	ND	34,000	2200J	1800J	9100J	ND	ND	ND	1100J	130,000	32J	5,600	15,000	ND	24,000	ND	33,000	5,200	9,300
	10/30/2000	95,000	91	22,000	31,000	<5	<5	53	1,100	17	<5	24,000	NA	1,000	1,200	2,200	190	72,000	19	760	100,000	42	3,500	8,900	340	11,000	29	25,000	2,540	370
	9/10/2001	144,000	<5	14,000	33,300	NA	NA	NA	<5	<5	NA	13,800	<10	<5	<5	<10	<5	53,900	NA	<5	63,200	NA	7,710	9,270	<5	27,000	NA	12,500	<5	ND
	9/19/2002	121,000	<5,000	45,400	122,000	NA	NA	NA	<5,000	<5,000	NA	14,300	<10,000	7,780	11,100	<10,000	<5,000	74,300	NA	5,880	93,100	NA	28,900	35,300	<5,000	38,300	NA	39,500	28,400	7,530
	9/17/2003	135,000	<5,000	9,220	31,800	NA	NA	NA	<5,000	<5,000	NA	11,300	<10,000	<5,000	<5,000	<10,000	<5,000	56,400	NA	<5,000	81,900	NA	6,340	7,580	<5,000	28,400	NA	<10,000	<5,000	ND
W-6A	2/5/1997	10,000	ND	65,000	16,000	ND	ND	ND	48,000	ND	ND	ND	150,000	ND	21,000	ND	ND	ND	ND	ND	310,000	ND	3200J	12,000	ND	ND	ND	6800J	ND	97,000
	9/28/2000	31,000	280	69,000	24,000	14	6.2	46	71,000	<5	5	81,000	NA	<5	17,000	940	160	100,000	<10	550	410,000	30	3,200	14,000	660	3,100	710	9,900	1,950	300.2
W-21	1/31/1997	340	ND	130	210	ND	ND	ND	110	ND	ND	240J	ND	ND	ND	18J	3J	ND	ND	ND	3J	ND	47	ND	ND	54	30	77	ND	ND
	9/28/2000	190	<5	120	140	<5	<5	<5	74	<5	<5	520	NA	<5	<5	<10	<5	220	<10	<5	<5	<5	97	<5	<5	73	14	60	<10	ND
	9/10/2001	129	<5	101	140	NA	NA	NA	57.8	<5	NA	407	<10	<5	<5	<10	<5	271	NA	<5	<5	NA	116	<5	<5	72.7	NA	41.4	<5	ND
	9/17/2002	127	<5	188	163	NA	NA	NA	36.2	<5	NA	458	<10	5.2	<5	<10	<5	496	NA	<5	<5	NA	102	<5	<5	98.0	NA	100	<5	ND
	9/17/2003	106	<5	140	151	NA	NA	NA	44.6	<5	NA	743	<10	<5	<5	<10	<5	384	NA	<5	<5	NA	140	<5	<5	105.0	NA	76.7	<5	ND
W-21 DUP.																														
DUP.1	9/10/2001	129	<5	99.8	138	NA	NA	NA	55.8	<5	NA	332	<10	<5	<5	<10	<5	282	NA	<5	<5	NA	115	<5	<5	71.5	NA	40.4	<5	ND
DUP.2 (pH)	9/10/2001	144	<5	106	164	NA	NA	NA	61.7	<5	NA	425	<10	<5	<5	<10	<5	262	NA	<5	<5	NA	111	<5	<5	72.9	NA	51.3	<5	ND
W-110 (Blind duplicate of W-6)	10/30/2000	97,000	89	22,000	32,000	<5	<5	54	1,100	17	<5	22,000	NA	990	1,200	1,900	190	73,000	<10	760	100,000	42	3,500	8,700	310	11,000	33	25,000	2,670	342

ug/l = micrograms per liter
J = Estimated value
B = Analyte detected in associated method blank as well as sample
ND = Not detected NA = Not Analyzed

Bold type indicates value exceeds NC 2L ground water standard
Values separated by slash (/) indicate split sample results
NC 2L Standard = North Carolina 2L ground water quality standard

TABLE 3B
GROUND WATER ANALYTICAL RESULTS FOR STREAMBED PIEZOMETER SAMPLES - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	1,4-Dioxane (P-Dioxane)	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (Total)	Other VOCs
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NC 2L Standard		200		700	7		620	0.38	0.88	75	7	1	0.3	50	2800	0.19	70	1400	29	5	21	70	0.7	1000	70	2.8	2100	0.015	530	
Deep River																														
DRP-2	7/15/1997	730	ND	2700	730	ND	ND	170J	ND	ND	ND	110J	ND	500	380	ND	ND	ND	ND	ND	ND	ND	28J	72J	ND	52J	ND	1400	72J	ND
	9/4/1997	1000	ND	4000	960	ND	ND	220	ND	ND	ND	ND	ND	450	ND	ND	5000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1800	ND	ND
	7/21/1998	440D	ND	1500	420	ND	ND	ND	ND	ND	1700	54	ND	280	ND	ND	2000	ND	7	ND	ND	ND	22	34	28J	13	ND	1200D	51	2003
	11/3/2000	<120	<120	2400	<120	<120	<120	<120	<120	<120	4100	<120	<120	4000	990	<120	1000	<250	<120	<120	<120	<120	<120	210	<120	<120	<250	1100	<250	ND
	9/14/2001	120	<5	2910	182	NA	<10	144	<5	<10	3570	89.2	<5	3770	548	<5	1970	NA	14.8	31	<10	NA	12.9	173	6.9	10.3	NA	998	107	42.2
	9/24/2002	289	<150	3640	575	NA	NA	193	<150	NA	3240	<150	<150	3660	602	<150	4090	NA	<150	<150	NA	NA	<150	207	<150	<150	NA	1920	<150	ND
	9/15/2003	<5	<5	<5	<5	NA	NA	<5	<5	NA	23	<5	<5	22	<10	<5	7.6	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	ND
DRP-4	7/15/1997	ND	ND	360J	ND	ND	ND	ND	ND	ND	ND	130J	ND	13000	4700	ND	ND	ND	ND	560J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/4/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10000	5200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	110 B	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/14/2001	<5	<5	<5	<5	NA	NA	<5	<5	NA	154	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	12.9
	9/24/2002	<5	<5	<5	<5	NA	NA	<5	<5	NA	108	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	ND
	9/16/2003	<5	<5	<5	<5	NA	NA	<5	<5	NA	180	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	24.2
DRP-40	9/14/2001	<5	<5	<5	<5	NA	<10	<5	<5	<10	26.7	<5	<5	32.6	<10	<5	<5	NA	<5	<5	<10	NA	<5	<5	<5	<5	NA	<10	<5	0
DRP-50	9/14/2001	<5	<5	<5	<5	NA	<10	<5	<5	<10	<10	<5	<5	5.3	<10	<5	<5	NA	<5	<5	<10	NA	<5	<5	<5	<5	NA	<10	<5	0
DRP-10	9/4/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/13/2001	<5	<5	<5	<5	NA	NA	<5	<5	NA	<10	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	0
	11/26/2002	<5	<5	<5	<5	NA	NA	<5	<5	NA	<10	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	0
	10/21/2003	<5	<5	<5	<5	NA	NA	<5	<5	NA	<10	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	ND
DRP-70	9/14/2001	<5	<5	<5	<5	NA	<10	<5	<5	<10	11.5	<5	<5	<5	<10	<5	<5	NA	<5	<5	<10	NA	<5	<5	<5	<5	NA	<10	<5	0
DRP-11	11/2/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
	9/13/2001	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/2002	<5	<5	<5	<5	NA	NA	<5	<5	NA	89.6	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	ND
	10/21/2003	<5	<5	<5	<5	NA	NA	<5	<5	NA	29	<5	<5	<5	<10	<5	<5	NA	<5	<5	NA	NA	<5	<5	<5	<5	NA	<10	<5	ND
Richland Creek																														
RCP-1	11/2/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND
RCP-2	11/2/2000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	ND

ug/l = micrograms per liter
ND = Not Detected
NS = Not Sampled

NA = Not Analyzed
J = Estimated value

NC 2L Standard = North Carolina 2L ground water quality standard
B = Analyte detected in associated method blank as well as sample
Bold type indicates value exceeds NC 2L ground water quality standard

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
Ground Water								
MW-3B	9/26/2000	7.05	**-74**	--	--	--	--	--
	9/5/2001	2.00	**-67**	--	--	--	--	--
MW-3C	9/26/2000	6.54	**-40**	--	--	--	--	--
	9/5/2001	10.53	**1**	--	--	--	--	--
	9/18/2002	--	**0**	--	--	--	--	--
MW-6	9/26/2000	3.73	273	--	--	--	--	--
	9/6/2001	10.81	84	--	--	--	--	--
	9/19/2002	--	216	--	--	--	--	--
	10/22/2003			17.2		0.42	20.0	3.0
MW-9	9/26/2000	11.76	439	--	--	--	--	--
MW-10	9/26/2000	10.85	347	--	--	--	--	--
	9/6/2001	0.68	**9**	--	--	--	--	--
	9/19/2002	--	**26**	--	--	--	--	--
	9/16/2003	3.01	**-16**	--	--	--	--	--
MW-11	9/28/2000	5.98	381	--	--	--	--	--
	9/10/2001	1.98	**-112**	--	--	--	--	--
	9/18/2002	--	**-133**	--	--	--	--	--
MW-12A	9/28/2000	10.09	298	--	--	--	--	--
	10/30/2000	1.65	**-66**	--	--	--	--	--
	9/6/2001	1.60	**-83**	--	--	--	--	--
	9/20/2002	2.58	**-116**	--	--	--	--	--
	9/16/2003	2.94	**-60**	--	--	--	--	--
MW-12B	9/28/2000	3.08	382	270	**2**	--	--	--
	9/6/2001	2.70	**2**	273	**2.2**	**<.05**	**9.2**	**36.8**
	9/20/2002	4.17	**-16**	291	**2.2**	**0.055**	**6.8**	**49.6**
	9/16/2003	1.63	3	220	3	<0.10	4.3	46.2
MW-12D	9/29/2000	--	**-116**	--	--	--	--	--
	9/11/2001	1.28	**-175**	--	0.4	--	--	--
	9/20/2002	**0.34**	**50**	--	--	--	--	--
	10/22/2003			9.3		<0.10	19.7	1.3
MW-15A	9/5/2001	1.53	**-71**	--	--	--	--	--
	9/18/2002	--	**-10**	--	--	--	--	--
	9/17/2003	1.43	**33**	--	--	--	--	--
OW-DR1	9/27/2000	2.30	**-116**	260	**9.15**	--	--	--
OW-DR2	9/26/2000	6.55	**-97**	220	**6.975**	--	--	--
	9/10/2001	0.67	**-137**	194	**8.7**	**<0.1**	**1.1**	15.7

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
Ground Water								
OW-DR3	9/19/2002	**0.00**	**-177**	229	0	**<0.05**	**13.6**	17.6
OW-DR4	9/23/2002	**0.00**	**-65**	176	**3.6**	**<0.10**	**7.0**	**22.8**
	9/22/2003	0.00	**-136**	150	**4.1**	<0.10	10	17.9
OW-DR104 OW-DR4 Dup.	9/23/2002	--	--	183	--	**<0.10**	**7.1**	**23.3**
PW-4I	9/28/2000	5.38	**-24**	250	**5.2**	--	--	--
	9/12/2001	1.92	**-28**	190	**3.2**	**<0.1**	26	17.4
	9/19/2002	**0.22**	**-63**	190	**3.1**	**<0.05**	21.2	17.1
	10/22/2003	--	--	240	--	<0.10	17.8	26.0
		4.63	53					
PW-104I PW-4I Dup.	10/22/2003	--	--	236	--	<0.10	17.3	26.2
PW-5D	9/26/2000	8.91	**-106**	170	**7.6**	--	--	--
	9/10/2001	1.25	**-194**	139	**5.2**	**<0.1**	**13.3**	11.7
	9/23/2002	**0.00**	**-195**	157	**4.2**	**<0.1**	**19.6**	13.0
	9/19/2003	--	--	44.4	--	<0.05	37.9	3.1
PW-6D	10/2/2000	9.73	**-124**	6.1	-0.02	--	--	--
	9/12/2001	**0.00**	**-216**	4.4	0.0	**<0.1**	**9.5**	<1
	9/19/2002	**0.00**	**-196**	4.8	0.0	**<0.05**	**9.9**	<1
	10/20/2003	--	--	5.3	--	<0.10	11	<1
PW-6I	10/2/2000	2.69	352	26	0.4	--	--	--
	9/12/2001	**0.00**	**10**	25.2	0.0	**<0.1**	**15.5**	1.6
	9/19/2002	**0.00**	**-5**	27.6	0.0	**<0.05**	**14.4**	1.4
	10/20/2003	--	--	39.1	--	**<0.10**	**19.9**	2.1
PW-7I	9/28/2000	13.50	**-168**	200	--	--	--	--
	9/12/2001	1.09	**-191**	314	**6.0**	**<0.1**	**13.3**	**65.1**
	9/20/2002	**0.00**	**-107**	317	**4.6**	**<0.05**	**18.7**	**62.9**
	10/22/2003	--	--	371	--	**<0.10**	**12.8**	**62.4**
PW-8S	9/27/2000	1.86	334	--	--	--	--	--
	9/6/2001	**0.00**	**-85**	--	--	--	--	--
	9/17/2003	**1.35**	**-99**	--	--	--	--	--
PW-9I	9/27/2000	7.20	**-37**	170	0.6	--	--	--
PW-10D	9/26/2000	4.74	204	--	--	--	--	--
	9/11/2001	0.88	**-218**	--	0.0	--	--	--
	9/18/2002	**0.00**	**13**	--	--	--	--	--
PW-10I	9/26/2000	6.85	52	--	--	--	--	--
	9/11/2001	**0.00**	96	--	0.0	--	--	--
	9/18/2002	**0.00**	**-6**	--	--	--	--	--
PW-11I	9/29/2000	2.17	309	--	--	--	--	--
	9/11/2001	9.45	**-82**	43.7	--	**0.3**	47.1	5.4
	9/18/2002	--	**-40**	55.9	0.3	**0.52**	59.0	6.1
	9/23/2003	1.22	**-1**	93.3	**2.2**	**0.29**	98.2	10.9

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
"Ground Water"								
PW-12I	10/2/2000	8.36	426	24	0.1	--	--	--
	9/12/2001	5.21	83	21.8	0.0	7.6	59.5	2.5
	9/19/2002	1.90	293	21.2	0.0	7.5	55.1	1.5
	10/22/2003	--	--	20.8	--	6.6	61.0	2.4
		9.01	216					
PW-10012I PW-12I Dup.	10/22/2003	--	--	22	--	6.9	63.8	2.2
PW-13I	9/29/2000	3.37	**-50**	--	--	--	--	--
	9/12/2001	11.96	**-53**	60.4	0.85	**<0.1**	23.1	8.2
	9/20/2002	--	**-76**	56.5	0.6	**<0.05**	23	7.3
	9/23/2003	--	**-45**	52.2	--	<0.10	27.3	7.1
PW-14D	10/31/2000	5.87	237	11	0.6	--	--	--
	9/10/2001	3.74	**-149**	7	0.4	11.3	37.5	7.1
	9/17/2003	5.07	**-154**	8.5	0	11.5	31.9	11.8
PW-14S	10/30/2000	6.45	252	32	0.2	--	--	--
	9/6/2001	6.01	148	10.2	0.0	**0.37**	**7.1**	<1
	9/16/2003	7.00	161	10.3	0.0	0.53	8.3	<1
PW-15D	9/6/2001	**0.00**	**-57**	171	0.6	**0.53**	**6.2**	11.7
	9/16/2003	**0.00**	**-21**	85.1	0	**18**	**31.6**	2.5
PW-15S	10/30/2000	6.22	165	40	0.4	--	--	--
	9/6/2001	6.51	143	44.2	0.0	15.2	**17**	<1
	9/16/2003	9.8	135	17.8	0.0	5.1	**18.3**	<1
PW-16D	11/2/2000	2.63	237	100	0.4	--	--	--
	9/6/2001	**0.25**	93	87.1	0.0	2.7	**17.5**	3.6
	9/17/2003	**0.00**	53	97.7	0.0	10.1	**19.6**	3.5
PW-16S	10/30/2000	3.66	214	29	0.6	--	--	--
	9/6/2001	7.10	162	25.5	0.0	5.6	29.2	1.4
	9/17/2003	6.88	**27**	28.5	0.0	4.3	27.3	2.9
PW-17	11/3/2000	8.64	198	--	0.8	--	--	--
	9/12/2001	2.95	108	93.9	0.1	5.2	49.6	2.2
	9/18/2002	**0.00**	257	19.2	--	6.0	41.5	<1
	9/22/2003	1.07	92	20.3	--	6.2	47.4	1
PW-18	11/2/2000	11.96	100	--	--	--	--	--
	9/10/2001	2.39	**-110**	--	0.0	--	--	--
	9/16/2003	3.80	**-302**	--	--	--	--	--
PW-19	11/6/2001	**0.00**	231	--	--	--	--	--
	9/18/2002	4.24	**-217**	--	--	--	--	--
	9/16/2003	1.95	**-162**	--	--	--	--	--
W-1	9/27/2000	6.48	280	--	--	--	--	--
	9/10/2001	6.54	74	--	--	--	--	--
	9/18/2002	--	245	--	--	--	--	--
	9/17/2003	7.86	155	--	--	--	--	--
W-4	9/27/2000	3.82	300	--	--	--	--	--
	9/10/2001	**0.49**	**-76**	--	--	--	--	--
	9/17/2002	--	**-92**	--	--	--	--	--
	9/17/2003	3.07	**-37**	--	--	--	--	--

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
"Ground Water"								
W-4A	9/27/2000	2.88	223	--	--	--	--	--
	9/10/2001	3.37	**-56**	--	--	--	--	--
	9/17/2002	--	**-49**	--	--	--	--	--
	9/17/2003	1.46	**23**	--	--	--	--	--
W-5	9/27/2000	2.44	351	370	**5.4**	--	--	--
	10/30/2000	1.98	**-31**	--	--	--	--	--
	9/10/2001	0.53	**-43**	301	**3.9**	**<0.1**	**4.7**	**69.6**
	9/18/2002	--	**-69**	277	**4.0**	**<0.05**	**2.7**	**94.3**
	9/17/2003	0.85	**-31**	247	3.5	<0.10	6.5	60.4
W-6A	9/28/2000	5.77	**-60**	900	**7.4**	--	--	--
W-21	9/28/2000	6.05	310	--	--	--	--	--
	9/10/2001	4.41	100	--	--	--	--	--
	9/17/2002	--	126	--	--	--	--	--
	9/17/2003	1.82	258	--	--	--	--	--
W-110	9/27/2000	2.44	351	380	**5.4**	--	--	--
	10/30/2000	1.98	**-31**	--	--	--	--	--
DRP-2	11/3/2000	3.29	**-69**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/15/2003	4.49	-35	--	--	--	--	--
DRP-4	11/3/2000	7.94	**-28**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/16/2003	--	--	--	--	--	--	--
DRP-10	11/2/2000	3.46	116	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
DRP-11	11/2/2000	10.55	**-68**	--	--	--	--	--
"Surface Water"								
SW-1	11/2/2000	5.09	**-60**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	Dry	--	--	--	--	--	--
	9/16/2003	3.73	9	--	--	--	--	--
SW-2	11/2/2000	7.22	**-100**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	--	**-91**	--	--	--	--	--
	9/15/2003	6.59	**-86**	--	--	--	--	--
SW-3	11/2/2000	9.79	**34**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	--	169	--	--	--	--	--
	9/16/2003	8.65	118	--	--	--	--	--

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
"Surface Water"								
SW-4	11/2/2000	3.75	**-24**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	--	--	--	--	--	--	--
	9/15/2003	7.21	36	--	--	--	--	--
SW-5	11/2/2000	5.80	**38**	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	--	108	--	--	--	--	--
	9/16/2003	4.68	92	--	--	--	--	--
SW-6	11/2/2000	7.55	94	--	--	--	--	--
	9/14/2001	--	--	--	--	--	--	--
	9/24/2002	--	148	--	--	--	--	--
	9/16/2003	6.89	181	--	--	--	--	--
SWT-40								
East @ 1' ^	9/13/2001	3.49	**-3**	--	--	--	--	--
East @ 3.25' ^	9/13/2001	6.88	**10**	--	--	--	--	--
West @ 0.5' ^	9/13/2001	6.00	**-13**	--	--	--	--	--
SWT-50								
East @ 1' ^	9/13/2001	10.65	**7**	--	--	--	--	--
East @ 3' ^	9/13/2001	9.18	**39**	--	--	--	--	--
West @ 1' ^	9/13/2001	8.80	**36**	--	--	--	--	--
SWT-70								
East	9/13/2001	5.03	63	--	--	--	--	--
West	9/13/2001	11.37	**46**	--	--	--	--	--
SW-7	11/3/2000	3.33	252	--	--	--	--	--
	9/13/2001	4.09	113	--	--	--	--	--
	9/15/2003	7.40	251	--	--	--	--	--
SWT-DRP-2								
East	9/14/2001	5.03	**23**	--	--	--	--	--
West	9/14/2001	4.63	**-48**	--	--	--	--	--
SWT-DRP-4								
East	9/14/2001	10.27	**9**	--	--	--	--	--
West	9/14/2001	4.80	**-37**	--	--	--	--	--
SWT-DRP-10								
East	9/13/2001	12.13	**-29**	--	--	--	--	--
West	9/13/2001	13.00	**-21**	--	--	--	--	--
SW-DRP-2	9/15/2003	7.00	153	--	--	--	--	--

TABLE 4
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
NATURAL ATTENUATION PARAMETERS
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	Dissolved Oxygen (mg/l)	Redox Potential (milli-volts)	Chloride (mg/l)	Ferrous Iron (Fe^{+2}) (mg/l)	Nitrate as N (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)
NC 2L Standard		-	-	250	-	10	250	-
General Criteria for Natural Attenuation		<0.5	<50	>2x BG*	>1	<1	<20	>20
"Surface Water"								
SW-DRP-4	9/15/2003	7.12	259	--	--	--	--	--
SW-DRP-10	9/15/2003	7.14	275	--	--	--	--	--
SW-DRP-11	9/13/2001	5.69	180	--	--	--	--	--
	9/24/2002	8.42	184	--	--	--	--	--
	9/15/2003	8.24	342	--	--	--	--	--

mg/l = milligrams per liter
** Greater than 2 times background value*
Bold type indicates value favorable for natural attenuation
General criteria for natural attenuation per USEPA November, 1997
^ -Height in feet above stream bed

TABLE 5
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Conductivity (uS/cm)
Ground Water				
MW-3B	9/26/2000	15.7	6.21	2000
	9/5/2001	17.8	6.44	1930
MW-3C	9/26/2000	15.4	6.31	1520
	9/5/2001	17.6	6.49	1570
	9/18/2002	16.9	6.75	1820
MW-6	9/26/2000	15.3	6.04	559
	9/6/2001	17.5	6.21	472
	9/19/2002	18.1	6.46	538
MW-9	9/26/2000	14.9	5.77	1.17
MW-10	9/26/2000	15.4	6.27	2.51
	9/6/2001	16.0	6.33	2480
	9/19/2002	16.1	6.67	2740
	9/16/2003	16.98	6.69	1940
MW-11	9/28/2000	17.2	6.47	5950
	9/10/2001	17.3	6.70	5860
	9/18/2002	16.5	6.95	5350
MW-12A	9/28/2000	17.9	6.23	747
	10/30/2000	17.69	6.36	899
	9/6/2001	18.7	6.54	506
	9/20/2002	18.8	6.38	766
	9/16/2003	21.27	6.62	521
MW-12B	9/28/2000	16.9	6.19	2620
	9/6/2001	17.7	6.40	2570
	9/20/2002	18.1	6.32	2930
	9/16/2003	18.25	6.72	2500
MW-12D	9/29/2000	15.8	6.81	1110
	9/12/2001	16.2	7.79	949
	9/20/2002	19.5	7.58	520
MW-15A	9/5/2001	17.5	6.28	942
	9/18/2002	15.8	6.66	1150
	9/17/2003	15.82	5.92	932
OW-DR1	9/27/2000	19	6.33	2120
OW-DR2	9/26/2000	16.0	6.30	1850
	9/10/2001	15.6	6.52	1900
OW-DR3	9/20/2002	16.7	6.31	2520
OW-DR4	9/23/2002	17.9	6.56	1720
PW-4I	9/28/2000	21.8	6.26	2010
	9/11/2001	19.7	6.42	1710
	9/19/2002	20.8	6.45	1890
		18.6	6.61	1960
PW-5D	9/26/2000	15.8	6.44	1620
	9/10/2001	16.0	6.65	1590
	9/23/2002	16.3	6.76	1610
PW-6D	10/2/2000	16.5	7.71	320
	9/12/2001	15.4	7.96	472
	9/19/2002	15.9	8.08	356
PW-6I	10/2/2000	15.9	6.17	573
	9/12/2001	14.5	6.23	816
	9/19/2002	15.3	6.27	631
PW-7I	9/28/2000	19.3	6.89	2230
	9/12/2001	16.6	6.57	3190
	9/20/2002	16.2	6.68	3250
PW-8S	9/27/2000	15.5	6.26	1130
	9/6/2001	19.0	6.45	1040
	9/17/2003	17.38	6.20	2080

TABLE 5
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Conductivity (uS/cm)
PW-9I	9/27/2000	19.2	7.04	1860
PW-10D	9/26/2000	15.1	8.25	703
	9/11/2001	15.5	6.85	769
	9/18/2002	19.8	9.77	354
PW-10I	9/26/2000	16.7	6.10	787
	9/11/2001	15.6	6.20	1080
	9/18/2002	16.0	6.43	1210
PW-11I	9/29/2000	16.3	6.85	649
	9/11/2001	17.2	7.23	722
	9/18/2002	19.1	8.05	618
PW-12I	10/2/2000	23.1	7.12	659
	9/11/2001	15.9	6.53	554
	9/19/2002	17.6	6.69	689
		16.4	6.93	648
PW-13I	9/29/2000	17.5	6.67	1100
	9/12/2001	18.3	6.87	937
	9/20/2002	18.4	7.15	999
	9/23/2003	17.77	6.25	890
PW-14D	10/31/2000	23	12.23	6.91
	9/10/2001	19.3	12.7	6,720
PW-14S	10/30/2000	17.73	6.02	130
	9/6/2001	17.8	6.32	185
PW-15D	10/31/2000	15.5	6.84	1.46
	9/6/2001	16.8	6.73	1.68
	9/16/2003	16.3	7.47	730
PW-15S	10/30/2000	16.7	6.39	467
	9/6/2001	16.3	7.20	648
PW-16D	11/2/2000	17.1	7.37	85.7
	9/6/2001	15.7	7.25	96
PW-16S	10/30/2000	17.38	6.27	347
	9/6/2001	17.6	6.32	499
PW-17	11/3/2000	18.8	6.44	44.4
	9/12/2001	18.3	6.49	364
	9/18/2002	16.8	6.62	424
PW-18	11/3/2000	15.6	10.25	44.2
	9/10/2001	17.3	11.21	853
	9/16/2003	16.78	12.86	9040
PW-19	11/6/2001	15.3	7.21	268
	9/18/2002	18.6	7.52	387
	9/16/2003	11.8	8.90	483
W-1	9/27/2000	16.2	6.45	330
	9/10/2001	17.5	6.64	296
	9/18/2002	17.1	6.60	307
	9/17/2003	17.64	6.32	448
W-4	9/27/2000	14.9	6.46	267
	9/10/2001	16.0	6.62	263
	9/17/2002	18.4	6.87	342
	9/17/2003	16.52	6.07	290
W-4A	9/27/2000	14.7	6.45	612
	9/10/2001	15.1	6.50	773
	9/14/2002	15.5	6.43	653
	9/17/2003	14.53	6.14	434
W-5	9/27/2000	15.7	6.38	2530
	10/30/2000	15.26	6.33	2580
	9/10/2001	15.9	6.41	2170
	9/18/2002	16.1	6.94	2060
W-6A	9/28/2000	17.1	5.94	4950
W-21	9/28/2000	14.3	6.04	343
	9/10/2001	14.8	6.59	310
	9/17/2002	15.5	6.72	342
	9/17/2003	14.86	6.10	360

TABLE 5
FIELD PARAMETER DATA - GROUND WATER AND SURFACE WATER
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

Sample Identification	Date	Temperature (degrees Celsius)	pH (Std. Units)	Conductivity (uS/cm)
Surface Water				
SW-1	11/2/2000	10.42	6.72	175
	9/14/2001	20.1	6.37	153
	9/24/2002	Dry	--	--
	9/16/2003	19.85	6.80	119
SW-2	11/2/2000	16.56	7.15	2070
	9/14/2001	21.2	7.10	1640
	9/24/2002	20.9	5.76	1870
	9/15/2003	21.76	7.18	2160
SW-3	11/2/2000	11.02	7.95	359
	9/14/2001	20.1	7.27	199
	9/24/2002	19.3	6.70	3450
	9/16/2003	19.73	7.26	244
SW-4	11/2/2000	12.75	6.88	964
	9/14/2001	19.9	7.21	771
	9/15/2003	25.01	7.50	473
SW-5	11/2/2000	14.72	6.87	415
	9/14/2001	19.7	6.74	295
	9/24/2002	19.7	6.72	295
	9/16/2003		7.00	300
SW-6	11/2/2000	11.40	7.52	215
	9/14/2001	22.40	6.86	133
	9/24/2002	22.35	7.46	168
	9/16/2003	21.50	7.42	117
SW-7	11/3/2000	8.95	6.34	319
	9/13/2001	20.30	6.82	220
	9/24/2002	21.8	6.62	263
	9/15/2003	23.77	7.01	156
SW-DRP-2	11/3/2000	13.46	6.46	1870
East	9/14/2001	20.3	7.00	224
West	9/14/2001	20.5	6.92	239
	9/15/2003	23.08	7.05	150
SW-DRP-4	11/3/2000	13.11	6.27	544
East	9/14/2001	18.8	6.10	286
West	9/14/2001	17.7	6.80	237
	9/15/2003	23.40	7.08	182
SW-DRP-10	11/2/2000	12.58	6.90	306
East	9/13/2001	21.9	7.55	214
West	9/13/2001	21.4	7.21	215
	9/15/2003	23.48	7.07	154
SW-DRP-11	11/2/2000	16.49	6.40	559
	9/13/2001	20.4	6.42	343
	9/24/2002	23.6	6.33	527
	9/15/2003	25.4	6.81	357
SWT-40				
East @ 1' ^	9/13/2001	21.9	6.97	219
East @ 3.25' ^	9/13/2001	22.0	7.01	219
West @ 0.5' ^	9/13/2001	21.8	6.99	217
SWT-50				
East @ 1' ^	9/13/2001	21.0	7.53	217
East @ 3' ^	9/13/2001	22.1	7.04	216
West @ 1' ^	9/13/2001	21.6	7.01	216
SWT-70				
East	9/13/2001	22.0	7.14	216
West	9/13/2001	20.8	7.18	216
RCP-1	11/2/2000	15.25	6.56	277
RCP-2	11/2/2000	15.41	6.56	248

^ -Height in feet above stream bed

TABLE 6
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloroethene (total) (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Isobutyl Alcohol (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	Carbon Disulfide (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		200	12	0.057	0.38	33	400	3	350	1.19	488	550	33	0.46	4.7	44	0.8	11	700	3.08	2	88.5	320	2,000
Northern Intermittent Stream																								
SW-1	4/30/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	<10	<10	<10	<5	<5	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/02	Dry	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	9/16/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-2	4/30/1997	ND	ND	ND	ND	ND	1J	ND	ND	3J	8	ND	ND	1000J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/15/1998	ND	ND	ND	ND	ND	ND	ND	ND	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	NA	<5	420	NA	<5	10	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	<10	353	<10	<5	7.6	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	258	<10	<5	7.7	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	305	<10	<5	9.6	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
Southern Intermittent Stream																								
SW-3	4/30/1997	66	73	33	6	ND	ND	ND	ND	3J	ND	5J	ND	1000J	110	ND	4J	4J	ND	2J	19	ND	ND	ND
	7/15/1998	ND	5	ND	ND	4J	ND	NA	ND	ND	ND	ND	4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	24	38	14	<5	NA	<5	600 B	NA	<5	<5	<10	45	NA	10	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	<10	281	<10	<5	<5	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	14.6	5.1	<5	NA	NA	69.7	<10	<5	<5	<10	17.0	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	151	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	13	42.4	16.8	<5	NA	NA	202	<10	<5	<5	<10	50.4	NA	7.2	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-108 (nd split of SW-3)	11/2/2000	14	26	10	<5	NA	<5	330	NA	<5	<5	<10	30	NA	5.8	<5	<5	<5	<5	<5	<10	<10	ND	ND
SW-4	4/30/1997	4J/5J	30/34	3J/3J	3J/4J	ND/ND	ND/ND	ND/ND	12J/23J	1J/1J	62/69	15J/16J	ND/ND	1000J/ND	10/11	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	8J/9J	ND/ND	ND/ND	ND/ND
	7/20/1998	ND	16	ND	4J	ND	ND	NA	ND	ND	77	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	NA	<5	1100 B	NA	<5	48	34	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	<10	806	<10	<5	16.5	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	480	<10	<5	19.3	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	448	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	7.7	<5	<5	NA	NA	118	11	<5	12.2	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-5	4/30/1997	ND	ND	ND	ND	ND	ND	ND	8J	ND	ND	ND	ND	1000J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	<10	<10	<10	<5	<5	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	<5	<5	<5	<5	NA	NA	12.4	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10

TABLE 6
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

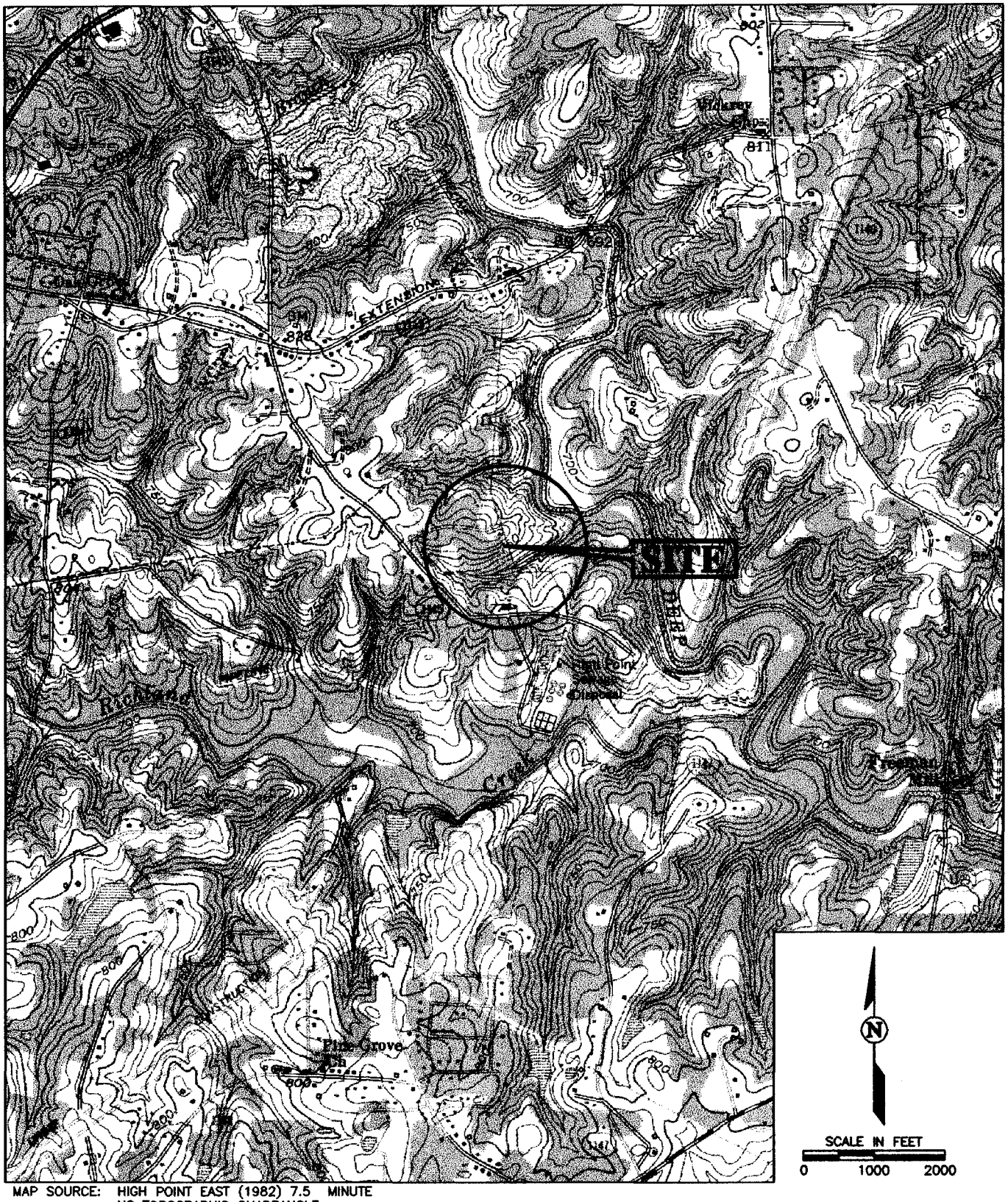
Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloroethene (tota (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Isobutyl Alcohol (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	Carbon Disulfide (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		200	48	0.057	0.38	33	400	3	950	1.19	488	860	33	8.45	4.7	43	0.8	11	700	3.08	2	88.5	320	2,080
Deep River																								
SW-6	5/1/1997	ND	ND	ND	ND	ND	ND	ND	6J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/14/2001	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	11.5	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-7	5/2/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/13/2001	<5	<5	<5	<5	NA	NA	40.5	<10	<5	<5	23	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-DRP-2																								
	11/3/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
EAST	9/14/2001	<5	6.3	<5	<5	NA		15.3	<10	<5	5.8	<10	5.7		<5		<5	<5	<5	<5	<10	<5	ND	ND
WEST	9/14/2001	<5	29.5	<5	<5	NA	<10	42.8	<10	<5	61.5	30.5	26.4	NA	<5	<10	<5	<5	<5	<5	21.7	<5	ND	ND
	9/24/2002	6.6	47.0	11.8	<5	NA	NA	39.2	<10	<5	62.3	20.5	60.3	NA	<5	NA	<5	<5	<5	<5	28.1	<5	5.5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SW-DRP-4																								
	11/2/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
EAST	9/14/2001	<5	9.1	<5	<5	NA	<10	44	<10	<5	101	51.5	8	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
WEST	9/14/2001	<5	8.5	<5	<5	NA	<10	30.2	<10	<5	69.4	33.3	7.4	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	5.8	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
SWT-40																								
EAST @1	9/13/2001	<5	6.5	<5	<5	NA	<10	49.3	<10	<5	47.6	36.7	5.1	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
EAST @3.2	9/13/2001	<5	6	<5	<5	NA	<10	48.9	<10	<5	68.4	38.9	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
WEST @0.5	9/13/2001	<5	5.9	<5	<5	NA	<10	45.9	<10	<5	59.9	37.3	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
SWT-50																								
EAST @1.0	9/13/2001	<5	7	<5	<5	NA	<10	43.4	<10	<5	14.8	33.6	5.4	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
EAST @3.0	9/13/2001	<5	7.6	<5	<5	NA	<10	48.2	<10	<5	42	39.8	6.1	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
WEST @1.0	9/13/2001	<5	7	<5	<5	NA	<10	44	<10	<5	20.2	34.3	5.6	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
SW-DRP-10																								
	11/2/2000	<5	7.5	<5	<5	NA	<5	<100	NA	<5	14	17	5.7	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
EAST	9/13/2001	<5	6	<5	<5	NA	<10	43.8	<10	<5	14.4	27.7	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
WEST	9/13/2001	<5	6.3	<5	<5	NA	<10	43.5	<10	<5	19.2	30.9	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	12.6	<10	<5	7.2	7.5	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	<10	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10

TABLE 6
SURFACE WATER ANALYTICAL RESULTS - VOCs
SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

Sample Description	Sample Date	1,1,1-Trichloroethane (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	1,2-Dichloroethene (total) (ug/l)	1,4-Dichlorobenzene (ug/l)	1,4-Dioxane (ug/l)	Acetone (ug/l)	Benzene (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Isobutyl Alcohol (ug/l)	Methylene Chloride (ug/l)	Naphthalene (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	trans-1,2-Dichloroethene (ug/l)	Trichloroethene (ug/l)	Vinyl Chloride (ug/l)	Xylenes (Total) (ug/l)	Carbon Disulfide (ug/l)	2-Butanone (ug/l)
NC 2B Std. (WS-IV)		200	47	0.057	0.38	35	180	3	550	1.19	488	660	43	6.46	4.7	43	0.8	11	700	1.08	2	88.5	326	2,090
SWT-70																								
EAST	9/13/2001	<5	<5	<5	<5	NA	<10	38.3	<10	<5	<5	22.5	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
WEST	9/13/2001	<5	<5	<5	<5	NA	<10	42.2	<10	<5	5.1	22.1	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
SW-DRP-11																								
	11/2/2000	<5	<5	<5	<5	NA	<5	<100	NA	<5	<5	<10	<5	NA	<5	<5	<5	<5	<5	<5	<10	<10	ND	ND
	9/13/2001	<5	<5	<5	<5	NA	<10	10.2	<10	<5	<5	<10	<5	NA	<5	<10	<5	<5	<5	<5	<10	<5	ND	ND
	9/24/2002	<5	<5	<5	<5	NA	NA	109	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10
	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
50 FT UPSTREAM	11/26/2002	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2003	<5	<5	<5	<5	NA	NA	53.5	<10	<5	<5	<10	<5	NA	<5	NA	<5	<5	<5	<5	<10	<5	<5	<10

ug/l = micrograms per liter
J = Estimated value
B = Analyte detected in method blank as well as sample
Bold type indicates value exceeds NC 2B surface water quality standard (WS-IV)

ND = Not Detected
NA = Not Analyzed
NC 2B Std. (WS-IV) = North Carolina 2B surface water quality standard for Class WS-IV waters
Values separated by slash (/) indicates split sample results



MAP SOURCE: HIGH POINT EAST (1982) 7.5 MINUTE
NC TOPOGRAPHIC QUADRANGLE

FIG 1 9-0 11/12/02 1=1 CH/TW

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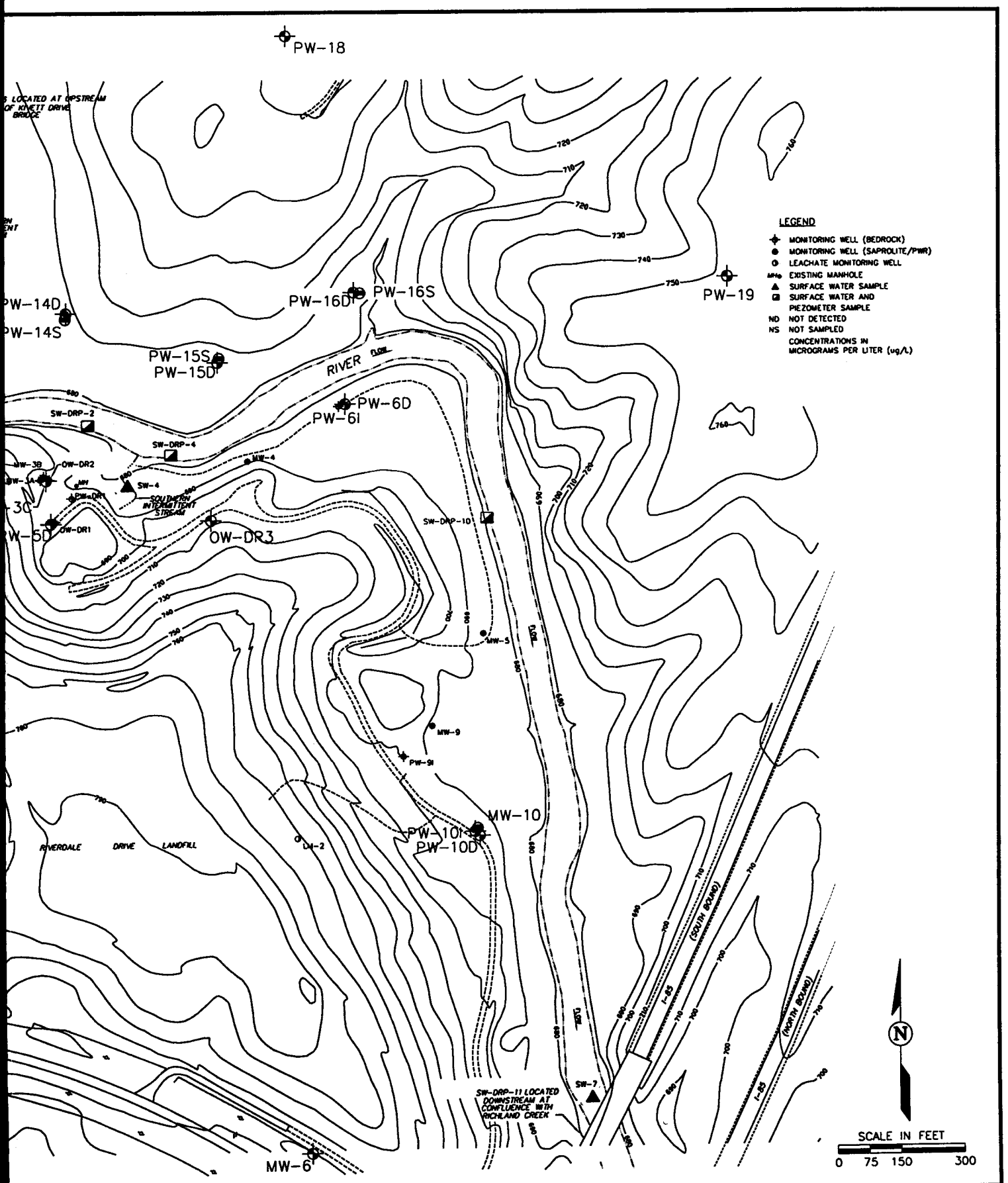
SITE LOCATION MAP
FORMER SEABOARD CHEMICAL CORPORATION AND RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE
1



Environmental Resources Management

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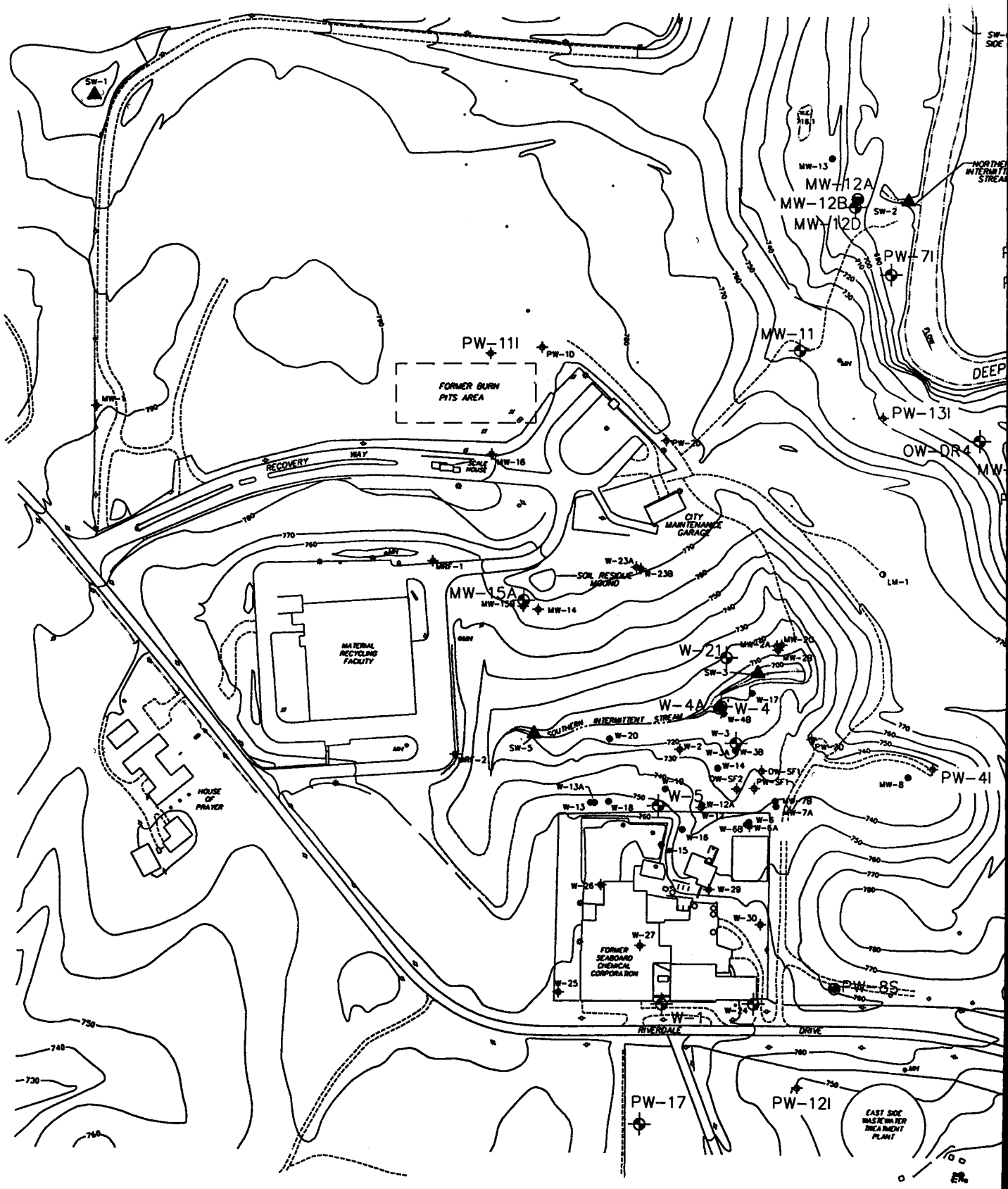
SITE MAP AND SAMPLING LOCATIONS
FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LANDFILL JAMESTOWN, NORTH CAROLINA

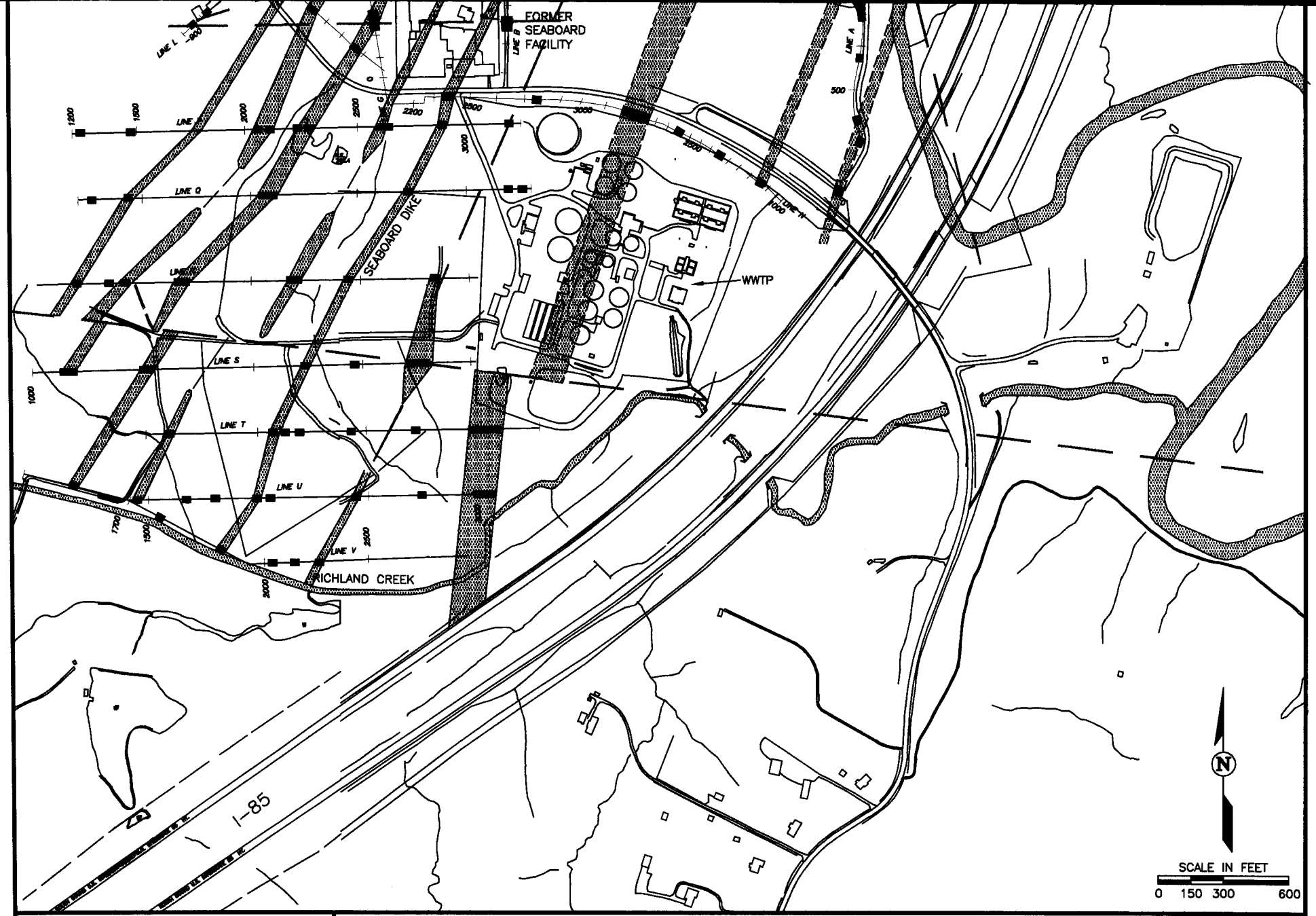
FIGURE 2



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 2 9-02.DWG 11/11/02 1=300 CH/TW

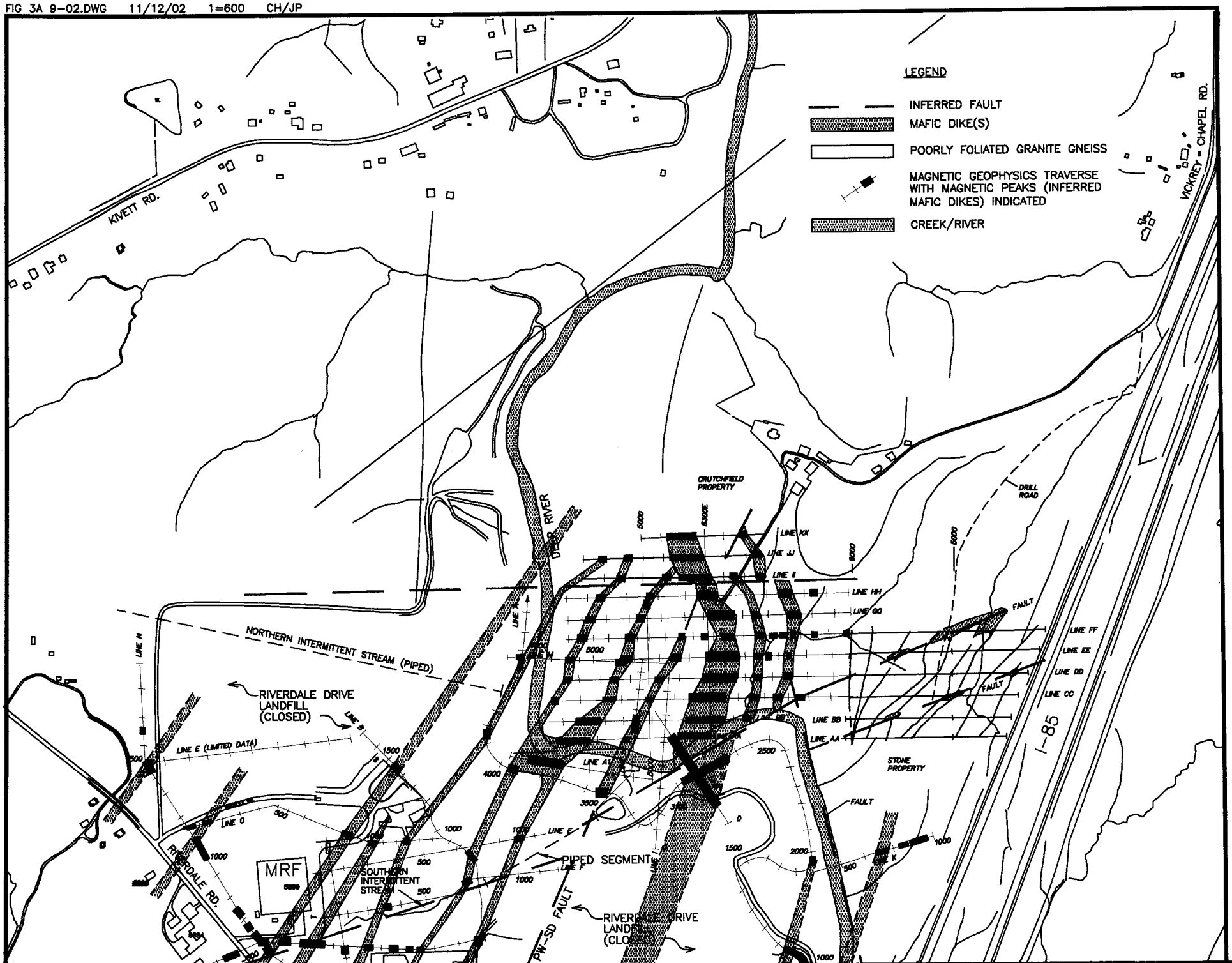


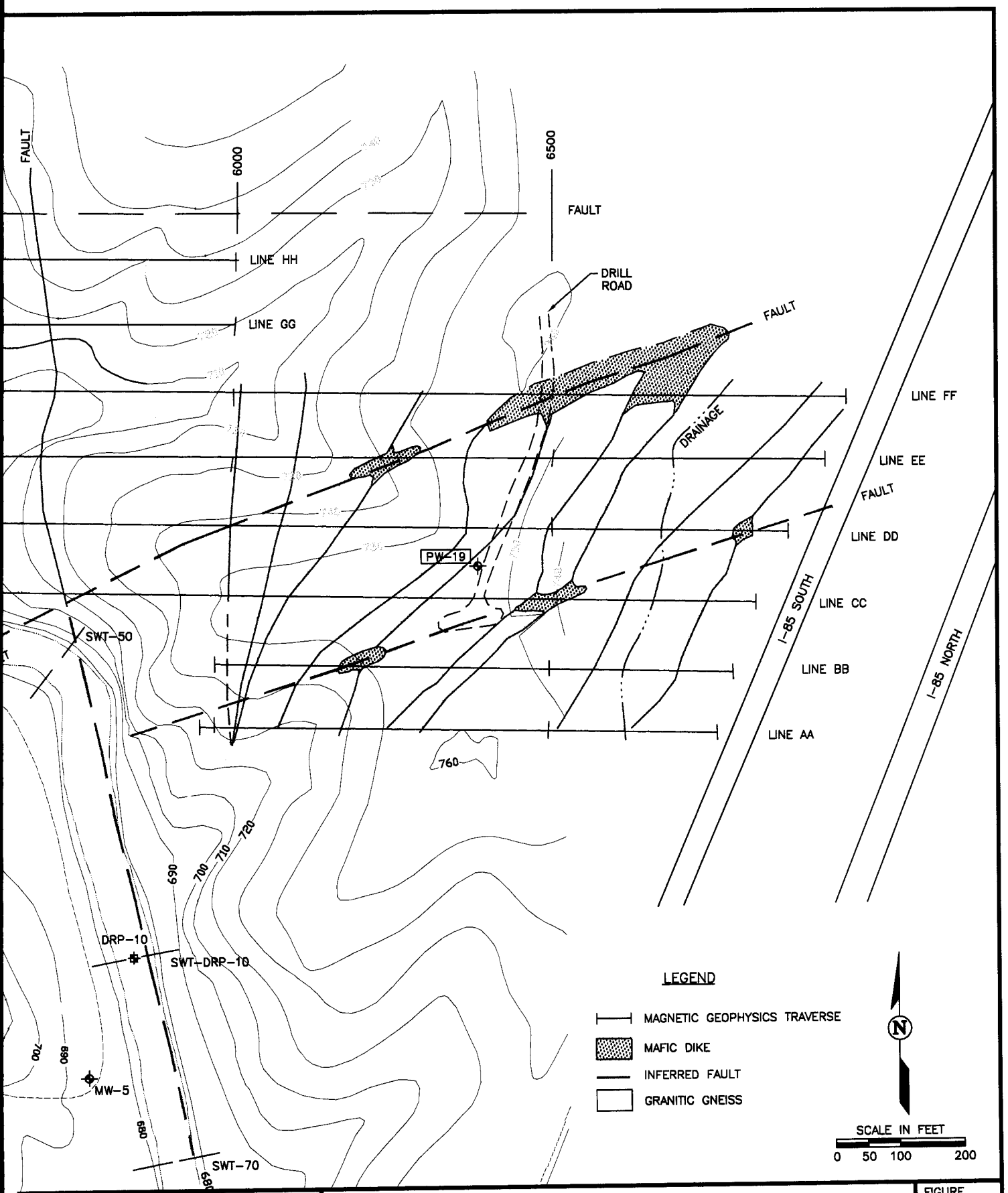
Environmental Resources Management
ERM

GEOLOGIC MAP
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE
3A

FIG 3A 9-02.DWG 11/12/02 1=600 CH/JP





Environmental Resources Management

ERM

GEOLOGIC MAP-DEEP RIVER AREA

FORMER SEABOARD CHEMMICAL/RIVERDALE DRIVE LANDFILL SITE

JAMESTOWN, NORTH CAROLINA

FIGURE

3B

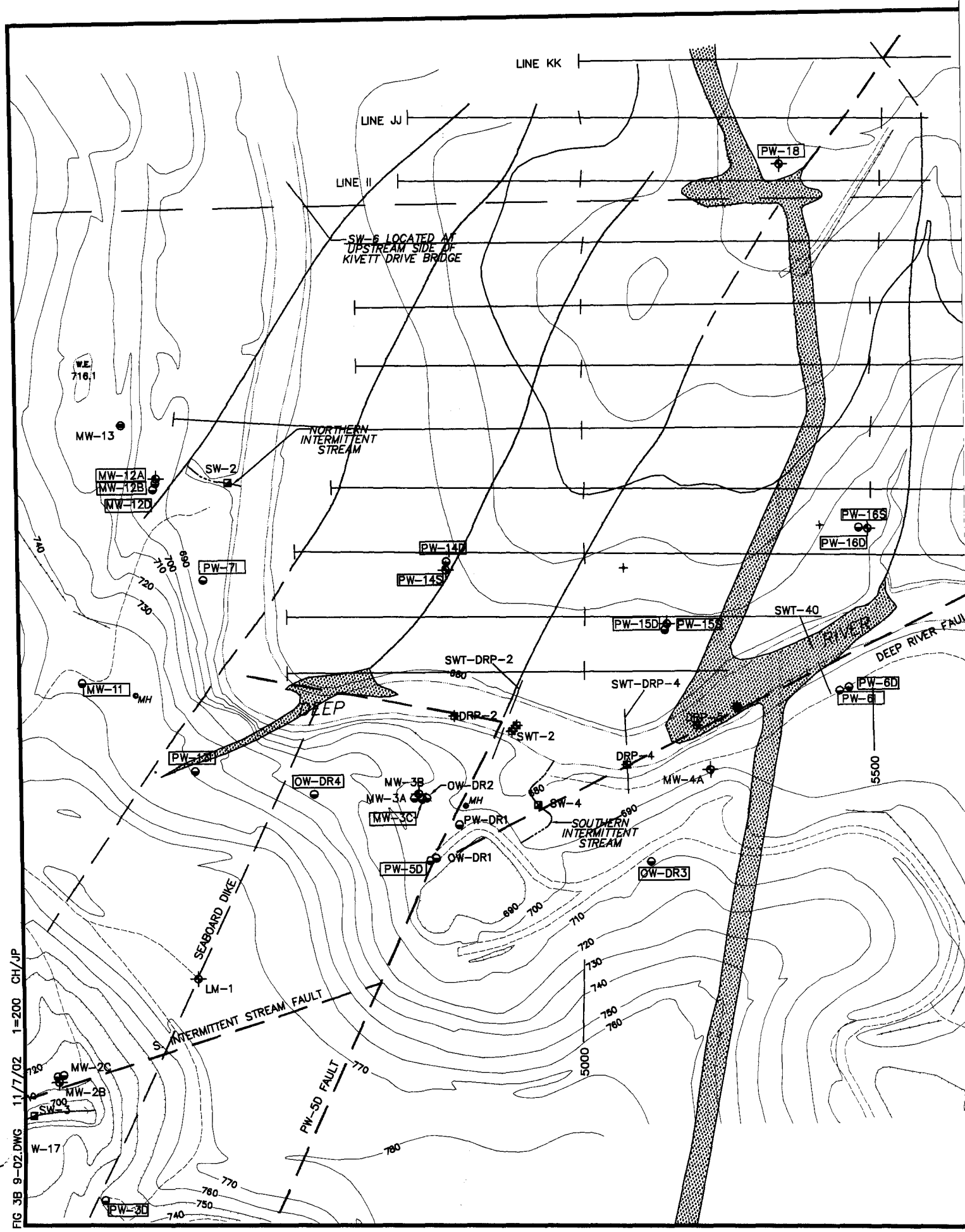
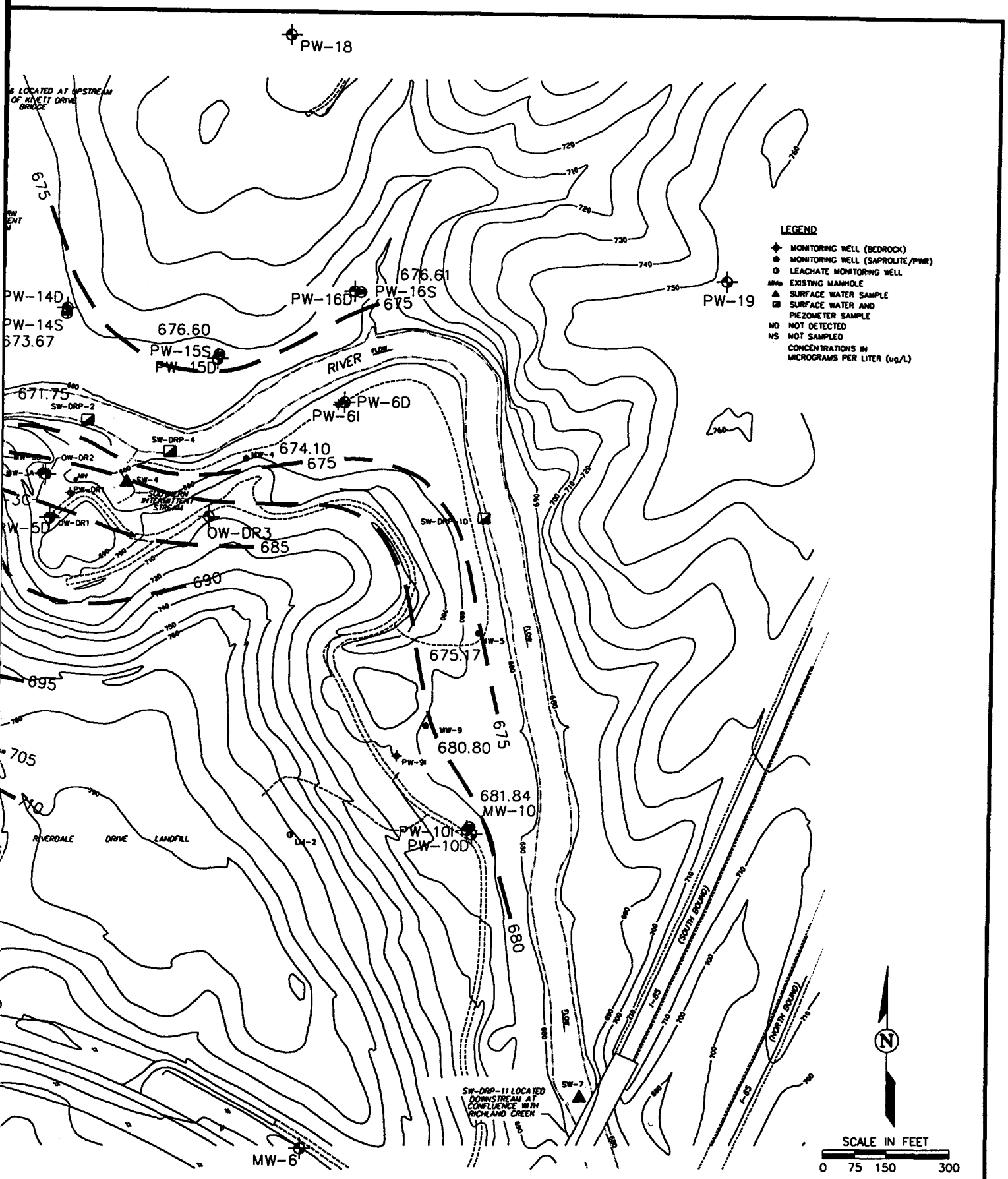


FIG 3B 9-02.DWG 11/7/02 1=200 CH/JP

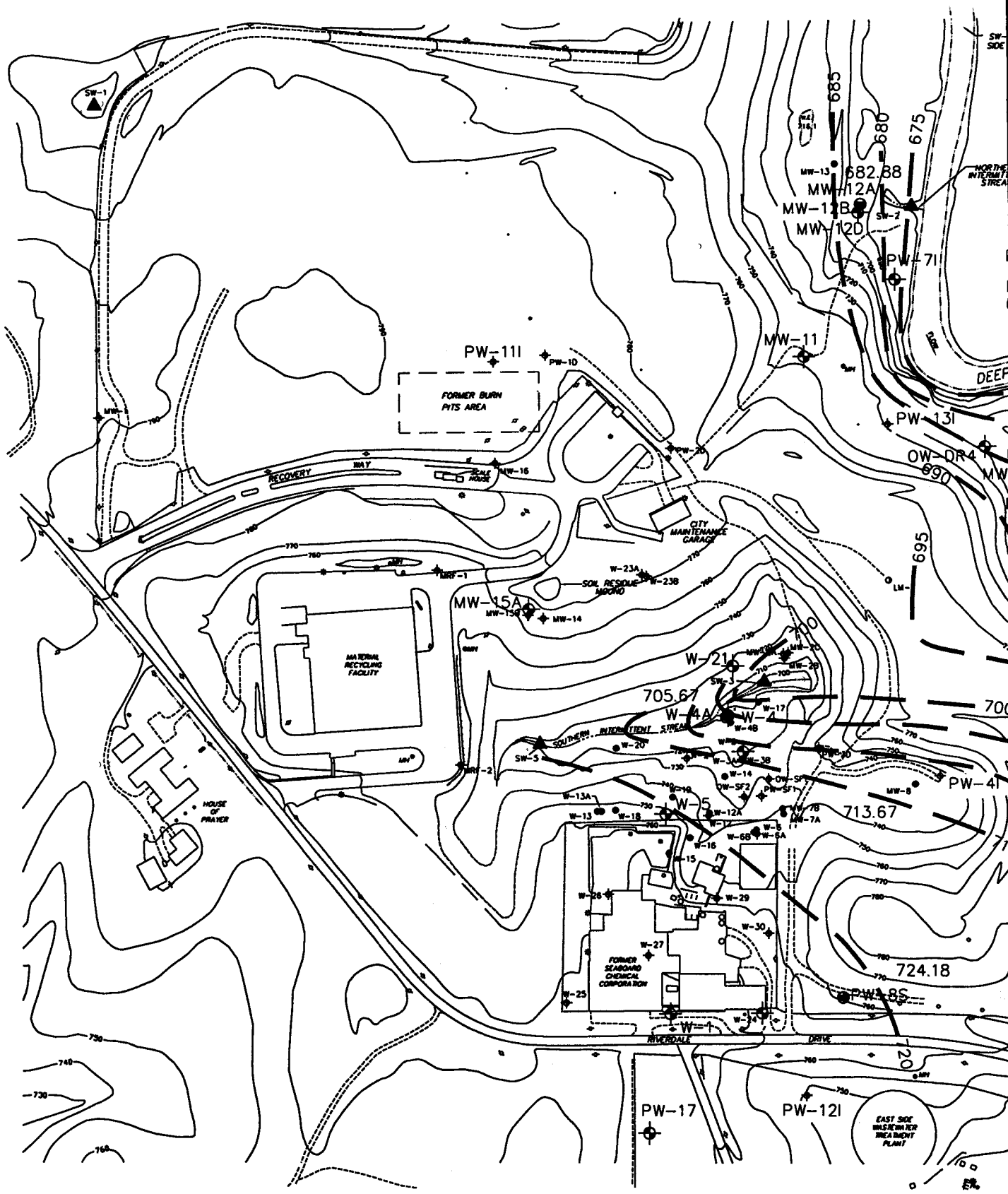


Environmental Resources Management

ERM

GROUND WATER ELEVATIONS- SAPROLITE AQUIFER- SEPT 11-12, 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

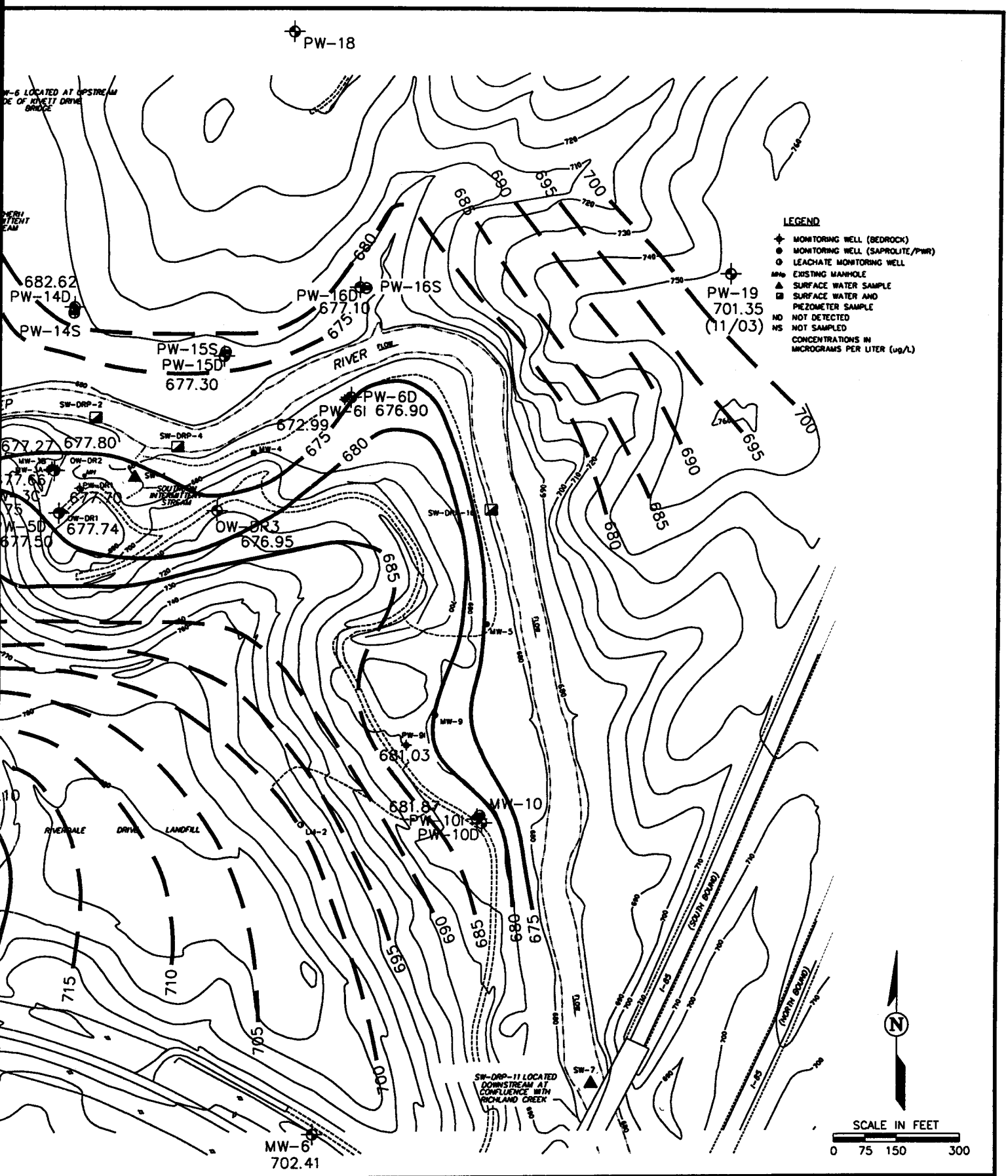
FIGURE **4A**



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

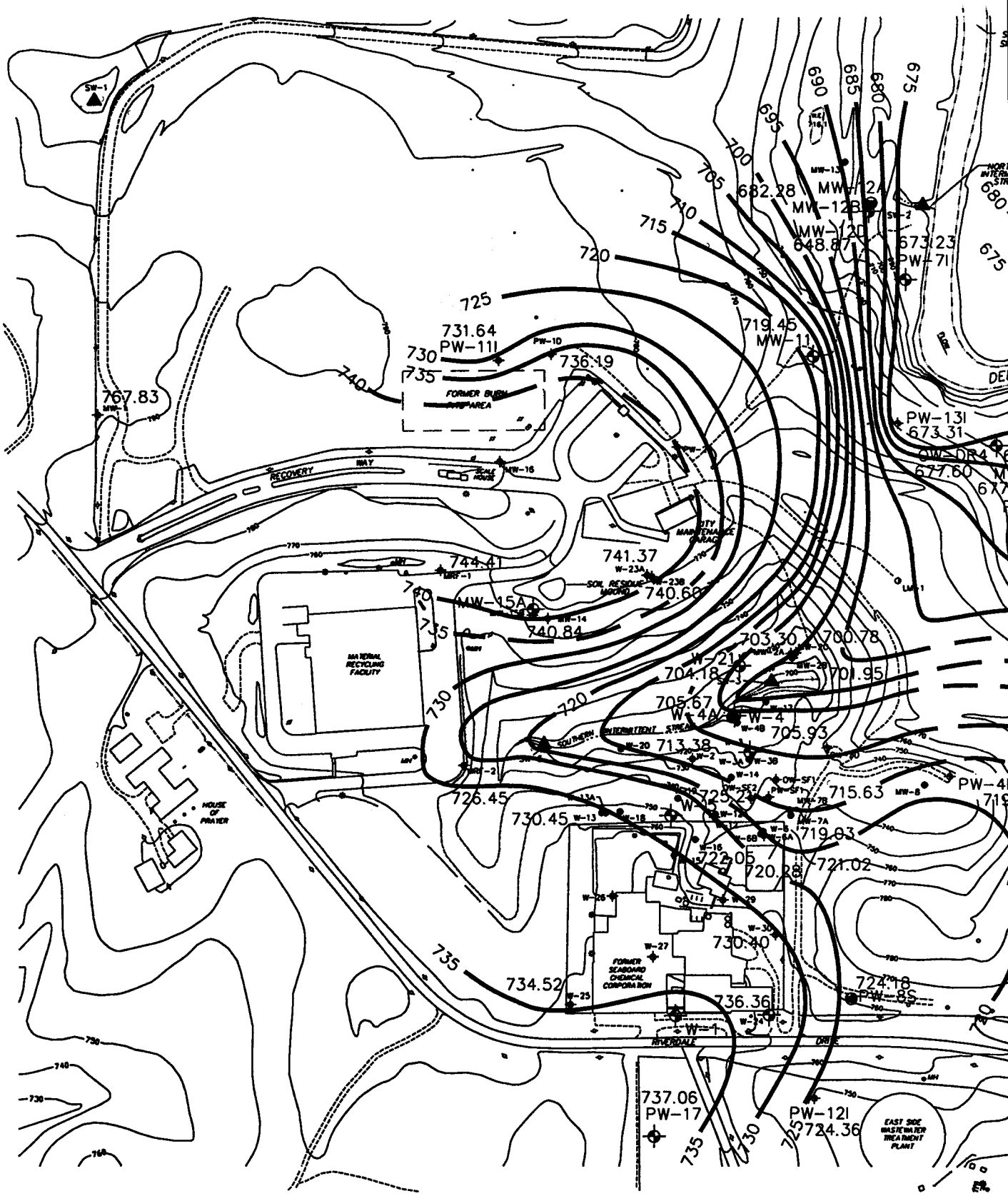
FIG 4A 9-03.DWG 11/10/03 1=300 CH/TW



Environmental Resources Management

GROUND WATER ELEVATIONS- BEDROCK AQUIFER- SEPT 11-12, 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

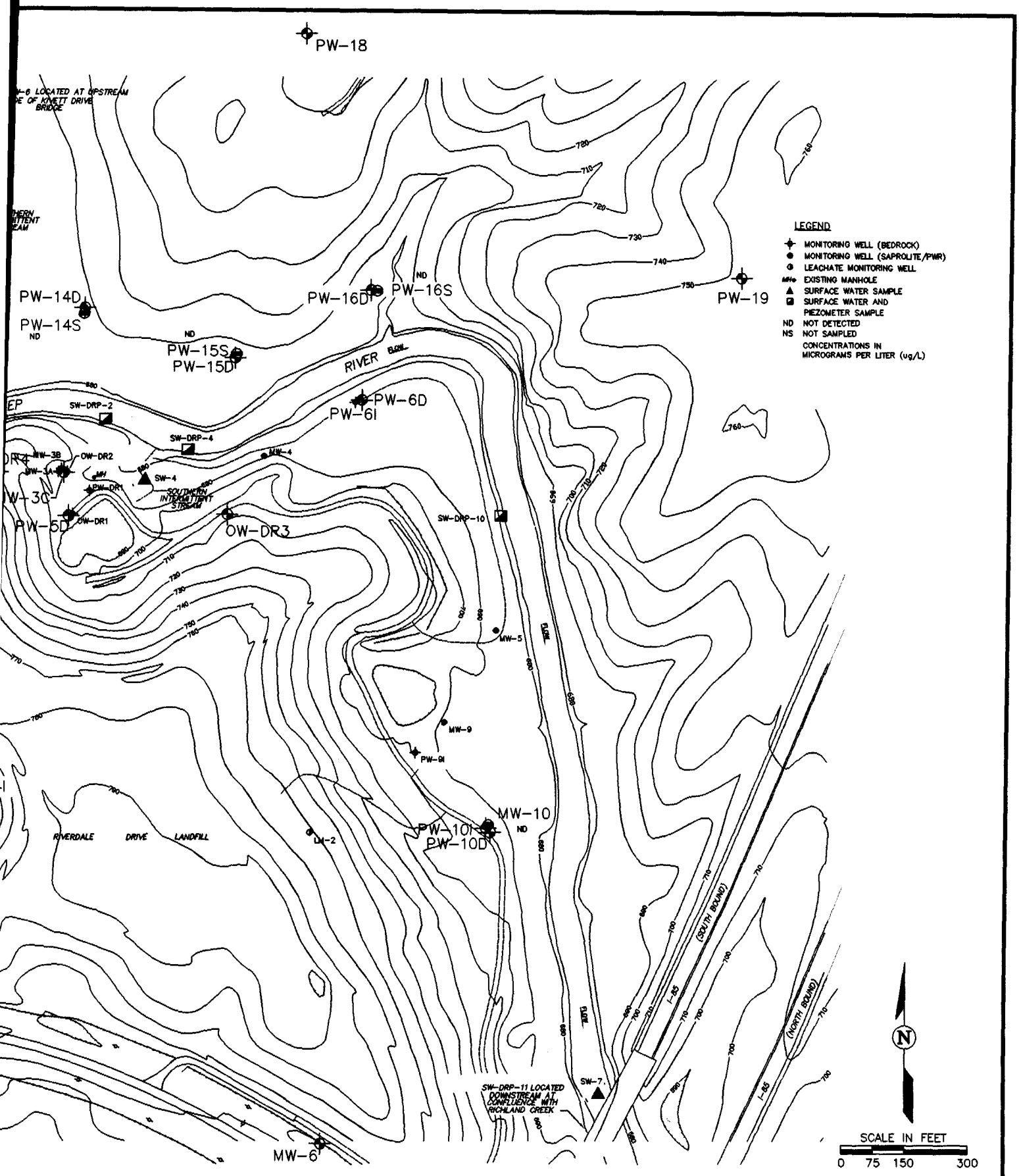
FIGURE **4B**



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

Fig 4B 9-03.DWG 11/10/03 1=300 CH/TW



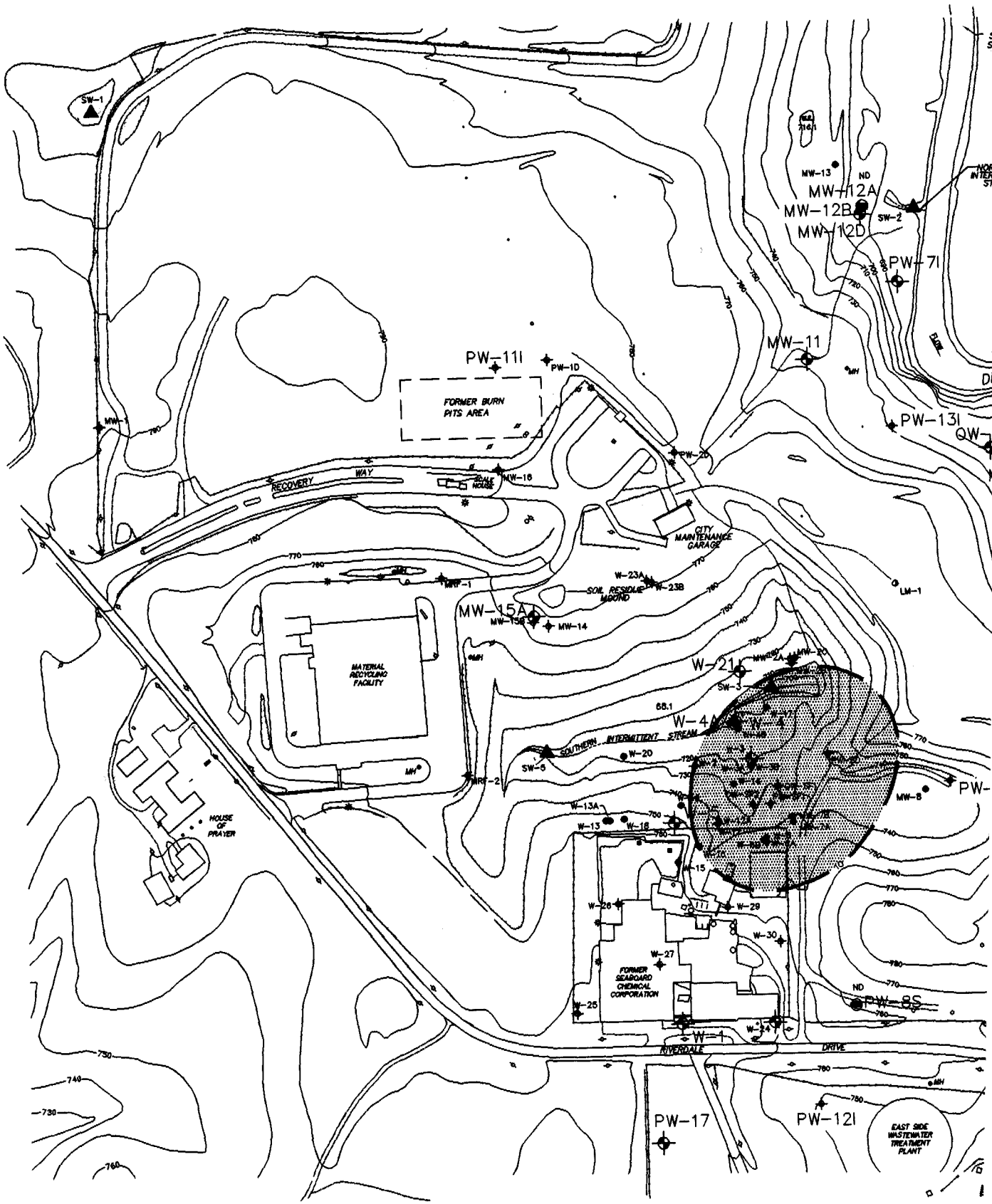
Environmental Resources Management

ERM

GROUND WATER QUALITY-SAPROLITE AQUIFER-1,2-DCA-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

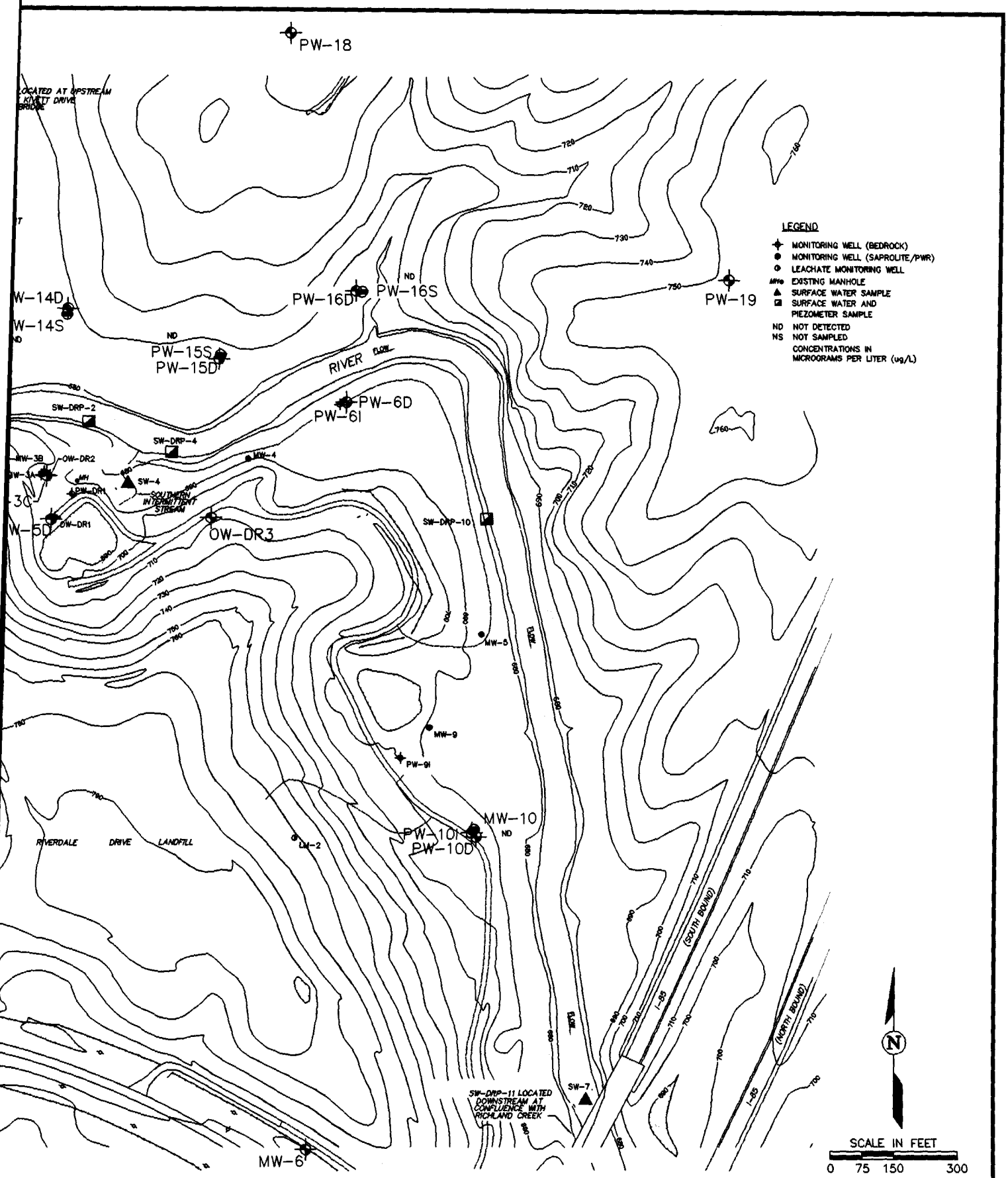
5A



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG5A 9-03.DWG 11/17/03 1=300 CH/TW



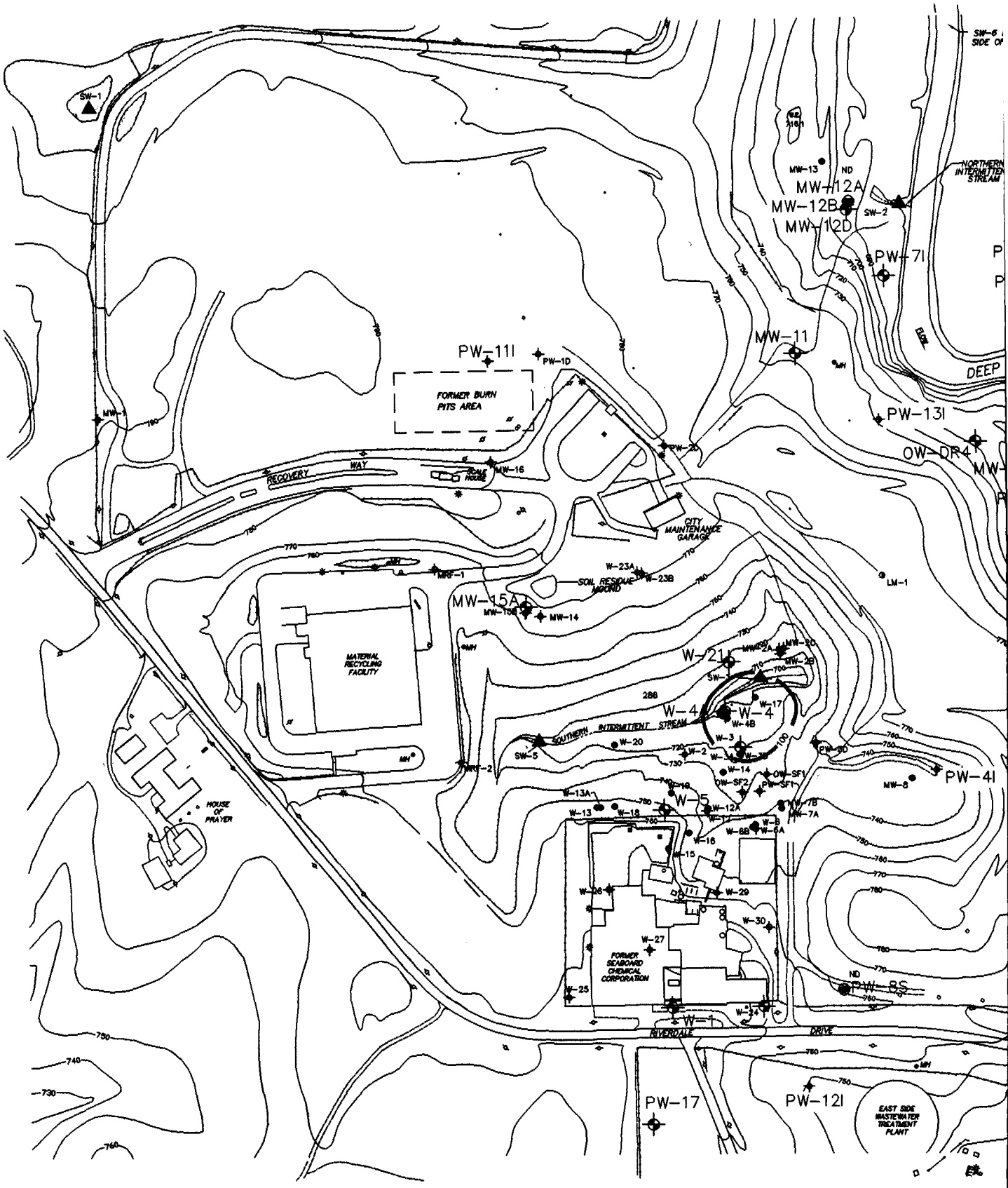
Environmental Resources Management

ERM

GROUND WATER QUALITY-SAPROLITE AQUIFER-VINYL CHLORIDE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

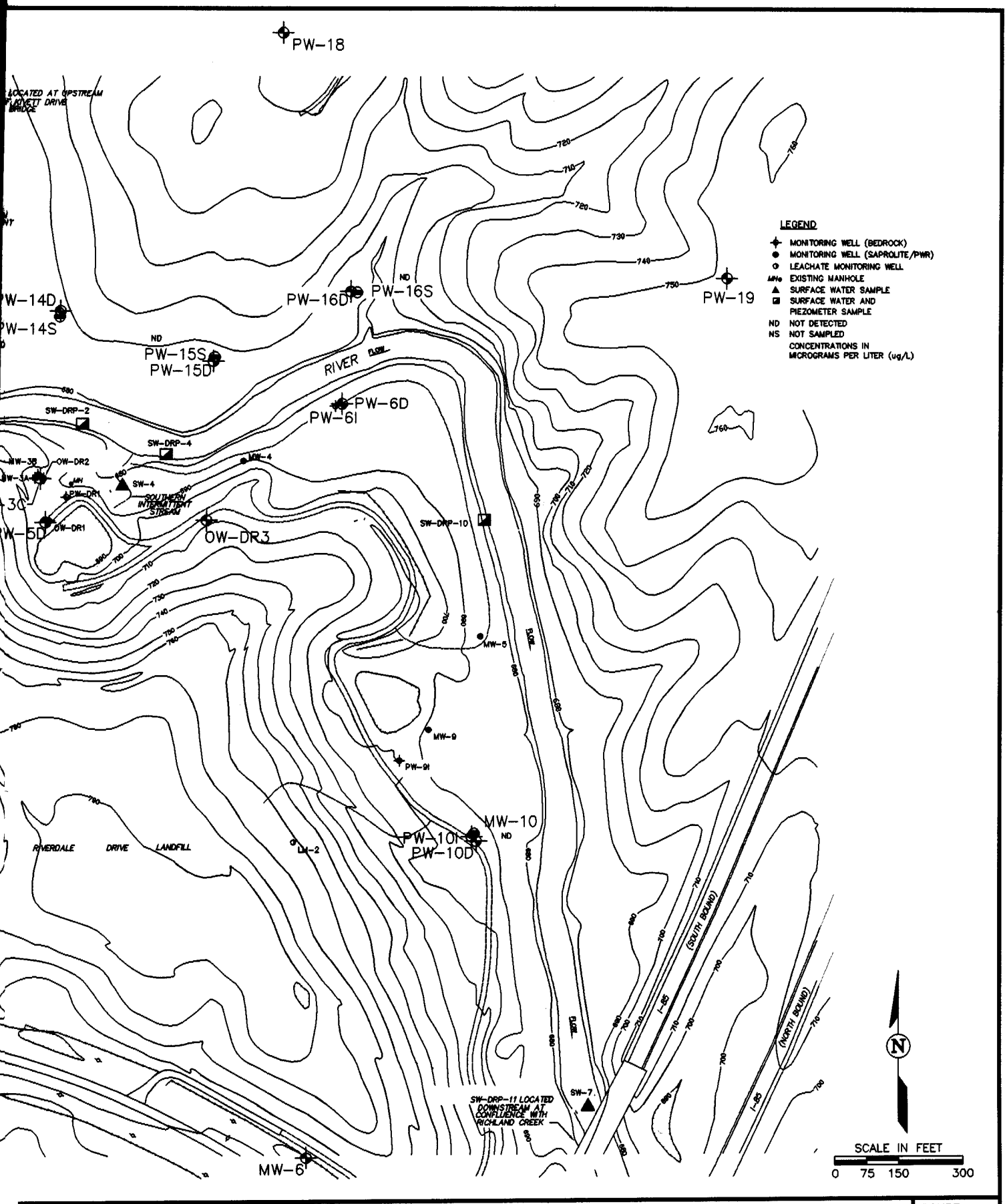
5B



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 5B 9-03.DWG 11/17/03 1=300 CH/TW



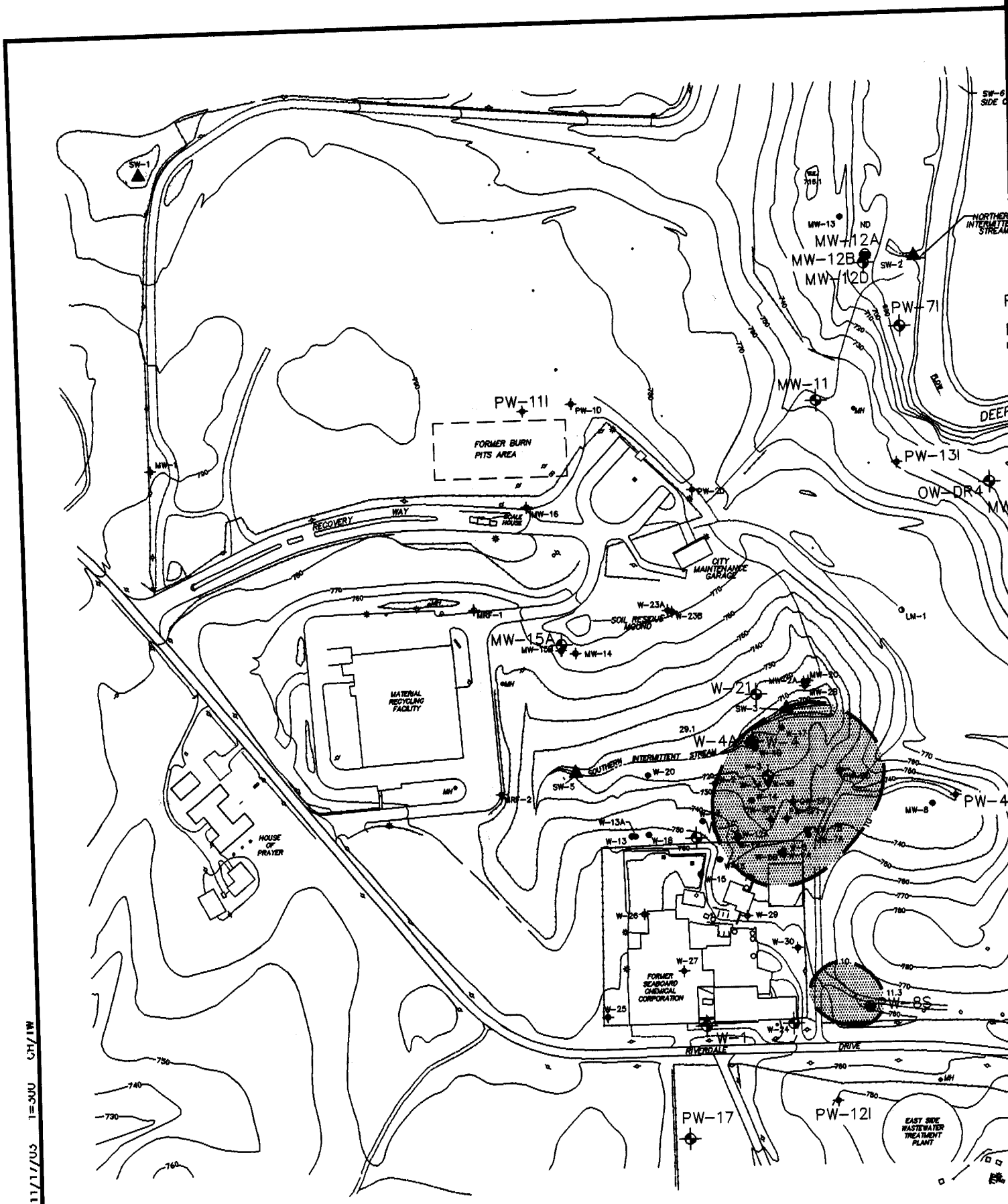
Environmental Resources Management

ERM

GROUND WATER QUALITY-SAPROLITE AQUIFER-CHLOROBENZENE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

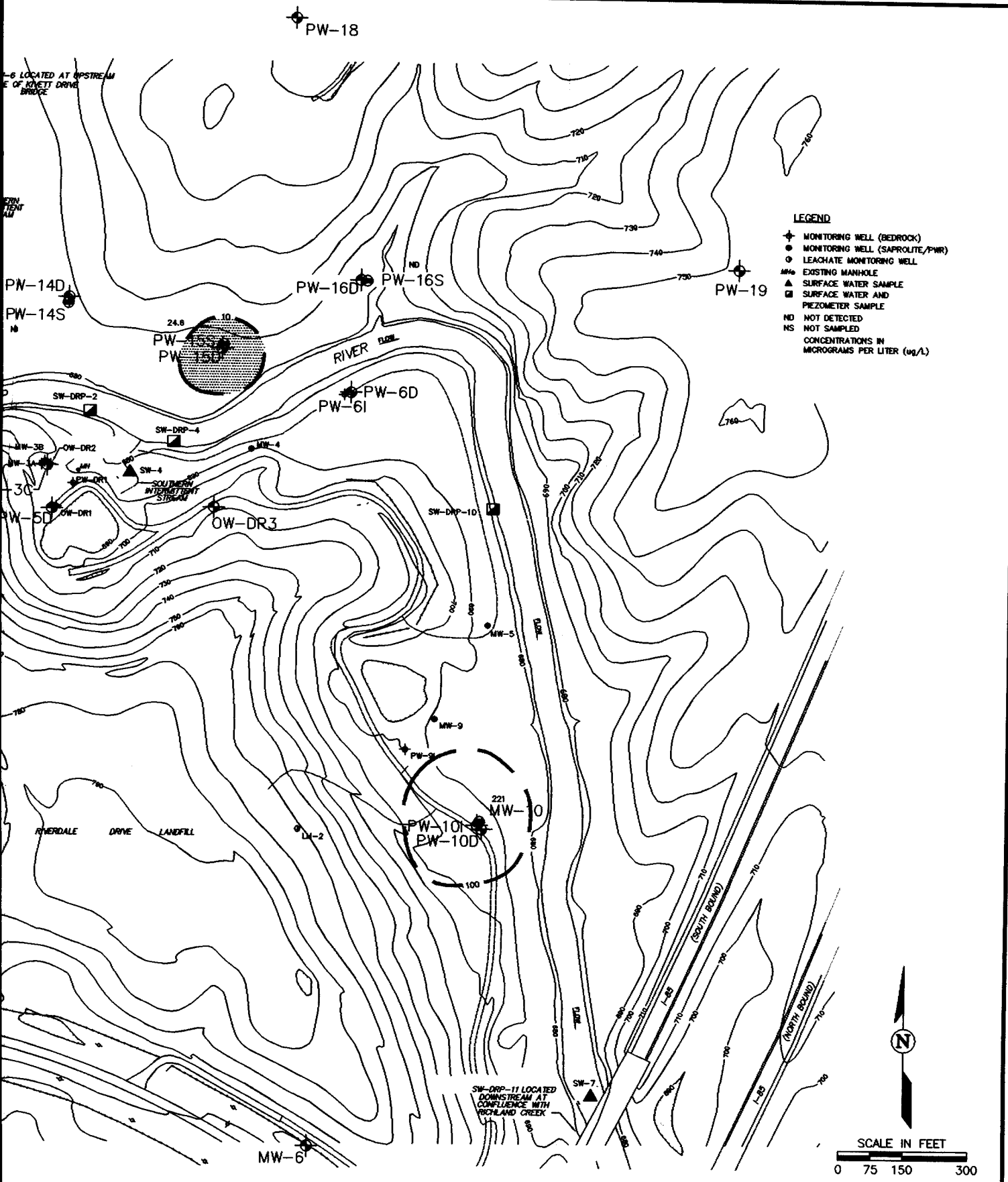
5C



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 3C 9-03.DWG 11/17/03 1=300 CH/IW

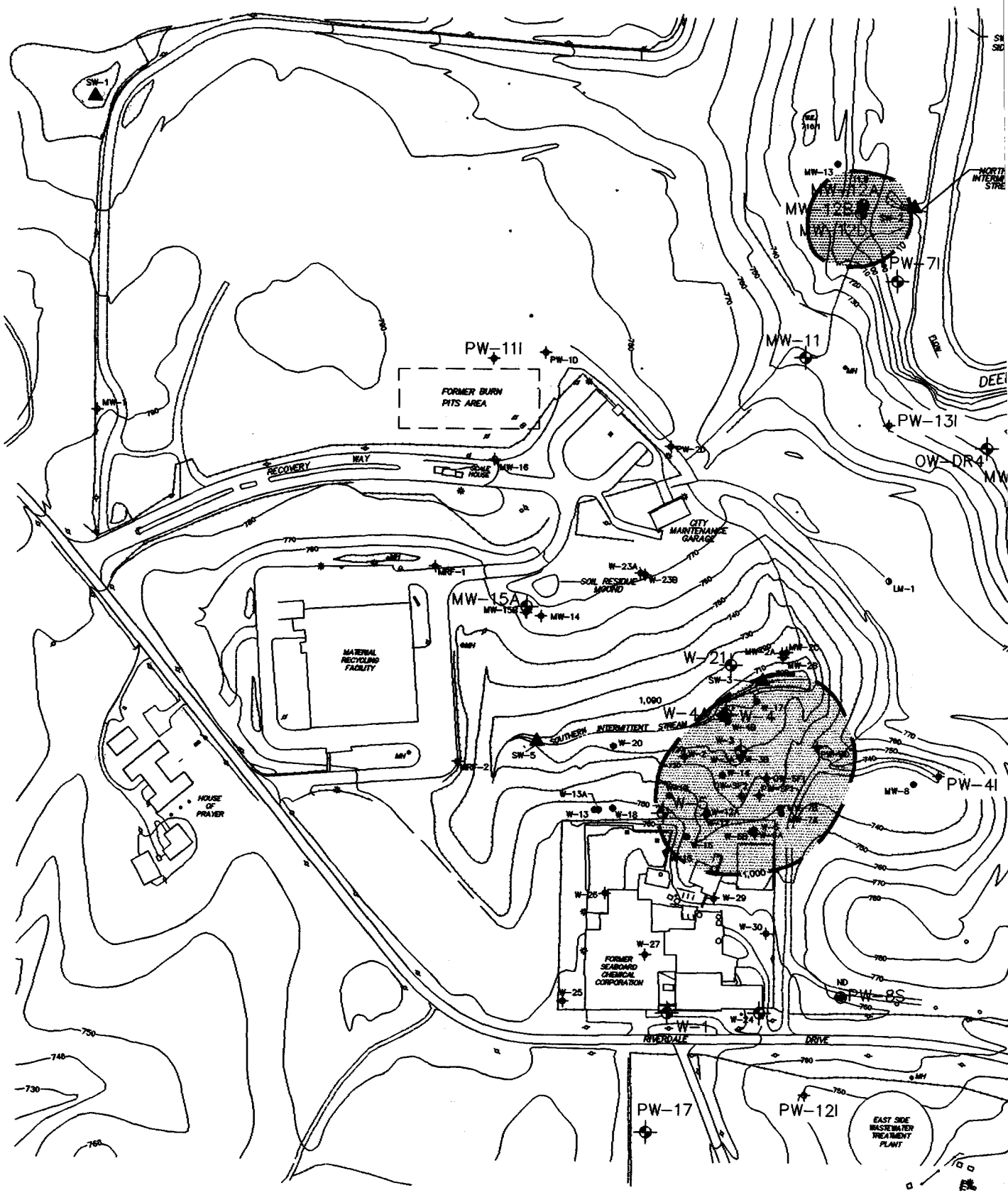


Environmental Resources Management

ERM

GROUND WATER QUALLITY-SAPROLITE AQUIFER-1,4-DIOXANE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

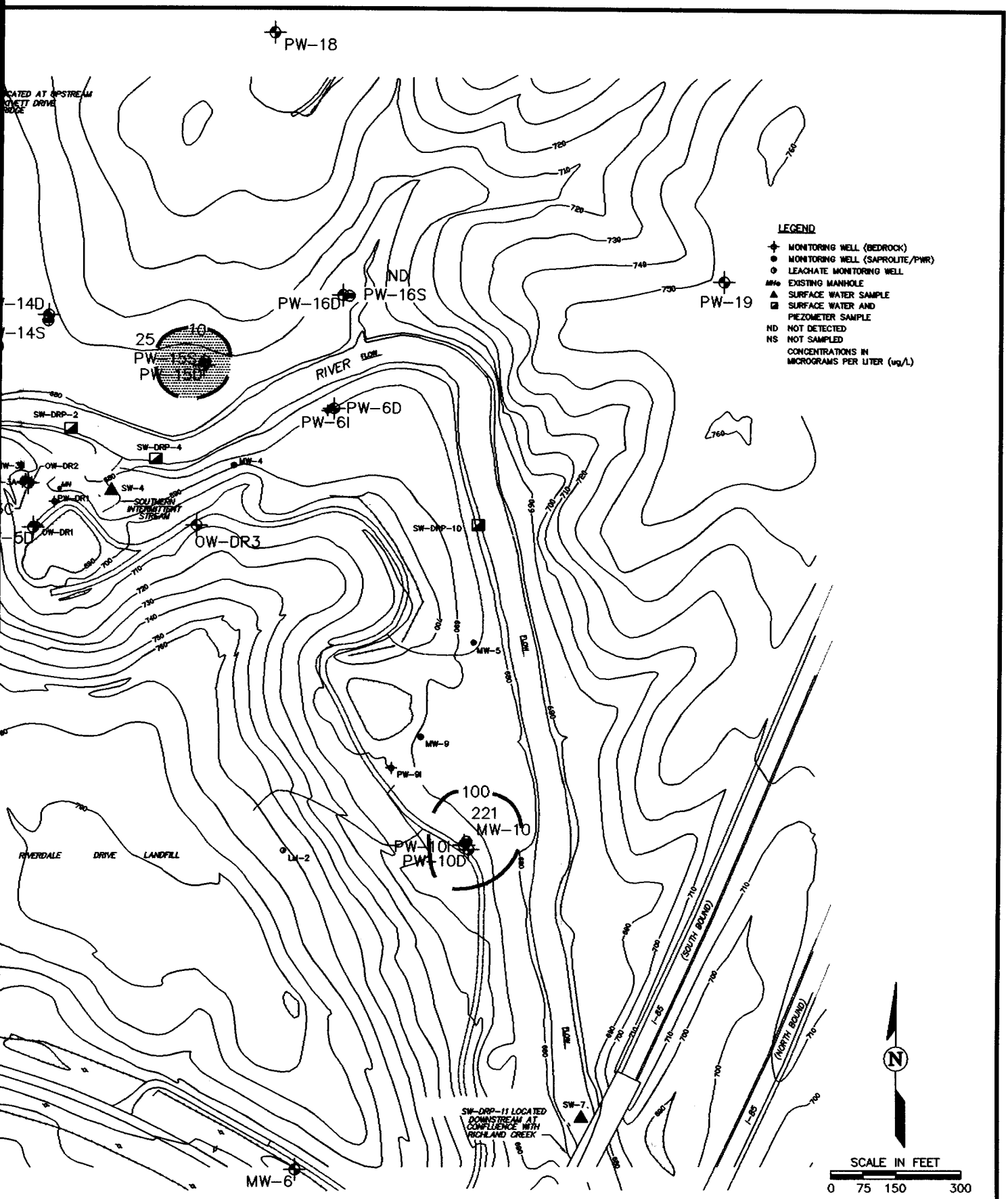
FIGURE **5D**



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 5D 9-03.DWG 11/17/03 1=300 CH/TW



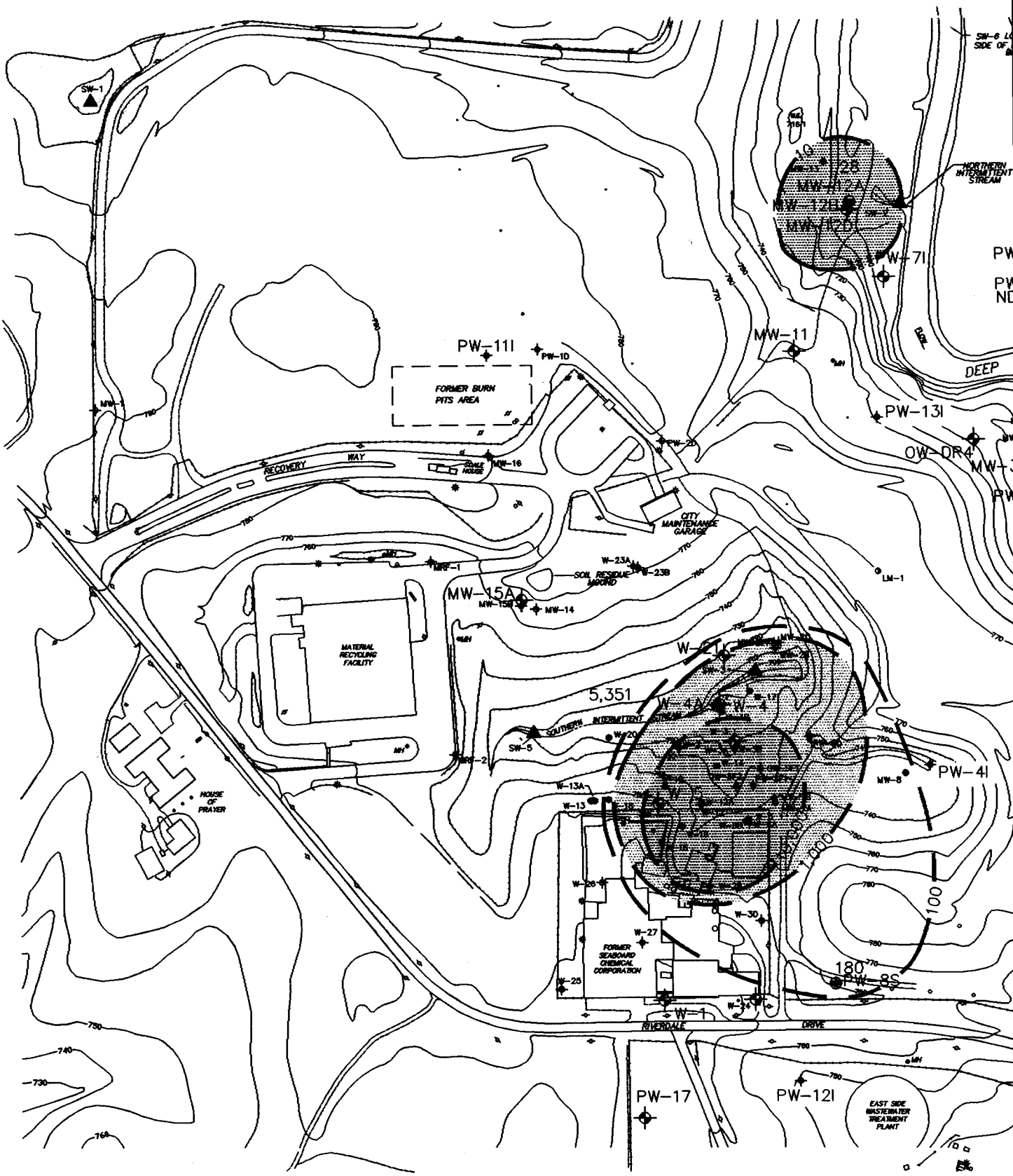
Environmental Resources Management

ERM

GROUND WATER QUALITY-SAPROLITE AQUIFER-TOTAL VOCS-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

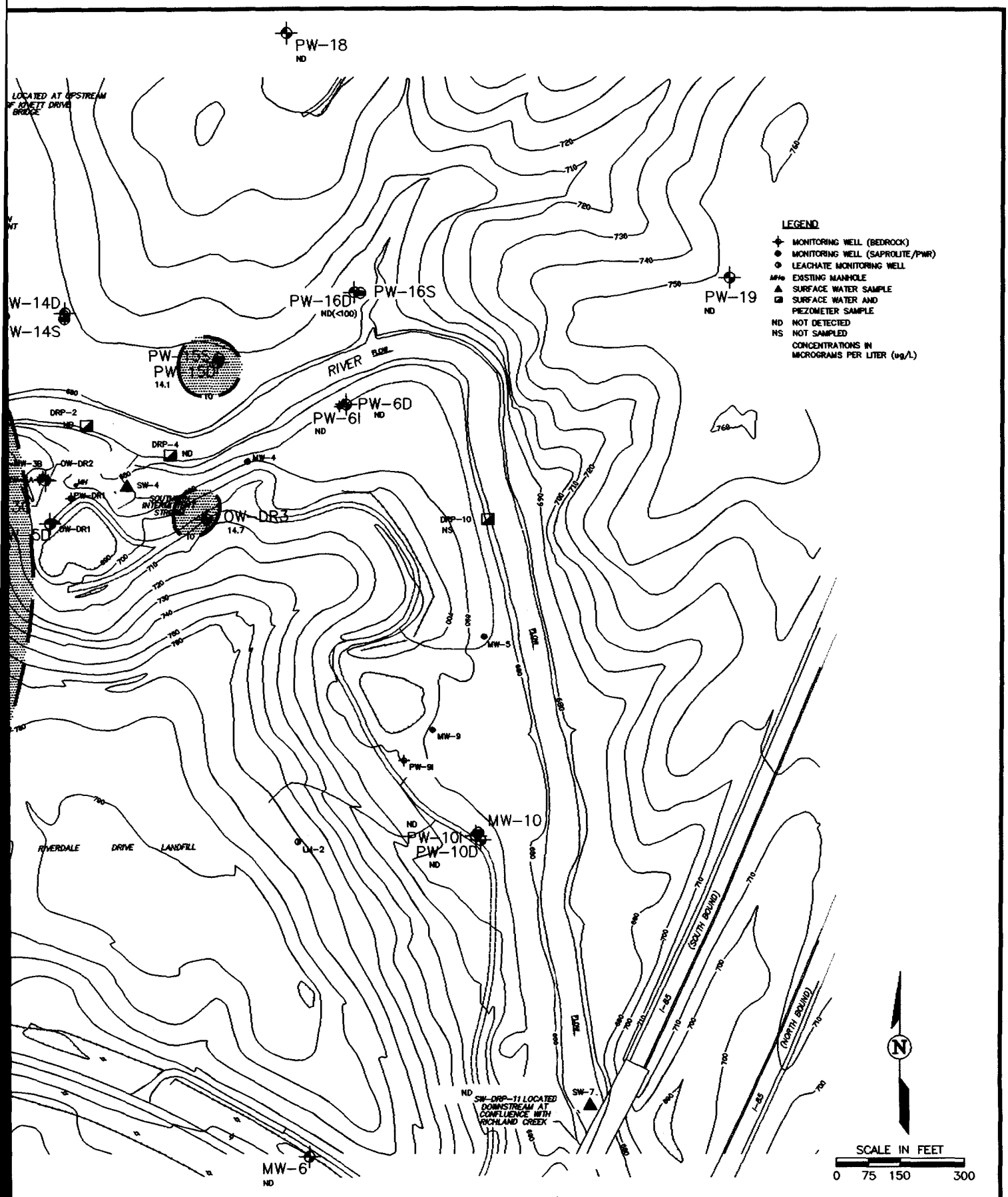
5E



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 5E 9-03.DWG 11/19/03 1=300 CH/TW



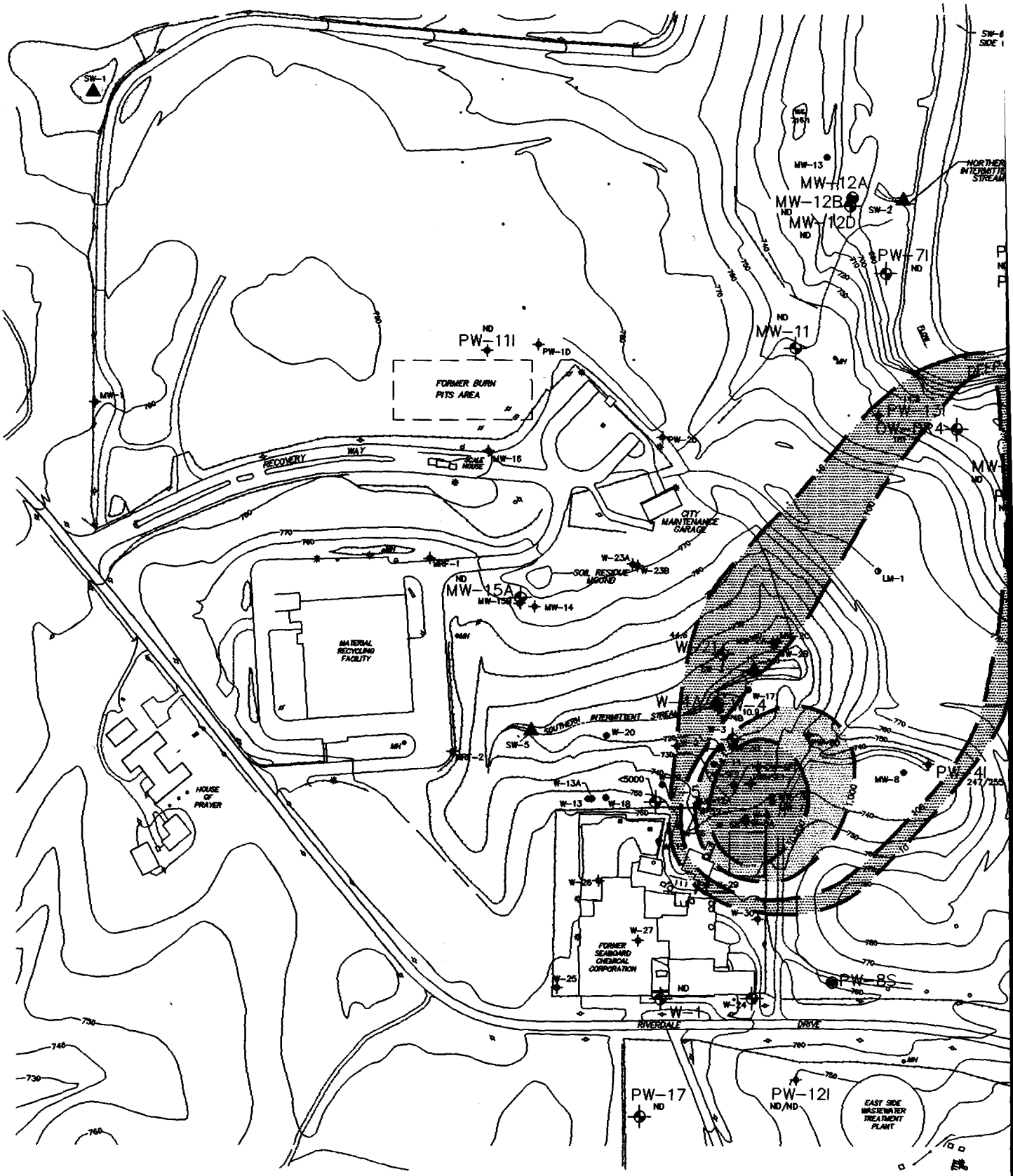
Environmental Resources Management

ERM

GROUND WATER QUALITY-BEDROCK AQUIFER-1,2-DCA-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE

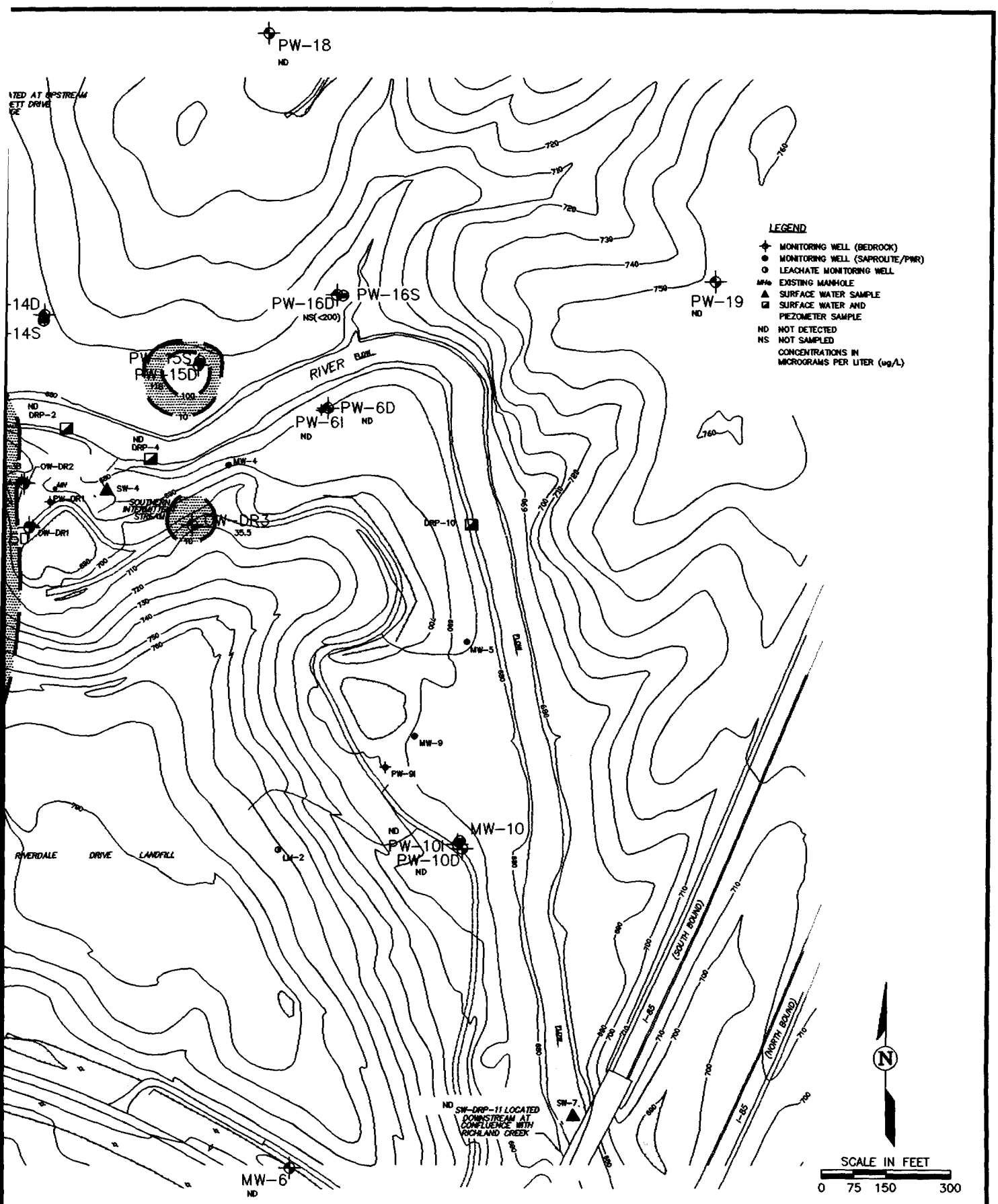
6A



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

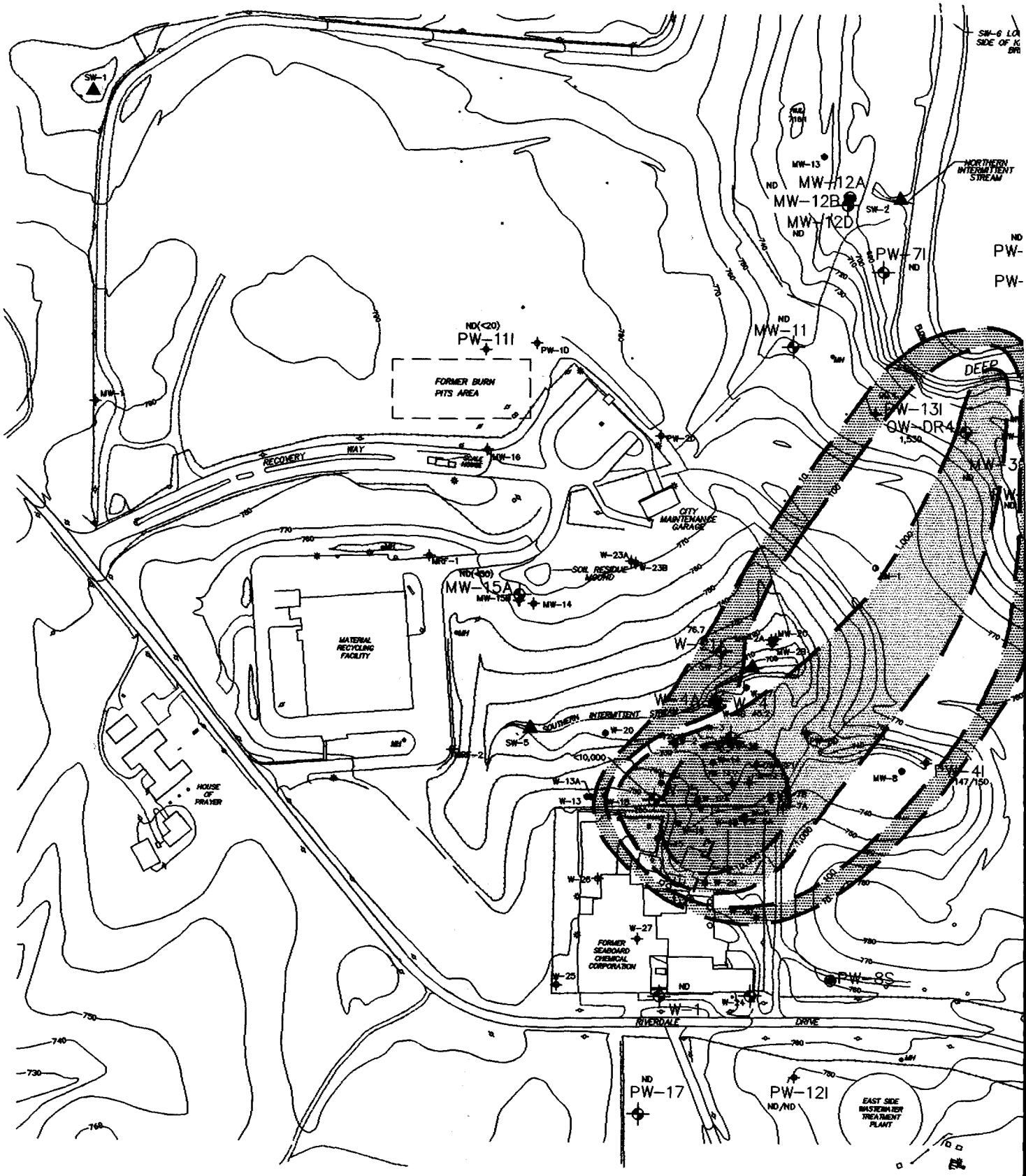
Fig 6A 9-03.DWG 11/14/03 1=300 CH/TW



ERM Environmental Resources Management

GROUND WATER QUALITY-BEDROCK AQUIFER-VINYL CHLORIDE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

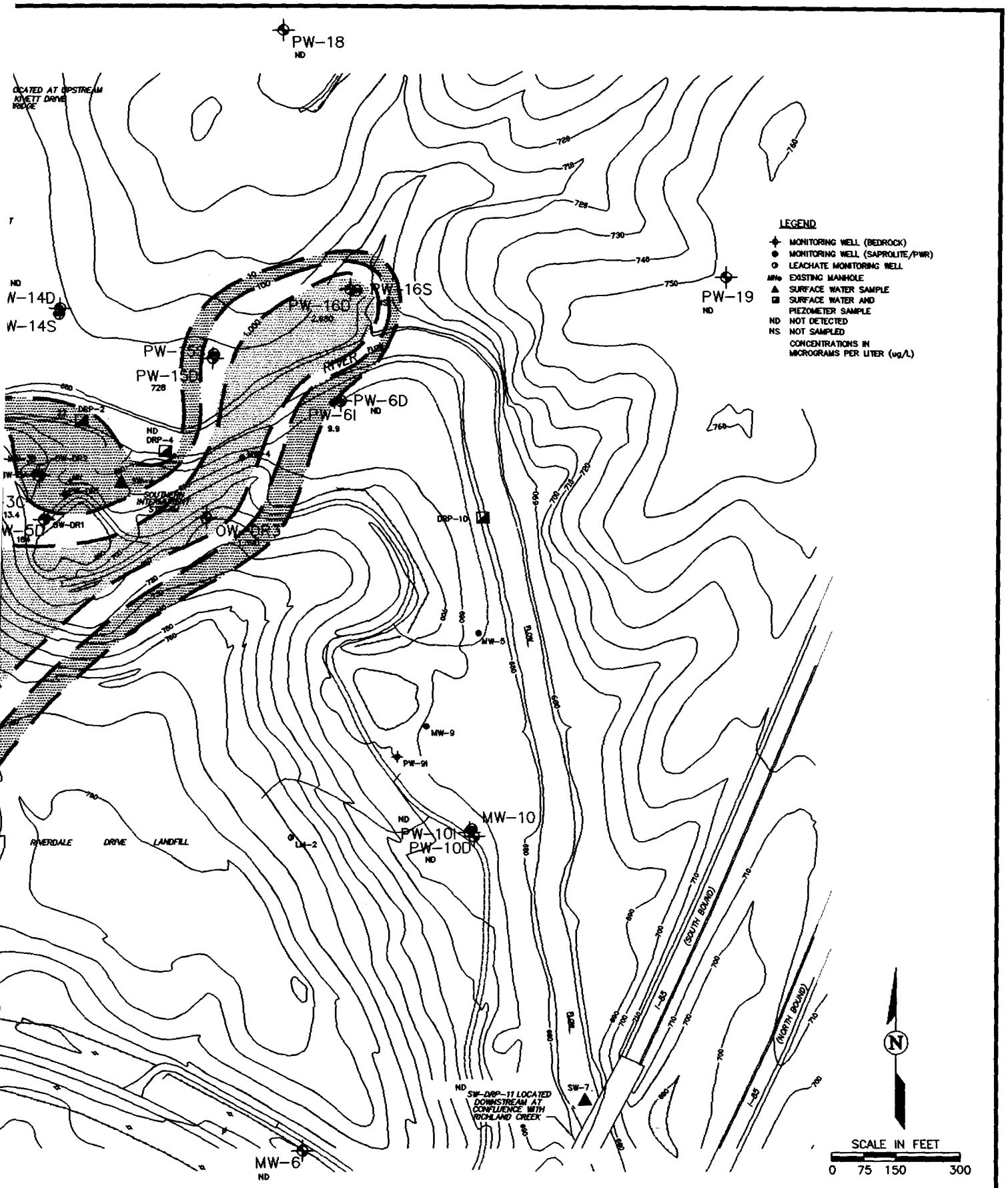
FIGURE **6B**



BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 6B 9-03.DWG 11/14/03 1=300 CH/TW



Environmental Resources Management

ERM

GROUND WATER QUALITY-BEDROCK AQUIFER-CHLOROBENZENE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

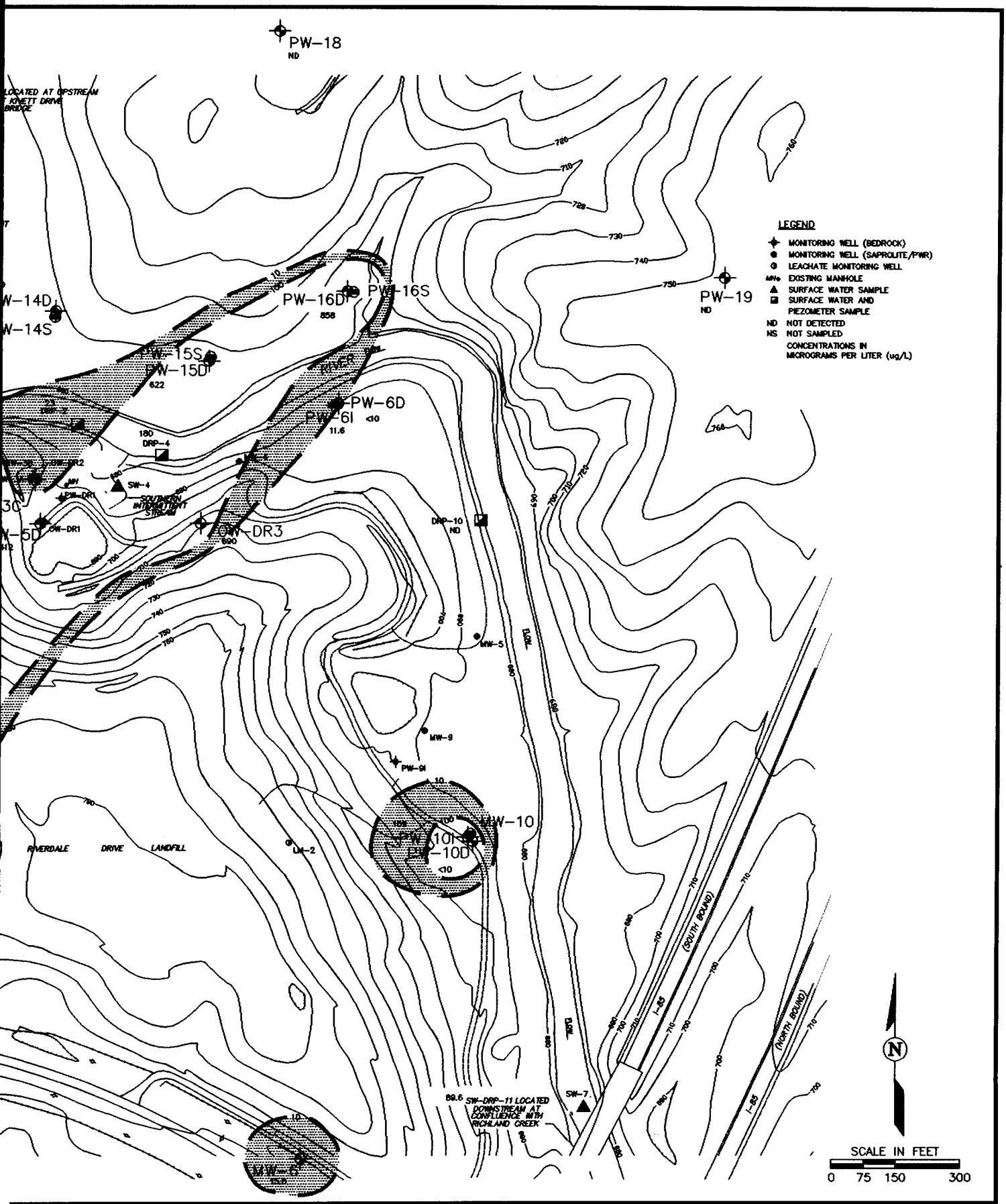
FIGURE

6C

BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

Fig 6C 9-03.DWG 11/14/03 1=300 CH/TW



Environmental Resources Management

ERM

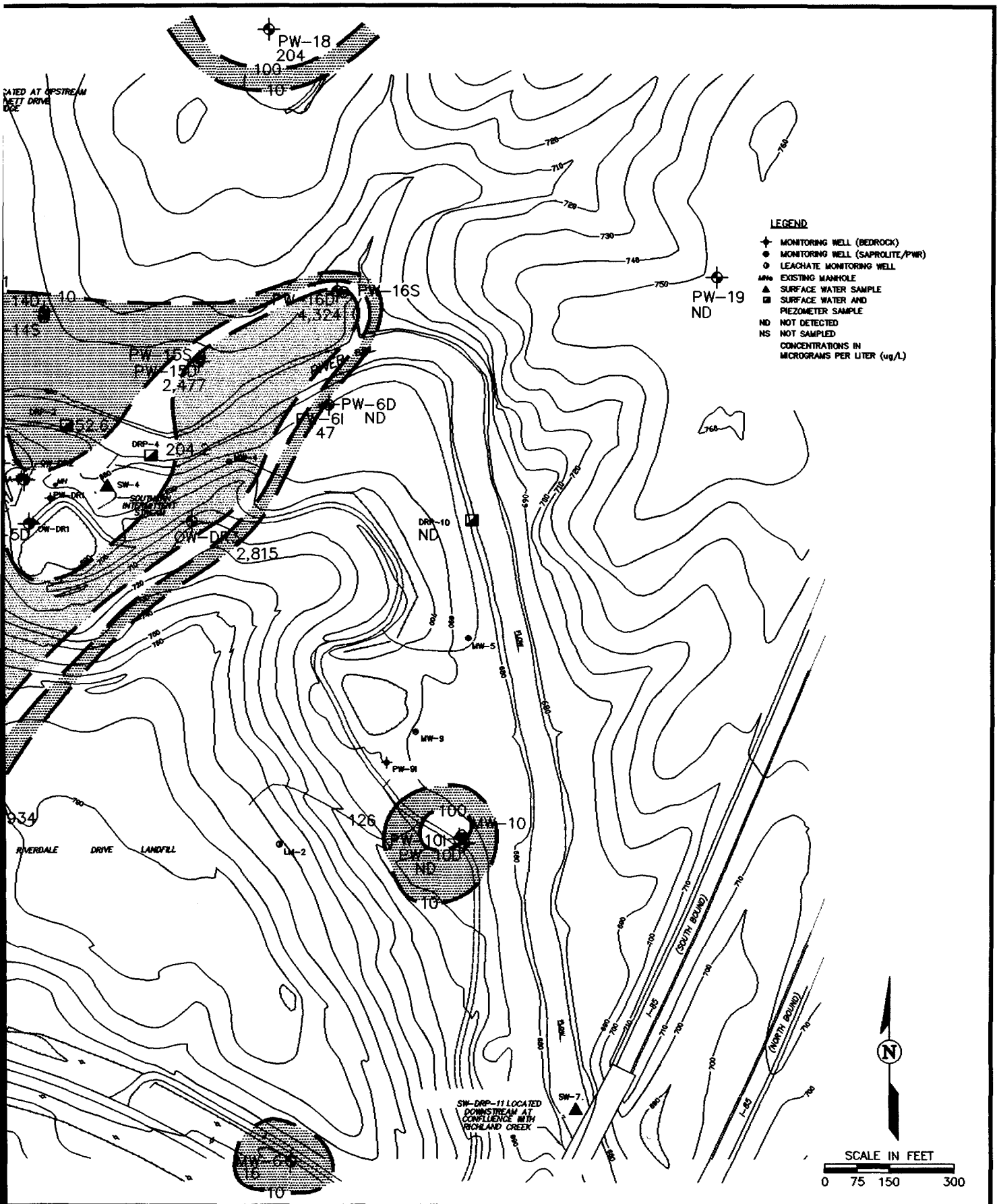
GROUND WATER QUALITY-BEDROCK AQUIFER-1,4-DIOXANE-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE
6D

BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

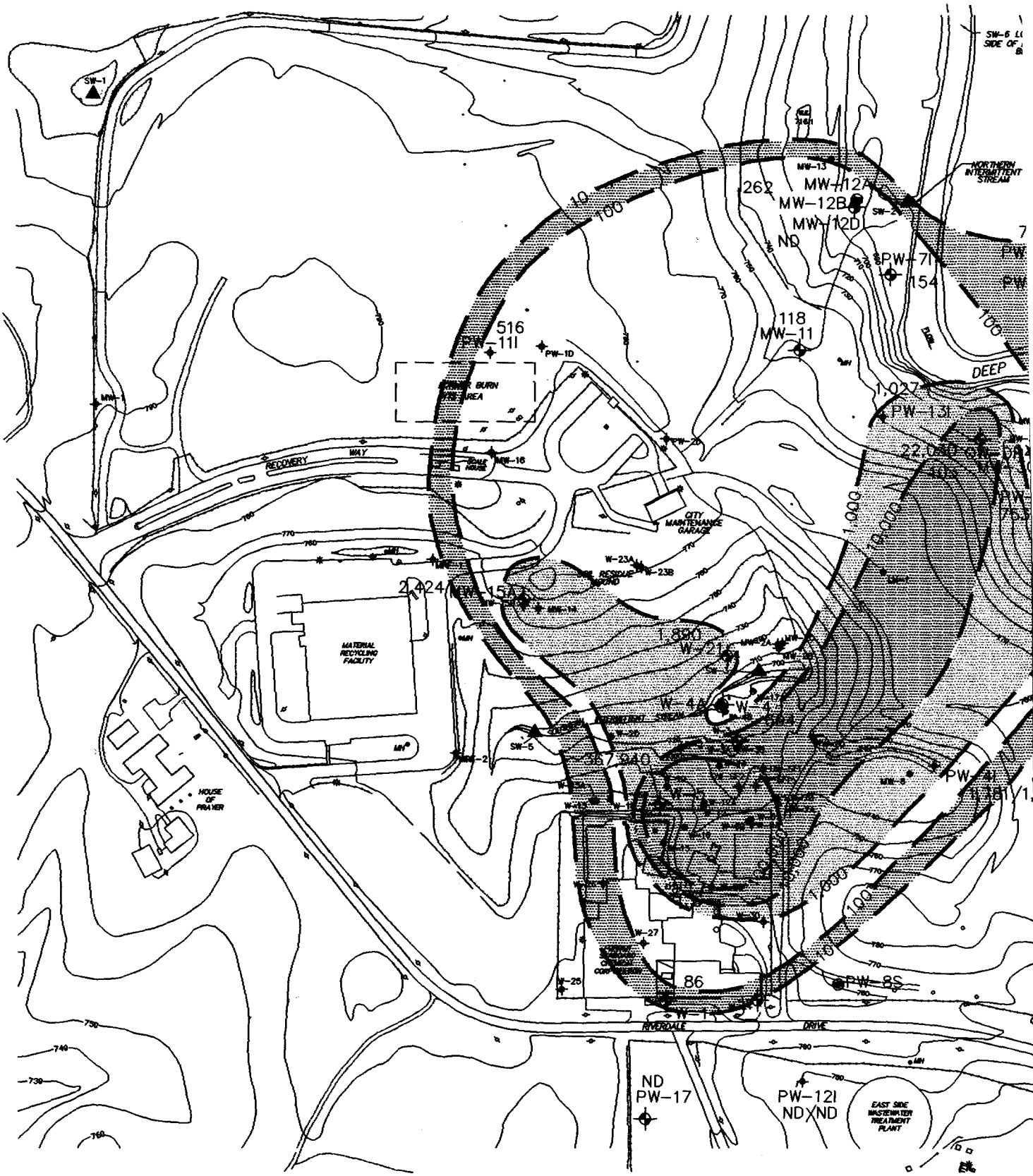
FIG 6D 9-03.DWG 11/21/03 1=300 CH/TW



ERM Environmental Resources Management

GROUND WATER QUALITY-BEDROCK AQUIFER-TOTAL VOCs-SEPT 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

FIGURE **6E**

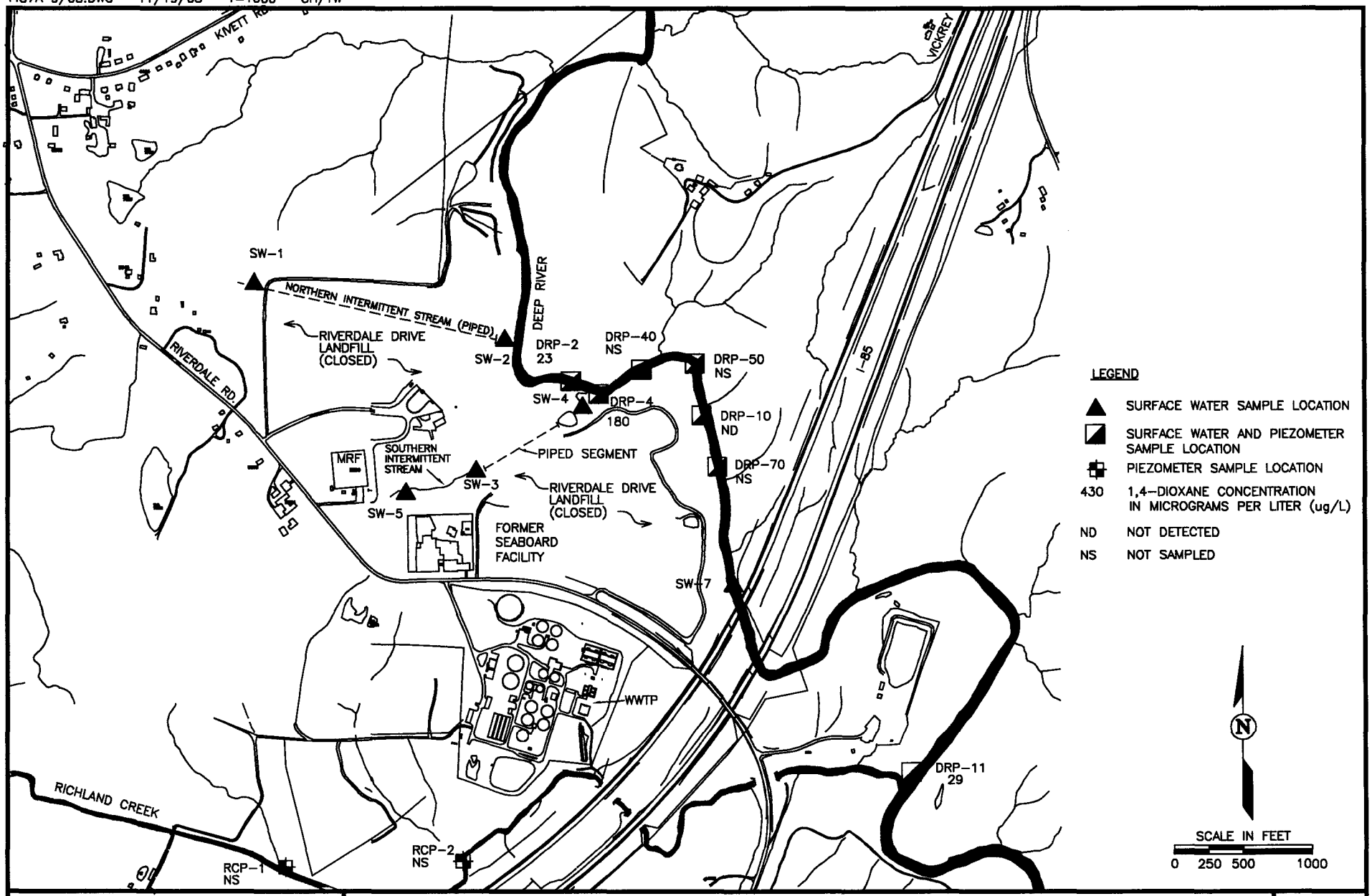


BASE MAP FROM BBL REMEDIAL INVESTIGATION REPORT, MARCH 1999.

NOTE: WELLS TO BE SAMPLED SHOWN IN ENLARGED TYPE

FIG 6E 9-03.DWG 11/20/03 1=300 CH/TW

FIG7A 9/03.DWG 11/19/03 1=1000 CH/TW



Environmental Resources Management

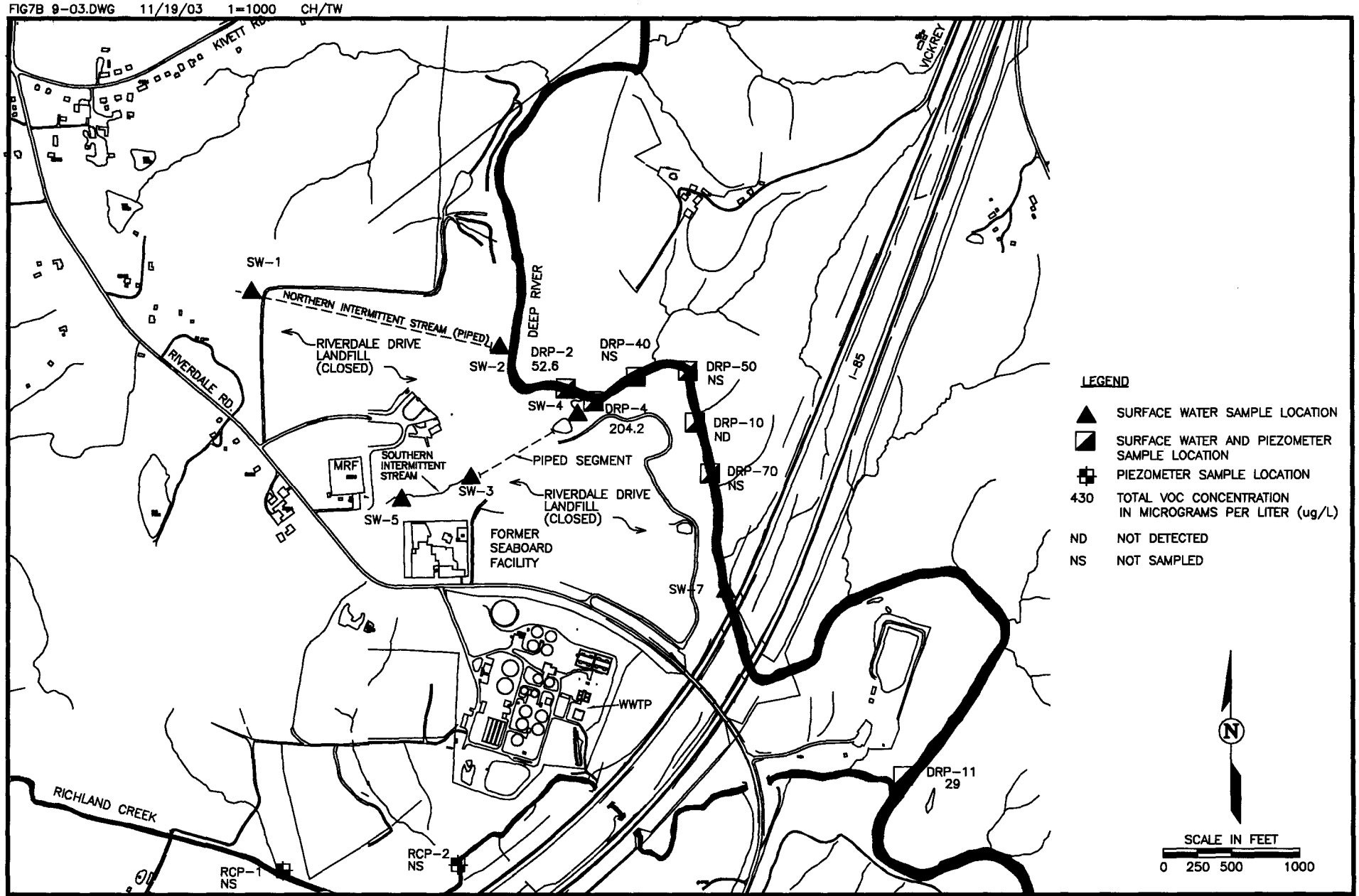
ERM

GROUND WATER QUALITY- STREAMBED PIEZOMETERS
1,4-DIOXANE- SEPTEMBER 2003
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE

7A

FIG7B 9-03.DWG 11/19/03 1=1000 CH/TW



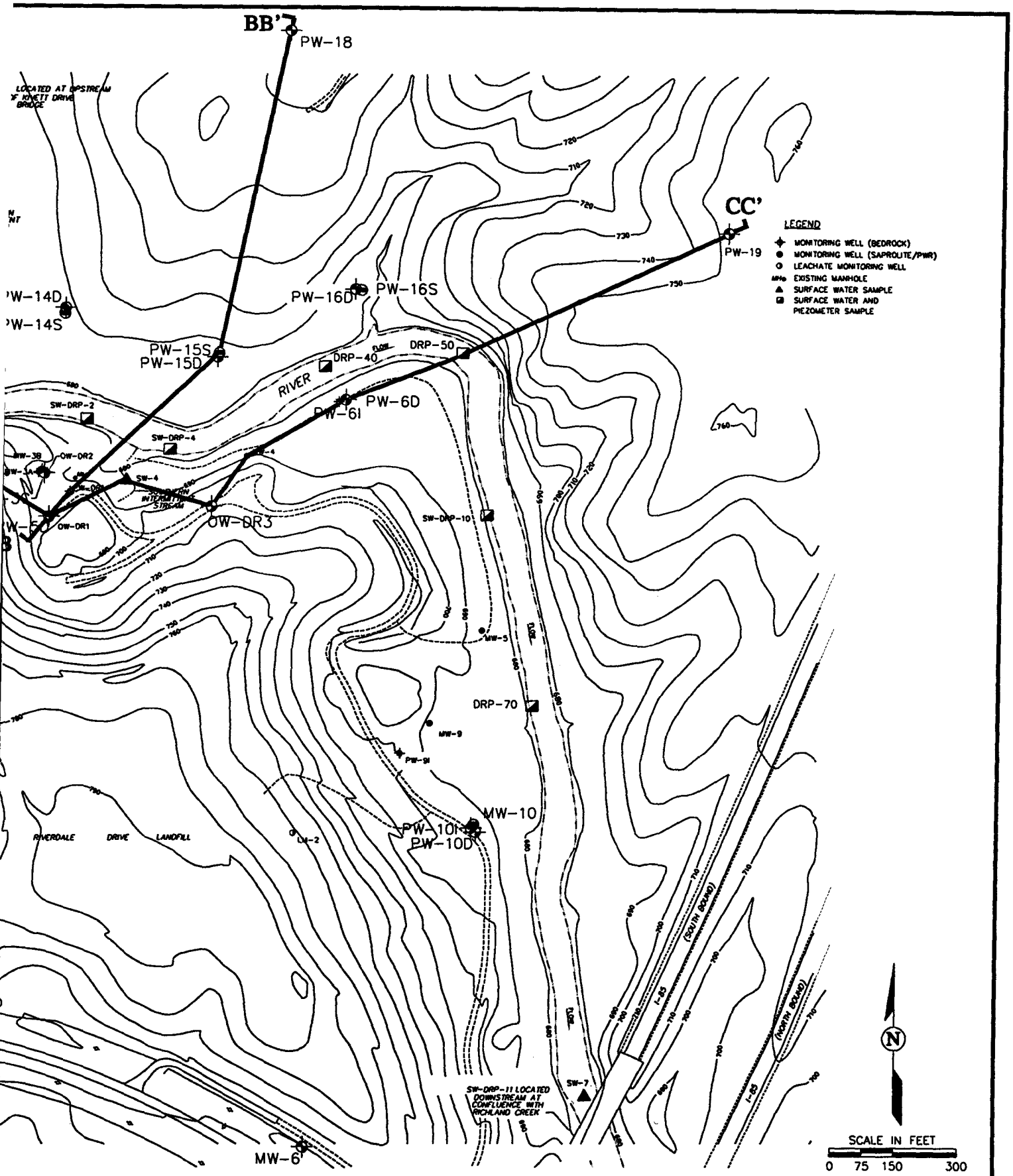
Environmental Resources Management

ERM

GROUND WATER QUALITY- STREAMBED PIEZOMETERS
TOTAL VOCs- SEPTEMBER 2003
FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE

7B



Environmental Resources Management

ERM

LOCATIONS OF HYDROGEOLOGIC CROSS SECTIONS

FORMER SEABOARD CHEMICAL/RIVERDALE DRIVE LANDFILL SITE

JAMESTOWN, NORTH CAROLINA

FIGURE

8

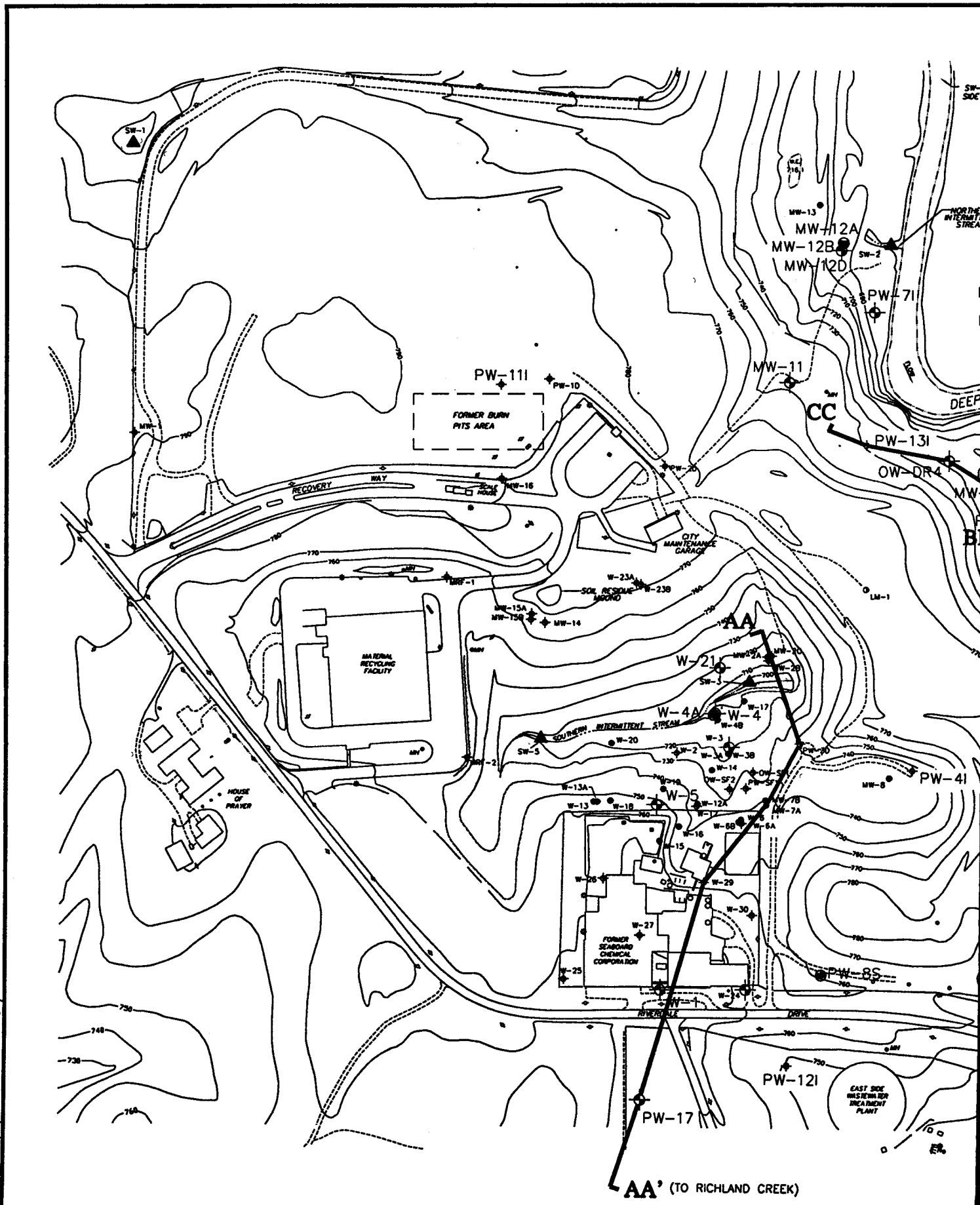
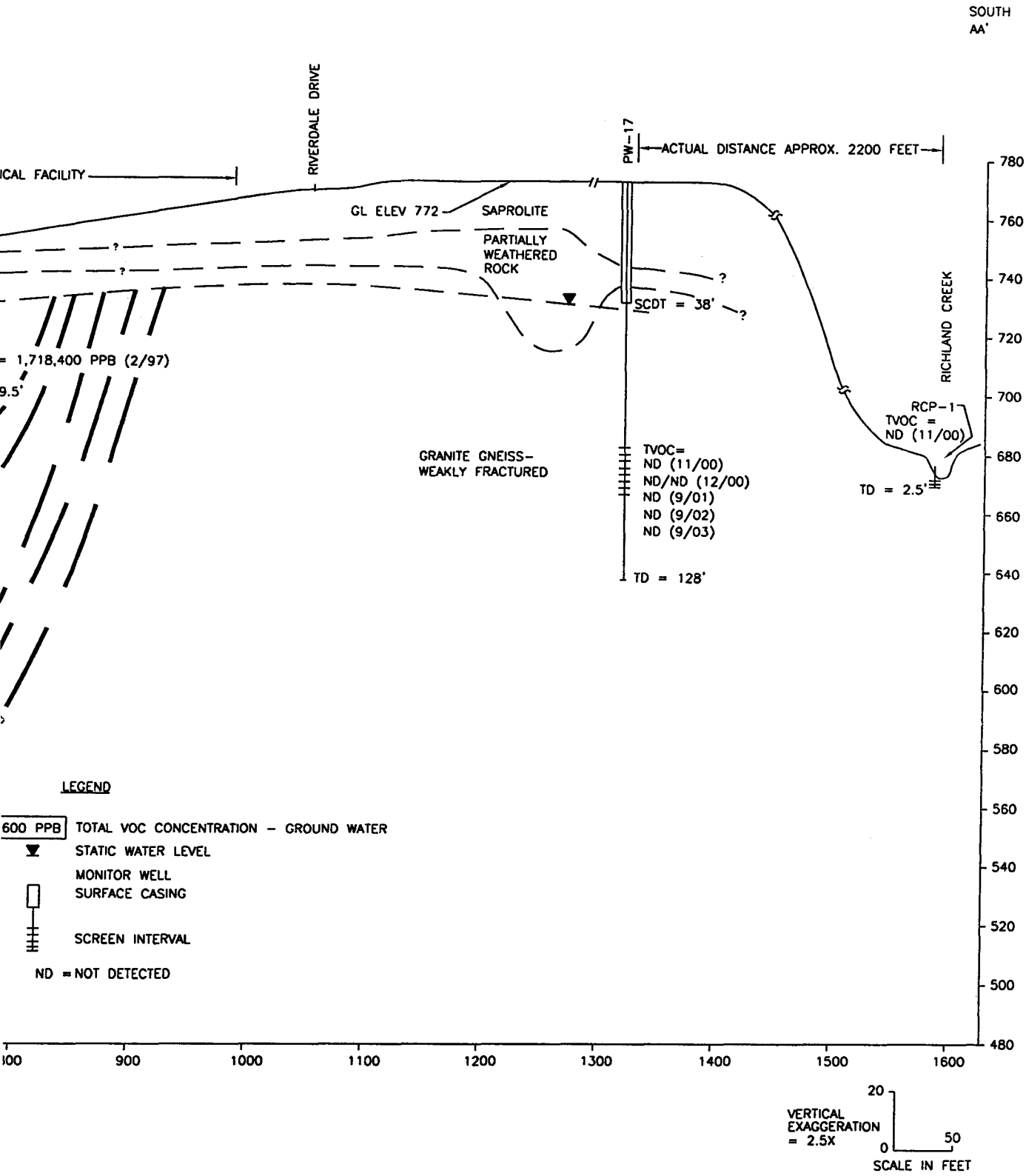


FIG 8 9-02.DWG 11/7/02 1=300 CH/TW



Environmental Resources Management

ERM

HYDROGEOLOGIC CROSS-SECTION AA-AA'

FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LANDFILL SITE JAMESTOWN, NORTH CAROLINA

FIGURE

8AA

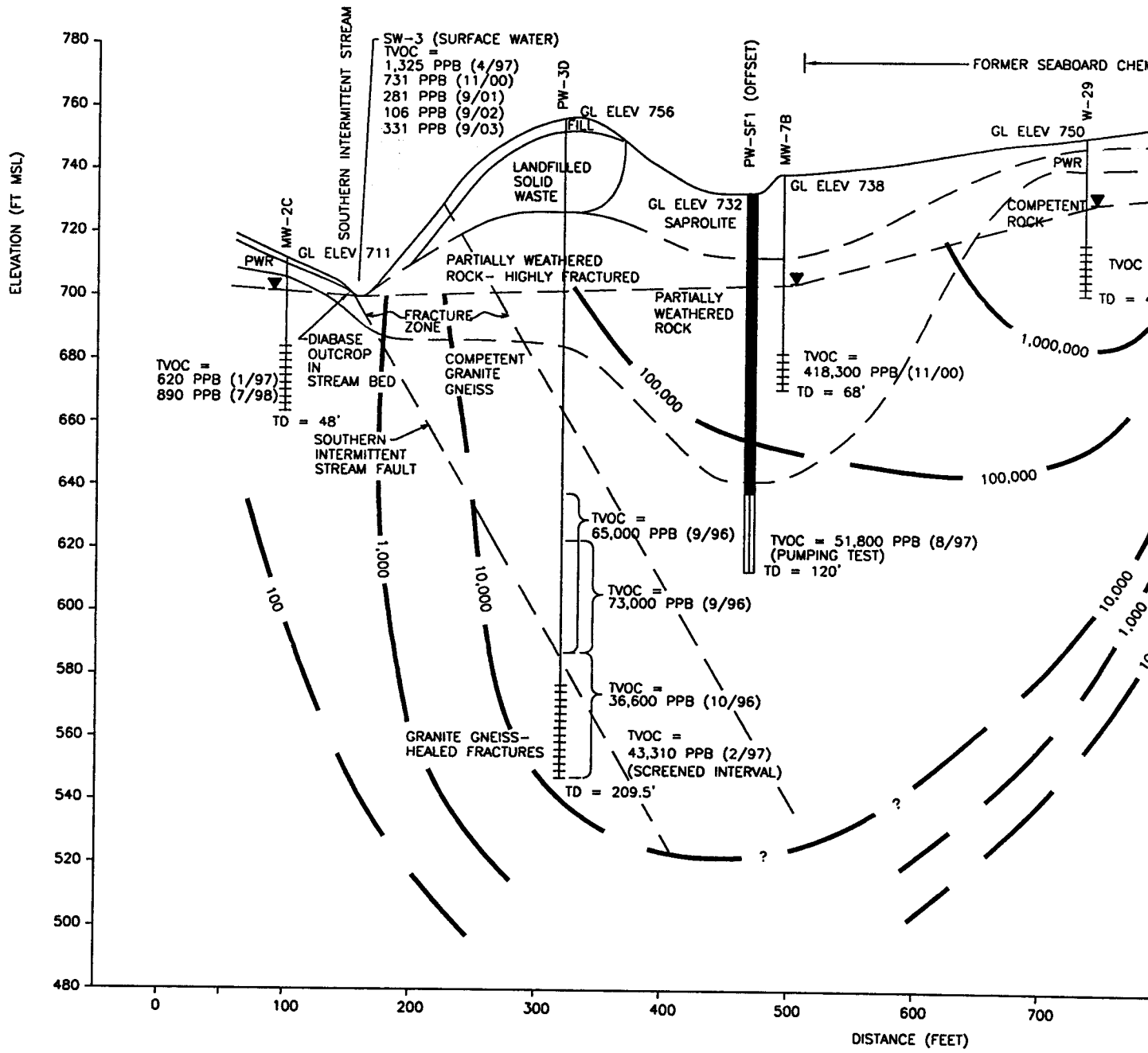
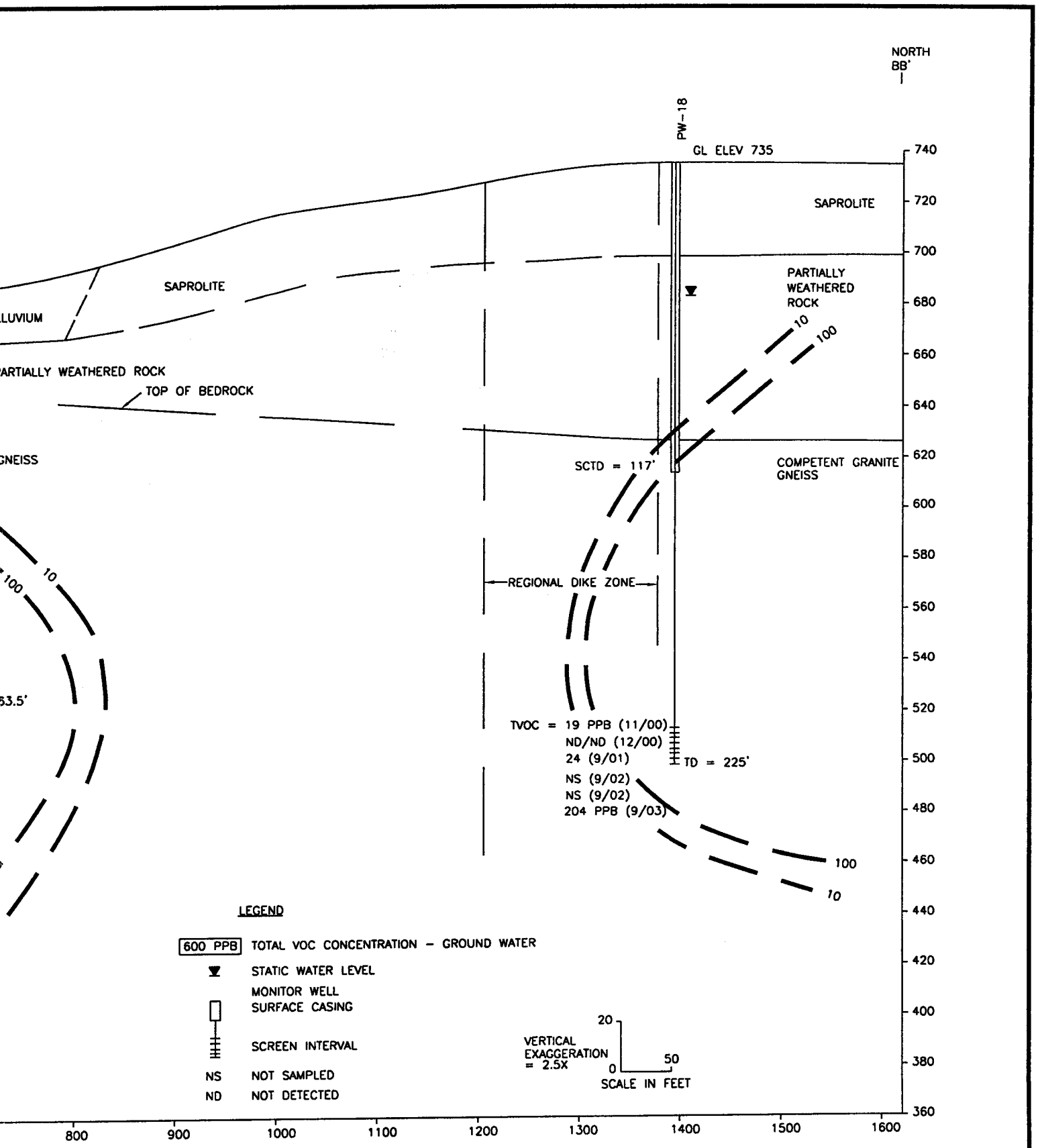


FIG BAA 9-03.DWG 11/17/03 1=1 CH/TW



Environmental Resources Management

ERM

HYDROGEOLOGIC CROSS-SECTION BB-BB'
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE

8BB

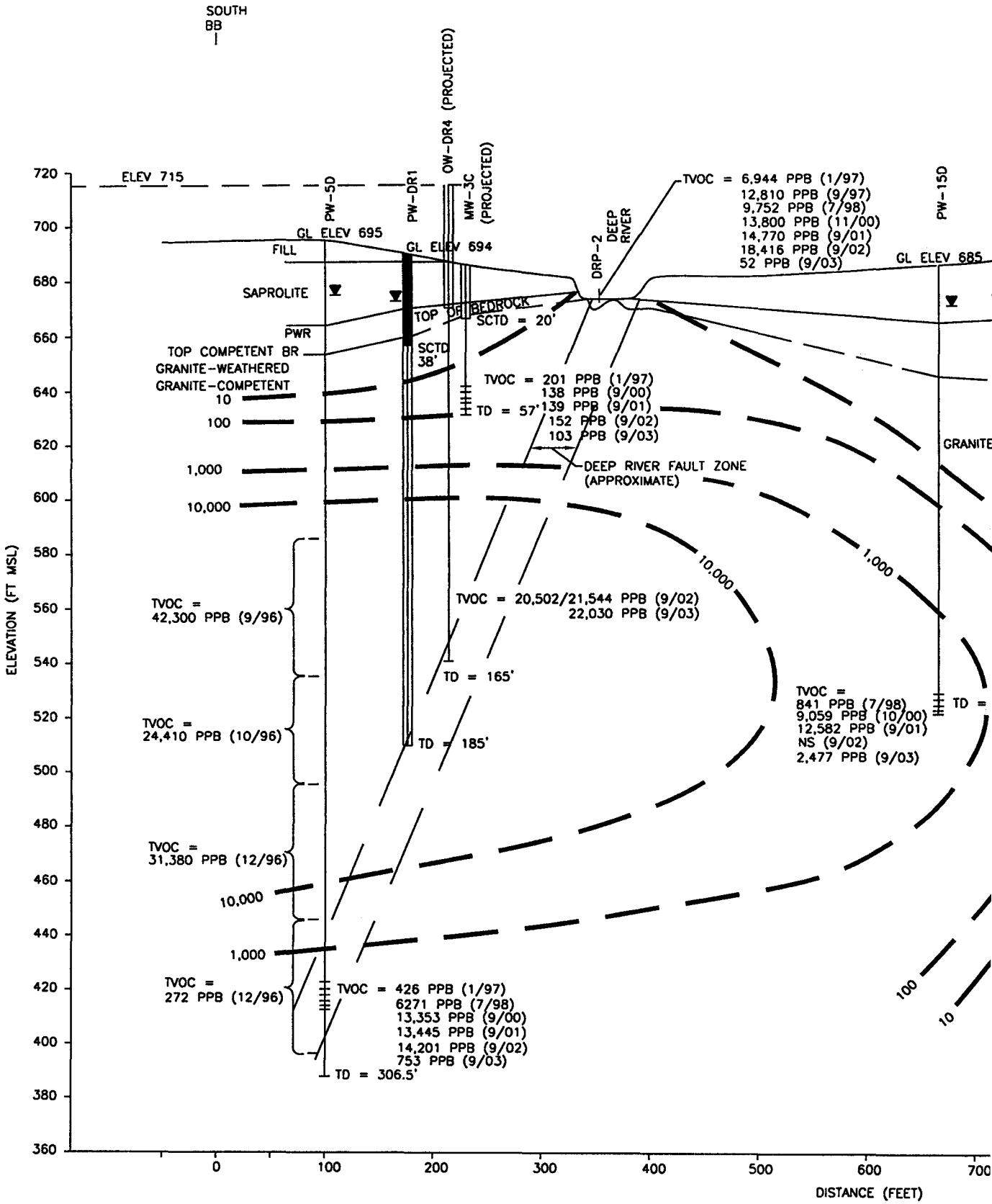
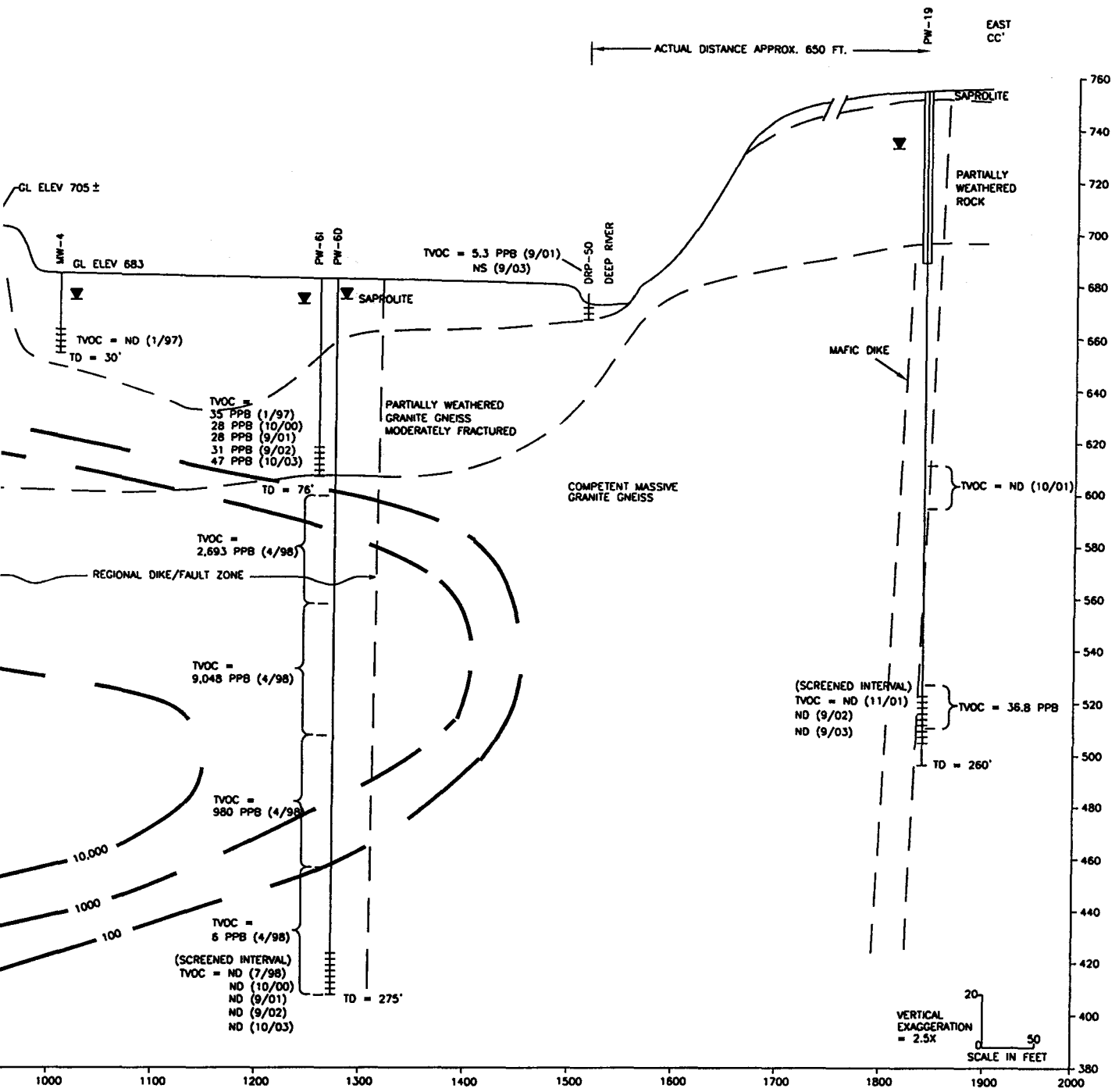


FIG 8BB 9-03.DWG 11/17/03 1=1 CH/TW



Environmental Resources Management

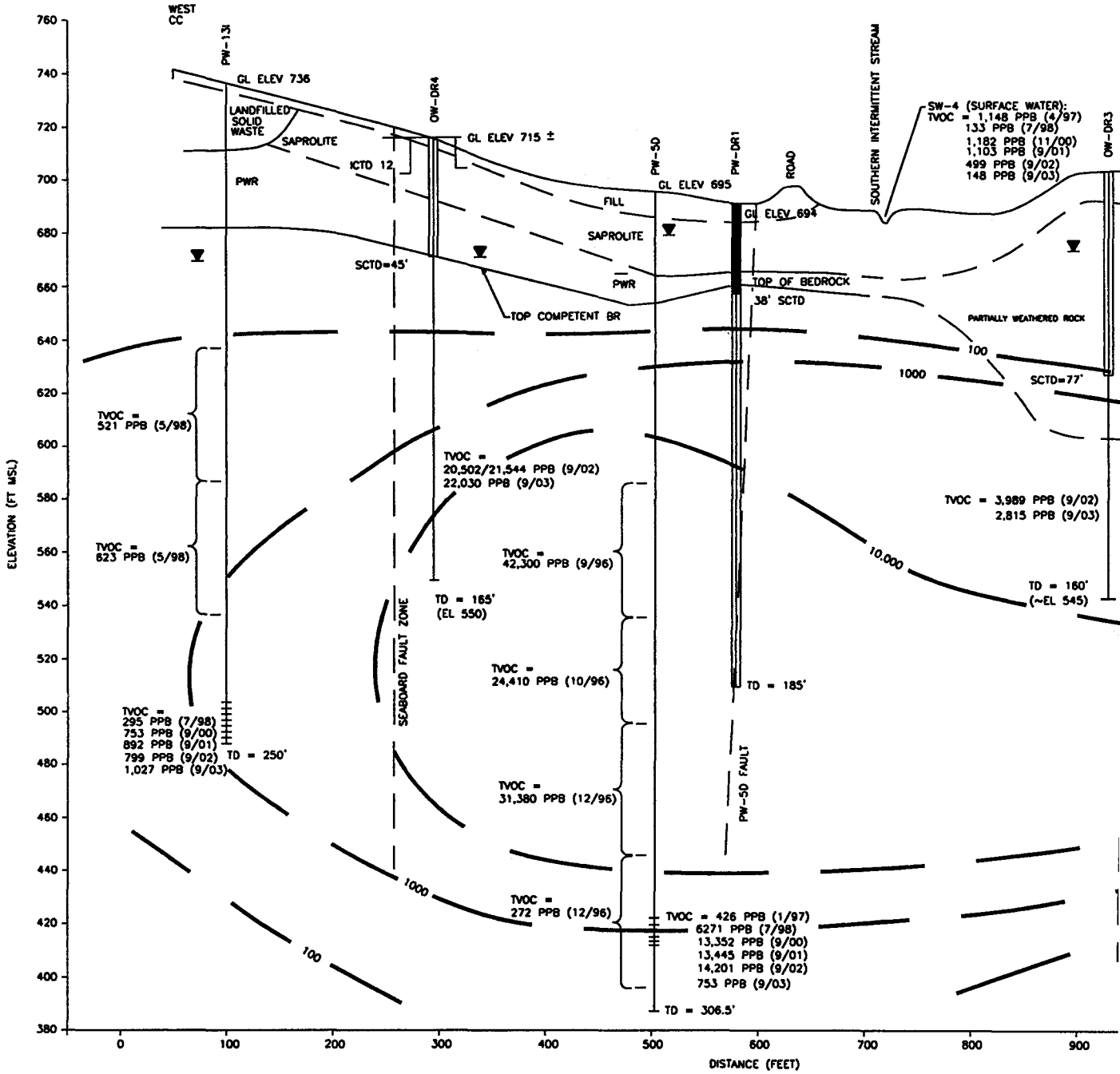
ERM

HYDROGEOLOGIC CROSS-SECTION CC-CC'

FORMER SEABOARD CHEMICAL/ RIVERDALE DRIVE LANDFILL SITE JAMESTOWN, NORTH CAROLINA

FIGURE

8CC



LEGEND

600 PPB — TOTAL VOC CONCENTRATION - GROUND WATER

STATIC WATER LEVEL

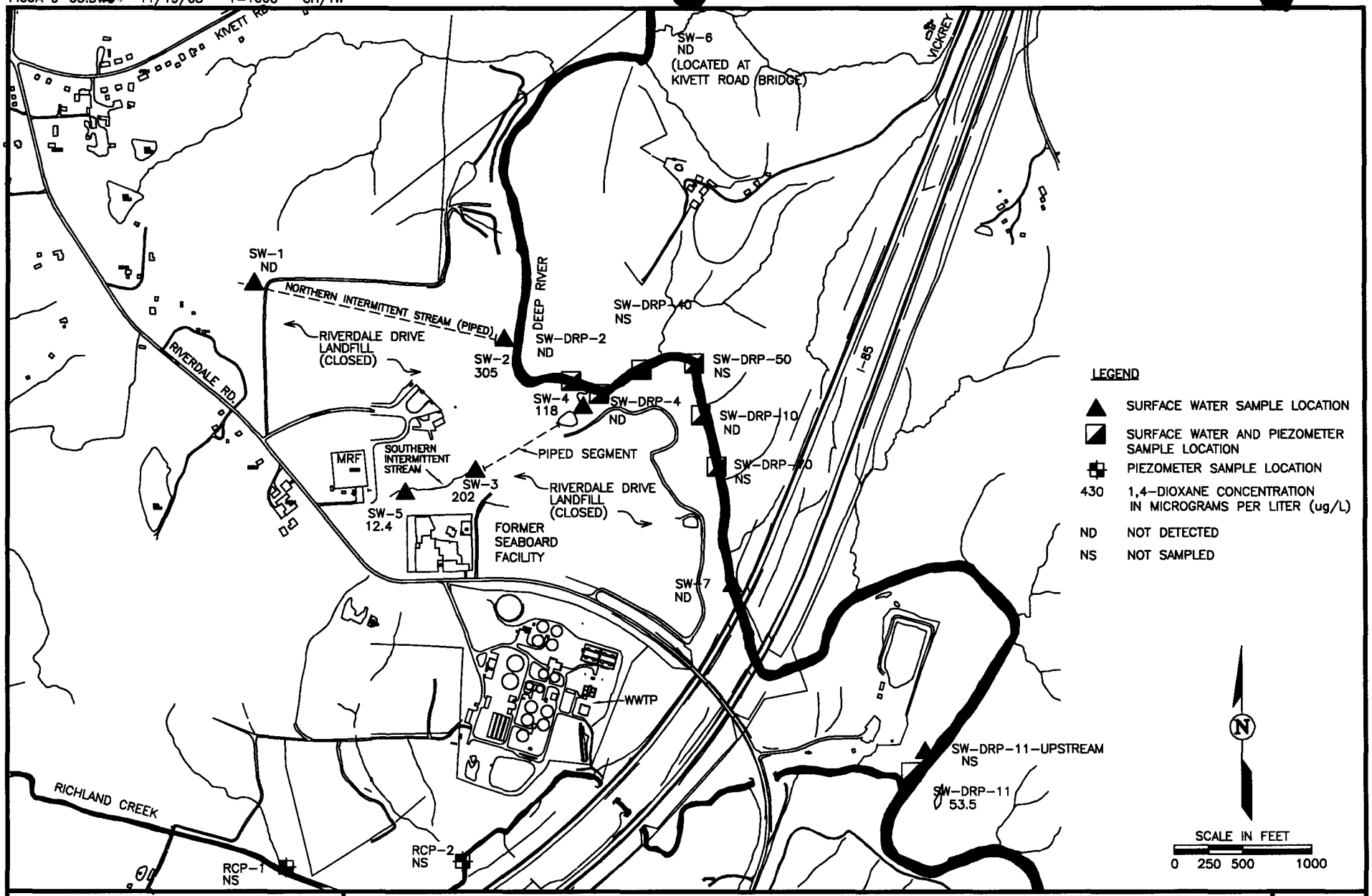
MONITOR WELL SURFACE CASING

SCREEN INTERVAL

ND — NOT DETECTED

FIG 8CC 9-03.DWG 11/20/03 1=1 CH/TW

FIG9A 9-03.D 11/19/03 1=1000 CH/TW

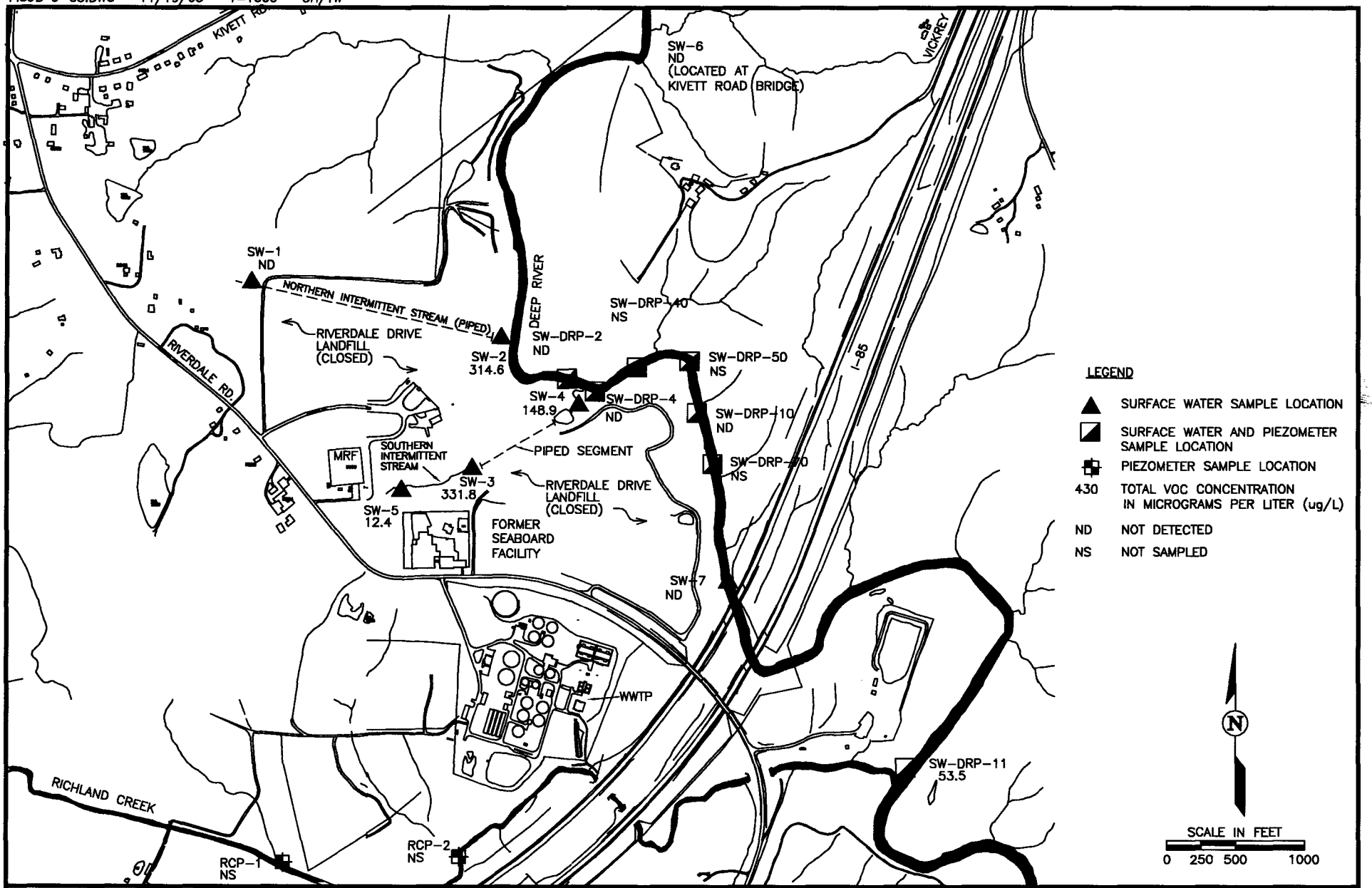


Environmental Resources Management
ERM

SURFACE WATER QUALITY- 1,4-DIOXANE- SEPTEMBER 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE
9A

FIG9B 9-03.DWG 11/19/03 1=1000 CH/TW



Environmental Resources Management

ERM

SURFACE WATER QUALITY- TOTAL VOCs- SEPTEMBER 2003
FORMER SEABOARD CHEMICAL/
RIVERDALE DRIVE LANDFILL SITE
JAMESTOWN, NORTH CAROLINA

FIGURE

9B

APPENDIX A

Annual Ground Water and Surface Water - Monitoring Program

TABLE A-1-GW
2003 Annual Ground Water Monitoring Program
Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina

[redacted]				
Monitor Wells				
MW-3C	SBR	57	X	
MW-6	SBR	110	X	
MW-10	SAP	28	X	
MW-11	SBR	68	X	
MW-12A	SAP	20	X	
MW-12B	SBR	58	X	X
MW-12D	SBR	202	X	
MW-15A	SBR	34	X	
OW-DR3	SBR	160	X	
OW-DR4	SBR	165	X	X
PW-10D	SBR	200	X	
PW-10I	SBR	100	X	
PW-11I	SBR	90	X	X
PW-12I	SBR	105	X	X
PW-13I	SBR	250	X	X
PW-14D	SBR	198.8	X	X
PW-14S	SAP	21.5	X	X
PW-15D	SBR	163.5	X	X
PW-15S	SAP	21.5	X	X
PW-16D	SBR	179	X	X
PW-16S	SAP	12.5	X	X
PW-17	SBR	128	X	X
PW-18	SBR	225	X	
PW-19	SBR	260	X	
PW-4I	SBR	122	X	X
PW-5D	SBR	306.5	X	X
PW-6D	SBR	275	X	X
PW-6I	SBR	76	X	X
PW-7I	SB R	101	X	X
PW-8S	SAP	60	X	
W-1	SBR	64.7	X	
W-4	SBR/PWR	19	X	
W-4A	SAP	38.5	X	
W-5	SBR/PWR	60	X	X
W-21	SBR	33.4	X	
[redacted]				

Natural Attenuation Parameters = dissolved oxygen, nitrate, iron(II), sulfate, redox potential, chloride & total organic carbon

SAP = Saprolite zone SBR = Shallow Bedrock zone PWR = Partially Weathered Rock zone

TABLE A-1-GW
2003 Annual Ground Water Monitoring Program
Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina

Monitor Wells (70):	MW-1	OW-DR3	W-1
	MW-2A	OW-DR4	W-2
	MW-2B	PW-DR1	W-4
	MW-2C	PW-1D	W-4A
	MW-3A	PW-2D	W-4B
	MW-3B	PW-3D	W-5
	MW-3C	PW-4I	W-6
	MW-4	PW-5D	W-6A
	MW-5	PW-6I	W-6B
	MW-6	PW-6D	W-13
	MW-7A	PW-7I	W-21
	MW-7B	PW-8S	W-23A
	MW-8	PW-9I	W-23B
	MW-9	PW-10I	W-24
	MW-10	PW-10D	W-25
	MW-11	PW-11I	W-26
	MW-12A	PW-12I	W-27
	MW-12B	PW-13I	W-28
	MW-12D	PW-14S	W-29
	MW-14	PW-14D	W-30
	MW-16	PW-15S	
	MRF-1	PW-15D	
	MRF-2	PW-16S	
	OW-DR1	PW-16D	
	OW-DR2	PW-17	
		PW-18	
		PW-19	
Surface Water (2):	SW-3		
	SW-DRP-2		

TABLE A-1-SW
2003 Annual Surface Water Monitoring Program
Seaboard Chemical/Riverdale Drive Landfill Site
Jamestown, North Carolina

Surface Water			
SW-1	Upstream NIS	X	
SW-2	Downstream NIS at Deep River	X	
SW-3	Middle segment of SIS near Seaboard	X	X
SW-4	Downstream SIS at Deep River	X	
SW-5	Upstream SIS	X	
SW-6	Upstream Deep River	X	
SW-7	Downstream Deep River at I-85 bridge	X	
SW-DRP-2	Deep River at plume discharge zone (east-west river segment)	X	X
SW-DRP-4	Deep River at plume discharge zone (east-west river segment)	X	X
SW-DRP-10	Deep River at DRP-10 piezometer - downstream of east-west segment	X	X
SW-DRP-11	Deep River above confluence of Richland Creek (downstream of I-85)	X	X
Deep River Piezometers			
DRP-2	Ground water beneath Deep River bed at east-west river segment	X	X
DRP-4	Ground water beneath Deep River bed at east-west river segment	X	X
DRP-10	Ground water beneath Deep River bed downstream of east-west segment	X	X
DRP-11	Ground water beneath Deep River bed downstream at Richland Creek	X	X
	Totals	15	

Notes:

NIS = Northern Intermittent Stream

SIS = Southern Intermittent Stream

Discharge measurements for Deep River will be taken at DRP-2 by stream cross-section/timed float method

Relative water levels of surface water and ground water will be measured at each piezometer to determine vertical gradient

QA/QC samples to include 1 trip blank per day and 1 duplicate.

Sampling to be conducted during low flow period, if feasible.

TABLE A-2
MONITOR WELL CONSTRUCTION DATA SUMMARY
FORMER SEABOARD CHEMICAL CORP. & RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

WELL	Northing (Y)	Easting (X)	TOC ELEVATION (FT. MSL)	GROUND ELEVATION (FT. MSL)	TOTAL DEPTH (FT. BGS)	SCREEN LENGTH (FT.)	SCREEN INTERVAL FROM (FT. BGS)	TO (FT. BGS)	FROM (FT. MSL)	TO (FT. MSL)	YEAR INSTALLED	INTERNAL DIAMETER (INCHES)	CASING TYPE	HYDROGEOLOGIC UNIT
LEACHATE WELLS														
LM-1	6008.9056	5251.5644	775.46		68	20	46	66	729.46	709.46	1996	2	Stainless	NA
LM-2	5462.8082	6217.5849	761.2		48.4	20	28.4	48.4	732.8	712.8	1996	2	Stainless	NA
LANDFILL MONITORING WELLS														
MRF-1	6037.3889	4255.8616	751.81	752.1	43.5	15	28.5	43.5	723.31	708.31		2	PVC	Shallow Bedrock
MRF-2	5610.9537	4305.8921	750.73	751	41.5	15	26.5	41.5	724.23	709.23		2	PVC	Shallow Bedrock
MW-1	6379.9191	3506.85	791.69	789.4	57.71	10	47.71	57.71	743.98	733.98		2	PVC	Shallow Bedrock
MW-2A	5850.2936	5018.3047	713.9	711.8	19	15	4	19	709.9	694.9	1991	2	PVC	Shallow Bedrock
MW-2B	5841.0271	5020.7948	712.57	711				30				2	PVC	Shallow Bedrock
MW-2C	5852.6001	5028.2522	713.56	711.4	48	20	28	48	685.56	665.56	1991	2	PVC	Shallow Bedrock
MW-3A	6301.4642	5611.3121	694.4	692.74	27	15	12	27	682.4	667.4	1991	2	PVC	Shallow Bedrock/PWR
MW-3B	6308.393	5618.5804	693.59	692.32	38.83	10	28.83	38.83	664.76	954.76		2	PVC	Shallow Bedrock
MW-3C	6299.614	5624.582	694.22	691.9	57	10	47	57	647.22	637.22	1991	2	PVC	Shallow Bedrock
MW-4	6341.7307	6099.3732	684.72	683.2	30	10	20	30	664.72	654.72		2	PVC	Saprolite
MW-5	5937.422	6654.6592	684.4	682	30	10	20	30	664.4	654.4		2	PVC	Saprolite
MW-6	4727.9662	6242.507	761.73	759.6	110	10	100	110	661.73	651.73		2	PVC	Shallow Bedrock
MW-7A	5491.1483	5014.9064	741.64	739.42	35	20	15	35	726.64	706.64	1991	2	PVC	PWR
MW-7B	5502.3392	5013.6667	740.16	738.5	68	10	58	68	682.16	672.16	1991	2	PVC	PWR
MW-8	5565.0854	5309.0223	734.16	731.8	33	20	13	33	721.16	701.16	1991	2	PVC	Saprolite
MW-9	5721.179	6534.0782	688.95	685.95	32	20	12	32	676.95	656.95	1991	2	PVC	Saprolite/PWR
MW-10	5483.471	6641.084	695.62	693.6	28	20	8	28	687.62	667.62	1991	2	PVC	Saprolite
MW-11	6497.6183	5068.2988	748.42	746.26	68	15	53	68	695.42	680.42	1991	2	PVC	Shallow Bedrock
MW-12A	6829.3424	5195.0041	693.96	691.12	20	15	5	20	688.96	673.96	1991	2	PVC	Saprolite
MW-12B	6821.3115	5193.7509	695	691.7	58	10	48	58	647	637	1991	2	PVC	Shallow Bedrock
MW-13	6918.2272	5138.6992	712.35	709.68	35	15	20	35	692.35	677.35	1991	2	PVC	Saprolite
MW-14	5930.3274	4489.0282	766.22	763.8	35	15	20	35	746.22	731.22		2	PVC	Shallow Bedrock
MW-15A	5953.7869	4452.1476	765.34	762.5	34	15	19	34	746.34	731.34		2	PVC	Shallow Bedrock
MW-15B	5950.1989	4452.2551	765.06	761.65	67.5	6	61.5	67.5	703.56	697.56		2	PVC	Shallow Bedrock
MW-16	6271.8162	4385.6193	779.13	779	45	15	30	45	749.13	734.13		2	PVC	Shallow Bedrock
RI PUMPING TEST WELLS														
OW-DR1	6202.8587	5645.936	697.95	695.39	165	116	49	165	648.95	532.95	1997	6	none	Shallow Bedrock
OW-DR2	6301.0001	5632.0561	694.4	692.61	186	10	176	186	518.4	508.4	1997	2	PVC	Shallow Bedrock
OW-DR3	6232.169	5998.14	704.75	703.52	160	83	77	160	626.52	543.52	2002	6	Galvanized	Shallow Bedrock
OW-DR4	6317.799	5474.68	713.85	712.70	165	120	45	165	667.70	547.70	2002	6	Galvanized	Shallow Bedrock
OW-SF1	5577.0435	4985.3031	733.15	731.06	120	25	95	120	638.15	613.15	1997	6	none	Shallow Bedrock
OW-SF2	5537.7253	4930.6018	731.05	728.87	120	40	80	120	651.05	611.05	1997	6	none	Shallow Bedrock
PW-DR1	6257.4696	5684.7778	695.21	693.62	185	147	38	185	657.21	510.21	1997	6	none	Shallow Bedrock
PW-SF1	5539.3113	4969.0091	733.15	732.14	120	25	95	120	638.15	613.15	1997	6	none	Shallow Bedrock
RI MONITORING WELLS														
MW-12D	6811.2428	5189.7767	694.93	691.81	202	15	187	202	507.93	492.93	1998	2	PVC	Shallow Bedrock
PW-1D	6506.2946	4497.4463	783.68	781.9	81.5	15	66.5	81.5	717.18	702.18	1996	2	PVC	Shallow Bedrock
PW-2D	6301.0715	4772.9131	780.55	778.8	101	20	80	100	700.55	680.55	1996	2	PVC	Shallow Bedrock
PW-3D	5645.3791	5096.1686	758.34	756.6	209.5	30	179.5	209.5	578.84	548.84	1996	2	Stainless	Deep Bedrock
PW-4I	5582.8899	5363.7586	737.67	735.17	122	10	112	122	625.67	615.67	1996	2	Stainless	Shallow Bedrock
PW-5D	6198.7903	5636.3285	697.87	695.07	306.5	10	272	282	425.87	415.87	1997	2	Stainless	Shallow Bedrock
PW-6D	6474.0837	6329.7854	684.77	682.22	275	15	260	275	424.77	409.77	1998	2	PVC	Shallow Bedrock
PW-6I	6468.6952	6314.1035	684.19	682.27	76	11	65	76	619.19	608.19	1996	2	PVC	Shallow Bedrock
PW-7I	6663.1886	5269.427	684.92	683.42	101	10	90	100	594.92	584.92	1996	2	PVC	Shallow Bedrock
PW-8S	5100.6177	5149.8472	763.13	761.23	60	10	35	45	728.13	718.13	1996	2	PVC	Saprolite
PW-9I	5650.189	6466.3132	699.07	698.07	100	20	80	100	619.07	599.07	1996	2	PVC	Shallow Bedrock

TABLE A-2 (CONTINUED)
FORMER SEABOARD CHEMICAL CORP. & RIVERDALE DRIVE LANDFILL
JAMESTOWN, NORTH CAROLINA

WELL	Northing (Y)	Easting (X)	TOC ELEVATION (FT. MSL)	GROUND ELEVATION (FT. MSL)	TOTAL DEPTH (FT. BGS)	SCREEN LENGTH (FT.)	SCREEN INTERVAL FROM (FT. BGS)	TO (FT. BGS)	FROM (FT. MSL)	TO (FT. MSL)	YEAR INSTALLED	INTERNAL DIAMETER (INCHES)	CASING TYPE	HYDROGEOLOGIC UNIT
PW-10D	5465.7901	6646.0591	697.96	695.48	200	15	185	200	512.75	497.75	1998	2	PVC	Shallow Bedrock
PW-10I	5475.5069	6635.2812	696.44	695.34	100	20	80	100	616.44	596.44	1996	2	PVC	Shallow Bedrock
PW-11I	6493.1206	4383.5967	785.45	784.38	90	15	75	90	710.45	695.45	1997	2	PVC	Shallow Bedrock
PW-12I	4886.6965	5070.0518	750.54	748.07	105	15	90	105	660.54	645.54	1997	2	PVC	Shallow Bedrock
PW-13I	6349.6895	5251.6945	739.9	736.58	250	15	235	250	504.9	489.9	1998	2	PVC	Shallow Bedrock
PW-14D	6687.5622	5670.5398	689.13	686.38	198.8	15	183.8	198.8	505.33	490.33	1998	2	PVC	Shallow Bedrock
PW-14S	6674.1869	5668.8987	688.59	685.96	21.5	10	11.5	21.5	677.09	667.09	1998	2	PVC	Saprolite
PW-15D	6572.2314	6028.1728	687.43	684.85	163.5	10	153.5	163.5	533.93	523.93	1998	2	PVC	Shallow Bedrock
PW-15S	6581.7333	6031.7306	688.21	685.88	21.5	10	11.5	21.5	676.71	666.71	1998	2	PVC	Saprolite
PW-16D	6733.803	6349.5777	684.98	681.46	179	10	169	179	515.98	505.98	1998	2	PVC	Shallow Bedrock
PW-16S	6732.1135	6364.0211	683.17	680.97	12.5	7	5.5	12.5	677.67	670.67	1998	2	PVC	Saprolite
PW-17	4804.369	4722.538	774.70	771.00	128	15	85	100	686.00	671.00	2000	2	PVC	Shallow Bedrock
PW-18	7334.569	6189.238	737.80	735.40	225	15	210	225	525.40	510.40	2000	2	PVC	Shallow Bedrock
PW-19			754.10	751.60	260	15	235	250	516.60	501.60	2001	2	PVC	Shallow Bedrock
SEABOARD PROPERTY MONITORING WELLS														
W-1	5063.8249	4767.7301	772.75	772.2	64.7	11	53.7	64.7	719.05	708.05		2		Shallow Bedrock
W-2	5622.9517	4804.2214	726	723.3	35	12	23	35	703	691		2		Shallow Bedrock
W-3	5626.3204	4927.6564	720.89	718.2	26.7	11	15.7	26.7	705.19	694.19		2		Shallow Bedrock
W-3A	5621.4609	4926.4868	720.16	718.2	16	5	11	16	709.16	704.16		2		PWR
W-3B	5622.0675	4928.49	720.19	718.22	13	10	3	13	717.19	707.19		2		Saprolite/PWR
W-4	5716.5134	4895.8093	712.64	710.3	19	10	9	19	703.64	693.64		2		BR/PWR
W-4A	5713.3693	4891.3509	713.25	712	38.5	10	28.5	38.5	684.75	674.75		2		Saprolite
W-4B	5701.2546	4901.4005	713.93	711.7	50			52.7				6		Saprolite
W-5	5499.2809	4758.3788	752.06	750.86	60	10	50	60	702.06	692.06		2		BR/PWR
W-6	5465.3364	4957.8897	743.8	742.17	57	15	42	57	701.8	686.8		2		PWR
W-6A	5456.5794	4959.03	744.9	742.91	90	10	80	90	664.9	654.9		2		Shallow Bedrock
W-6B	5460.0552	4951.973	744.39	743.13	35	15	20	35	724.39	709.39		2		PWR
W-12	5496.7402	4852.1611	735.84	734.14	60	10	50	60	685.84	675.84		2		Shallow Bedrock
W-12A	5502.7713	4853.9331	735.74	733.62	25	15	10	25	725.74	710.74		2		PWR
W-13	5507.1867	4606.5998	754.7	752.4	20	10	10	20	744.7	734.7		2		PWR
W-13A	5506.8884	4615.625	755.1	752.4	37	10	27	37	728.1	718.1		2		PWR
W-14	5582.6582	4888.1398	723.9	721.3	23	15	8	23	715.9	700.9		2		PWR
W-15	5415.1739	4764.3421	762.36	760	55	20	35	55	727.36	707.36		2		PWR
W-16	5448.7778	4810.1635	742.01	739.8	38	10	28	38	714.01	704.01		2		PWR
W-17	5746.1674	4963.5104	710.44	708.4	20.5			23		687.44		2		PWR
W-18	5509.6348	4646.8337	753.71	751.4	41.5	10	31.5	41.5	722.21	712.21		2		PWR
W-19	5538.1003	4772.4956	747.33	744.3	40	10	30	40	717.33	707.33		2		PWR
W-20	5645.908	4648.403	717.24	715.14	10	5	5	10	712.24	707.24		2		Saprolite
W-21	5824.5678	4906.5787	718.18	716	33.4			33.4		684.78		2		Shallow Bedrock
W-23A	6024.1382	4706.4785	772.66	770.18	75	10	65	75	707.66	697.66		2		Shallow Bedrock
W-23B	6020.7264	4716.8086	771.89	769.6	55	15	40	55	731.89	716.89		2		Shallow Bedrock
W-24	5064.5022	4971.5439	766.14	765.8	60	15	45	60	721.14	706.14		2		Shallow Bedrock
W-25	5088.9002	4537.8636	770.27	770.8	58	15	43	58	727.27	712.27		2		Shallow Bedrock
W-26	5325.4012	4630.2917	759.65	759.2	53	15	38	53	721.65	706.65		2		Shallow Bedrock
W-27	5191.7233	4718.5234	765.2	765.5	58.5	15	43.5	58.5	721.7	706.7		2		Shallow Bedrock
W-29	5315.8898	4870.1135	750.19	750.74	49.5	15	34.5	49.5	715.69	700.69		2		Shallow Bedrock
W-30	5239.344	4984.7452	760.77	761	53	15	38	53	722.77	707.77		2		Shallow Bedrock

PWR = Partially Weathered Rock
BR = Bedrock

BGS = Below Ground Surface
MSL = Mean Sea Level

APPENDIX B

Laboratory Data Sheets

Ground Water

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16160

Client ID: **MW-3C**
Matrix : GW/ChemW

Sample ID : L03092201-05
Date Collected: 19-SEP-03 09:45
Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
ACETONE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
BENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1303
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
CHLOROBENZENE		**13.4**		5.0	ug/l	PAP 09/23/03	1303
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1303
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1303
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/23/03	1303
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1303
SW846 8260M							
1,4-DIOXANE		**90.0**		10.0	ug/l	MGB 09/23/03	1220

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18467

Client ID: **MW-6**
Matrix : GW/ChemW

Sample ID : L03102316-09
Date Collected: 22-OCT-03 12:45
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
ACETONE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
BENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1350
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1350
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
STYRENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
TOLUENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1350
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 10/24/03	1350
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/24/03	1350
SW846 8260M							
1,4-DIOXANE		**15.8**		10.0	ug/l	MGB 10/24/03	1532

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18467

Client ID: **MW-6** Sample ID : L03102316-09

Parameter	Result	Qual	RDL	Units	Analyst	Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL	17.2		2.5	mg/l	DHR	10/23/03	1909
NITRATE NITROGEN (AS N)	0.42		0.10	mg/l	DHR	10/23/03	1705
SULFATE	20.0		2.5	mg/l	DHR	10/23/03	1909
SW846 9060							
ORGANIC CARBON, TOTAL	3.0		1.0	mg/l	CLB	10/29/03	1408

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16256

Client ID: **MW-10** Sample ID : L03091708-14
Date Collected: 16-SEP-03 13:35
Matrix : GW/ChemW Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1536
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1536
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1536
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1536
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1536
SW846 8260M								
1,4-DIOXANE		221		20.0	ug/l	MGB	09/22/03	1703

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16159

Client ID: **MW-11**
Matrix : GW/ChemW

Sample ID : L03092201-04
Date Collected: 19-SEP-03 11:00
Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
ACETONE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
BENZENE		**7.4**		5.0	ug/l	PAP 09/23/03	1244
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1244
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
CHLOROBENZENE		**16.8**		5.0	ug/l	PAP 09/23/03	1244
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1244
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1244
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/23/03	1244
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1244
SW846 8260M							
1,4-DIOXANE		**94.2**		10.0	ug/l	MGB 09/23/03	1346

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16253

Client ID: **MW-12A**
Matrix : GW/ChemW

Sample ID : L03091708-15
Date Collected: 16-SEP-03 14:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
ACETONE		**15.6**		10.0	ug/l	PAP 09/18/03	1554
BENZENE	<	**5.0**		5.0	ug/l	PAP 09/18/03	1554
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1554
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1554
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1554
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	1554
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/18/03	1554
SW846 8260M							
1,4-DIOXANE		**11.9**		10.0	ug/l	MGB 09/22/03	1359

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16257

Client ID: **MW-12B**
Matrix : GW/ChemW

Sample ID : L03091708-16
Date Collected: 16-SEP-03 15:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1613
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
CHLOROBENZENE		**12.4**		5.0	ug/l	PAP	09/18/03	1613
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1613
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1613
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1613
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1613
SW846 8260M								
1,4-DIOXANE		**250**		10.0	ug/l	MGB	09/22/03	1430

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16257

Client ID: **MW-12B**

Sample ID : L03091708-16

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Wet Chemistry								
SW846 9056								
CHLORIDE, TOTAL		**220**		25.0	mg/l	DHR	09/18/03	2123
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR	09/17/03	1431
SULFATE		**4.3**		0.50	mg/l	DHR	09/17/03	1431
SW846 9060								
ORGANIC CARBON, TOTAL		**46.2**		1.0	mg/l	CLB	09/23/03	2208

Sample Comments: 8260 VOCs - The sample pH was 8 at the time of analysis. The sample was analyzed within two days of sample collection.

Davis & Floyd, Inc. | PO Drawer 428 | Greenwood, SC 29648 | 816 E. Durst Avenue | Greenwood, SC 29649 | (864) 229-4413 | Fax (864) 229-7119

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18463

Client ID: **MW-12D** Sample ID : L03102316-04

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		9.3		0.50	mg/l	DHR 10/23/03	1515
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 10/23/03	1515
SULFATE		19.7		0.50	mg/l	DHR 10/23/03	1515
SW846 9060							
ORGANIC CARBON, TOTAL		1.3		1.0	mg/l	CLB 10/29/03	1136

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18463

Client ID: **MW-12D** Sample ID : L03102316-04
Date Collected: 22-OCT-03 09:45
Matrix : GW/ChemW Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
ACETONE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
BENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1215
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1215
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
STYRENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
TOLUENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1215
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 10/24/03	1215
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/24/03	1215
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 10/24/03	1309

Davis & Floyd, Inc. | PO Drawer 428 | Greenwood, SC 29648 | 816 E. Durst Avenue | Greenwood, SC 29649 | (864) 229-4413 | Fax (864) 229-7119

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16114

Client ID: MW-15A
Matrix : GW/ChemW

Sample ID : L03091817-07
Date Collected: 17-SEP-03 14:30
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,1,2,2-TETRACHLOROETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,1,2-TRICHLOROETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,1-DICHLOROETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,1-DICHLOROETHENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,2-DICHLOROETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
1,2-DICHLOROPROPANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
2-BUTANONE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
2-HEXANONE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
4-METHYL-2-PENTANONE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
ACETONE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
BENZENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
BROMODICHLOROMETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
BROMOFORM	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
BROMOMETHANE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
CARBON DISULFIDE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
CARBON TETRACHLORIDE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
CHLOROBENZENE		514		25.0	ug/l	PAP 09/19/03	1205
CHLOROETHANE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
CHLOROFORM	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
CHLOROMETHANE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
CIS-1,2-DICHLOROETHENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
CIS-1,3-DICHLOROPROPENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
DIBROMOCHLOROMETHANE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
ETHYLBENZENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
METHYLENE CHLORIDE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
STYRENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
TETRACHLOROETHENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
TOLUENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
TRANS-1,2-DICHLOROETHENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
TRANS-1,3-DICHLOROPROPENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
TRICHLOROETHENE	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
VINYL ACETATE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
VINYL CHLORIDE	<	50.0	X	50.0	ug/l	PAP 09/19/03	1205
XYLENE (TOTAL)	<	25.0	X	25.0	ug/l	PAP 09/19/03	1205
SW846 8260M							
1,4-DIOXANE		1910		200	ug/l	MGB 09/23/03	1443

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18461

Client ID: PW-4I
Matrix : GW/ChemW

Sample ID : L03102316-05
Date Collected: 22-OCT-03 10:30
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE		95.3		5.0	ug/l	PAP 10/29/03	0932
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
1,1-DICHLOROETHANE		340		20.0	ug/l	PAP 10/29/03	1011
1,1-DICHLOROETHENE		84.0		5.0	ug/l	PAP 10/29/03	0932
1,2-DICHLOROETHANE		247		20.0	ug/l	PAP 10/29/03	1011
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
ACETONE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
BENZENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/29/03	0932
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
CHLOROBENZENE		228		20.0	ug/l	PAP 10/29/03	1011
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/29/03	0932
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
CIS-1,2-DICHLOROETHENE		361		20.0	ug/l	PAP 10/29/03	1011
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
STYRENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
TETRACHLOROETHENE		18.7		5.0	ug/l	PAP 10/29/03	0932
TOLUENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/29/03	0932
TRICHLOROETHENE		27.5		5.0	ug/l	PAP 10/29/03	0932
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/29/03	0932
VINYL CHLORIDE		147		10.0	ug/l	PAP 10/29/03	0932
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/29/03	0932
SW846 8260M							
1,4-DIOXANE		232		10.0	ug/l	MGB 10/24/03	1337

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18461

Client ID: **PW-4I** Sample ID : L03102316-05

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		**240**		12.5	mg/l	DHR 10/23/03	1823
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 10/23/03	1546
SULFATE		**17.8**		0.50	mg/l	DHR 10/23/03	1546
SW846 9060							
ORGANIC CARBON, TOTAL		**26.0**		1.0	mg/l	CLB 10/29/03	1208

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 2 Report ID: AB16158

Client ID: **PW-5D** Sample ID : L03092201-03
Date Collected: 19-SEP-03 10:30
Matrix : GW/ChemW Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
1,1-DICHLOROETHANE		**57.6**		5.0	ug/l	PAP 09/23/03	1436
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
ACETONE		**110**		10.0	ug/l	PAP 09/23/03	1436
BENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1436
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
CHLOROBENZENE		**164**		5.0	ug/l	PAP 09/23/03	1436
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1436
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
CIS-1,2-DICHLOROETHENE		**9.4**		5.0	ug/l	PAP 09/23/03	1436
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1436
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/23/03	1436
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1436
SW846 8260M							
1,4-DIOXANE		**412**		30.0	ug/l	MGB 09/23/03	1929

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 2 of 2 Report ID: AB16158

Client ID: **PW-5D**
Sample ID : L03092201-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Wet Chemistry								
EPA 353.2								
NITRATE NITROGEN (AS N)	<	0.050		0.050	mg/l	DHR	09/29/03	1619
SW846 9056								
CHLORIDE, TOTAL		**44.4**		5.0	mg/l	DHR	09/22/03	1435
SULFATE		**37.9**		5.0	mg/l	DHR	09/22/03	1435
SW846 9060								
ORGANIC CARBON, TOTAL		**3.1**		1.0	mg/l	CLB	09/24/03	1426

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 31, 2003
Page 1 of 2 Report ID: AB18198

Client ID: **PW-6I**
Sample ID : L03102102-01
Date Collected: 20-OCT-03 10:50
Matrix : GW/ChemW
Date Received : 21-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
1,1-DICHLOROETHANE		**12.1**		5.0	ug/l	PAP	10/23/03	1412
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
ACETONE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
BENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1412
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
CHLOROBENZENE		**9.9**		5.0	ug/l	PAP	10/23/03	1412
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1412
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
CIS-1,2-DICHLOROETHENE		**13.0**		5.0	ug/l	PAP	10/23/03	1412
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
STYRENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
TOLUENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1412
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/23/03	1412
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/23/03	1412
SW846 8260M								
1,4-DIOXANE		**11.6**		10.0	ug/l	MGB	10/23/03	1052

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 31, 2003
Page 2 of 2 Report ID: AB18198

Client ID: **PW-6I**
Sample ID : L03102102-01

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		39.1		2.5	mg/l	DHR 10/21/03	1425
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 10/21/03	1323
SULFATE		19.9		0.50	mg/l	DHR 10/21/03	1323
SW846 9060							
ORGANIC CARBON, TOTAL		2.1		1.0	mg/l	CLB 10/21/03	1859

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18462

Client ID: **PW-7I**
Sample ID : L03102316-03
Date Collected: 22-OCT-03 09:30
Matrix : GW/ChemW
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
ACETONE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
BENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1156
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
CHLOROBENZENE		9.8		5.0	ug/l	PAP 10/24/03	1156
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1156
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
STYRENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
TOLUENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1156
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 10/24/03	1156
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/24/03	1156
SW846 8260M							
1,4-DIOXANE		144		10.0	ug/l	MGB 10/24/03	1240

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18462

Client ID: **PW-7I**

Sample ID : L03102316-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Wet Chemistry								
SW846 9056								
CHLORIDE, TOTAL		371		25.0	mg/l	DHR	10/23/03	1751
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR	10/23/03	1500
SULFATE		12.8		0.50	mg/l	DHR	10/23/03	1500
SW846 9060								
ORGANIC CARBON, TOTAL		62.4		1.0	mg/l	CLB	10/29/03	1107

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : October 31, 2003
Page 1 of 2 Report ID: AB18197

Client ID: **PW-6D**

Sample ID : L03102102-02
Date Collected: 20-OCT-03 13:00
Matrix : GW/ChemW
Date Received : 21-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
ACETONE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
BENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1431
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1431
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
STYRENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
TOLUENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1431
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/23/03	1431
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/23/03	1431
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	10/23/03	1121

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : October 31, 2003
Page 2 of 2 Report ID: AB18197

Client ID: **PW-6D**

Sample ID : L03102102-02

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		**5.3**		0.50	mg/l	DHR 10/21/03	1338
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 10/21/03	1338
SULFATE		**11.0**		0.50	mg/l	DHR 10/21/03	1338
SW846 9060							
ORGANIC CARBON, TOTAL	<	1.0		1.0	mg/l	CLB 10/21/03	1928

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16118

Client ID: **PW-8S**

Sample ID : L03091817-05
Date Collected: 17-SEP-03 13:10
Matrix : GW/ChemW
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
2-BUTANONE		**14.6**		10.0	ug/l	PAP 09/19/03	1338
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
ACETONE		**163**		10.0	ug/l	PAP 09/19/03	1338
BENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1338
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
CHLOROBENZENE		**11.3**		5.0	ug/l	PAP 09/19/03	1338
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1338
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
CIS-1,2-DICHLOROETHENE		**6.0**		5.0	ug/l	PAP 09/19/03	1338
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
STYRENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
TOLUENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1338
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/19/03	1338
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/19/03	1338
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/22/03	1259

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 03, 2003
Page 1 of 2 Report ID: AB16698

Client ID: PW-13I
Matrix : GW/ChemW

Sample ID : L03092410-02
Date Collected: 23-SEP-03 10:55
Date Received : 24-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE		11.7		10.0	ug/l	PAP 09/29/03	0910
1,1,2,2-TETRACHLOROETHANE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
1,1,2-TRICHLOROETHANE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
1,1-DICHLOROETHANE		321		10.0	ug/l	PAP 09/29/03	0910
1,1-DICHLOROETHENE		92.2		10.0	ug/l	PAP 09/29/03	0910
1,2-DICHLOROETHANE		14.3		10.0	ug/l	PAP 09/29/03	0910
1,2-DICHLOROPROPANE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
2-BUTANONE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
2-HEXANONE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
4-METHYL-2-PENTANONE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
ACETONE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
BENZENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
BROMODICHLOROMETHANE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
BROMOFORM	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
BROMOMETHANE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
CARBON DISULFIDE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
CARBON TETRACHLORIDE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
CHLOROBENZENE		21.7		10.0	ug/l	PAP 09/29/03	0910
CHLOROETHANE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
CHLOROFORM	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
CHLOROMETHANE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
CIS-1,2-DICHLOROETHENE		358		10.0	ug/l	PAP 09/29/03	0910
CIS-1,3-DICHLOROPROPENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
DIBROMOCHLOROMETHANE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
ETHYLBENZENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
METHYLENE CHLORIDE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
STYRENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
TETRACHLOROETHENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
TOLUENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
TRANS-1,2-DICHLOROETHENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
TRANS-1,3-DICHLOROPROPENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
TRICHLOROETHENE	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
VINYL ACETATE	<	20.0	X	20.0	ug/l	PAP 09/29/03	0910
VINYL CHLORIDE		90.4		20.0	ug/l	PAP 09/29/03	0910
XYLENE (TOTAL)	<	10.0	X	10.0	ug/l	PAP 09/29/03	0910
SW846 8260M							
1,4-DIOXANE		118		10.0	ug/l	MGB 09/25/03	1538

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16157

Client ID: PW-10I
Matrix : GW/ChemW

Sample ID : L03092201-01
Date Collected: 18-SEP-03 12:00
Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
1,1-DICHLOROETHANE		17.0		5.0	ug/l	PAP 09/23/03	1207
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
ACETONE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
BENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1207
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1207
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1207
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/23/03	1207
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1207
SW846 8260M							
1,4-DIOXANE		109		10.0	ug/l	MGB 09/23/03	1123

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16156

Client ID: **PW-10D**
Matrix : GW/ChemW

Sample ID : L03092201-02
Date Collected: 19-SEP-03 10:00
Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
ACETONE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
BENZENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/23/03	1225
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/23/03	1225
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
STYRENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
TOLUENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/23/03	1225
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/23/03	1225
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/23/03	1225
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/23/03	1151

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 03, 2003
Page 1 of 2 Report ID: AB16697

Client ID: **PW-11I**
Matrix : GW/ChemW

Sample ID : L03092410-01
Date Collected: 23-SEP-03 10:00
Date Received : 24-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,1,2,2-TETRACHLOROETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,1,2-TRICHLOROETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,1-DICHLOROETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,1-DICHLOROETHENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,2-DICHLOROETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
1,2-DICHLOROPROPANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
2-BUTANONE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
2-HEXANONE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
4-METHYL-2-PENTANONE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
ACETONE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
BENZENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
BROMODICHLOROMETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
BROMOFORM	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
BROMOMETHANE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
CARBON DISULFIDE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
CARBON TETRACHLORIDE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
CHLOROBENZENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
CHLOROETHANE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
CHLOROFORM	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
CHLOROMETHANE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
CIS-1,2-DICHLOROETHENE		**87.3**		10.0	ug/l	PAP	09/29/03	0851
CIS-1,3-DICHLOROPROPENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
DIBROMOCHLOROMETHANE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
ETHYLBENZENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
METHYLENE CHLORIDE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
STYRENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
TETRACHLOROETHENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
TOLUENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
TRANS-1,2-DICHLOROETHENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
TRANS-1,3-DICHLOROPROPENE	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
TRICHLOROETHENE		**378**		20.0	ug/l	PAP	09/29/03	1453
VINYL ACETATE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
VINYL CHLORIDE	<	20.0	X	20.0	ug/l	PAP	09/29/03	0851
XYLENE (TOTAL)	<	10.0	X	10.0	ug/l	PAP	09/29/03	0851
SW846 8260M								
1,4-DIOXANE		**50.3**		10.0	ug/l	MGB	09/25/03	1509

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 03, 2003
Page 2 of 2 Report ID: AB16697

Client ID: PW-11I
Sample ID : L03092410-01

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	93.3		5.0	mg/l	DHR 10/01/03	1850
NITRATE NITROGEN (AS N)	0.29		0.10	mg/l	DHR 09/24/03	1612
SULFATE	98.2		5.0	mg/l	DHR 10/01/03	1850
SW846 9060						
ORGANIC CARBON, TOTAL	10.9		1.0	mg/l	CLB 09/30/03	1151

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18464

Client ID: PW-12I
Sample ID : L03102316-07
Date Collected: 22-OCT-03 11:00
Matrix : GW/ChemW
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
ACETONE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
BENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1059
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1059
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
STYRENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
TOLUENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1059
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 10/24/03	1059
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/24/03	1059
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 10/24/03	1434

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18464

Client ID: **PW-12I** Sample ID : L03102316-07

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	20.8		2.5	mg/l	DHR 10/23/03	1838
NITRATE NITROGEN (AS N)	6.6		0.10	mg/l	DHR 10/23/03	1602
SULFATE	61.0		0.50	mg/l	DHR 10/23/03	1602
SW846 9060						
ORGANIC CARBON, TOTAL	2.4		1.0	mg/l	CLB 10/29/03	1309

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 03, 2003
Page 2 of 2 Report ID: AB16698

Client ID: **PW-13I** Sample ID : L03092410-02

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	52.2		5.0	mg/l	DHR 10/01/03	1905
NITRATE NITROGEN (AS N)	0.10	<	0.10	mg/l	DHR 09/24/03	1628
SULFATE	27.3		0.50	mg/l	DHR 09/24/03	1628
SW846 9060						
ORGANIC CARBON, TOTAL	7.1		1.0	mg/l	CLB 09/30/03	1221

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16262

Client ID: **PW-14S**
Matrix : GW/ChemW

Sample ID : L03091708-21
Date Collected: 16-SEP-03 14:20
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
ACETONE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
BENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	0838
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	0838
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	0838
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	0838
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/18/03	0838
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/22/03	1036

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16262

Client ID: **PW-14S**

Sample ID : L03091708-21

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		10.3		0.50	mg/l	DHR 09/18/03	2209
NITRATE NITROGEN (AS N)		0.53		0.10	mg/l	DHR 09/17/03	1549
SULFATE		8.3		0.50	mg/l	DHR 09/17/03	1549
SW846 9060							
ORGANIC CARBON, TOTAL	<	1.0		1.0	mg/l	CLB 09/23/03	2335

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 2 Report ID: AB16122

Client ID: **PW-14D**
Matrix : GW/ChemW

Sample ID : L03091817-10
Date Collected: 17-SEP-03 08:30
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
ACETONE		70.7		10.0	ug/l	PAP 09/19/03	1300
BENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1300
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1300
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
STYRENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
TOLUENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1300
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/19/03	1300
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/19/03	1300
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/23/03	1317

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 2 of 2 Report ID: AB16122

Client ID: **PW-14D**

Sample ID : L03091817-10

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	8.5		0.50	mg/l	DHR 09/18/03	1902
NITRATE NITROGEN (AS N)	11.5		0.10	mg/l	DHR 09/18/03	1902
SULFATE	31.9		0.50	mg/l	DHR 09/18/03	1902
SW846 9060						
ORGANIC CARBON, TOTAL	11.8		1.0	mg/l	CLB 09/24/03	1453

Sample Comments: 8260 VOCs - The sample pH was 12 at the time of analysis. The sample was analyzed within two days of sample collection.

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16261

Client ID: **PW-15S**
Matrix : GW/ChemW

Sample ID : L03091708-20
Date Collected: 16-SEP-03 12:00
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
ACETONE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
BENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1727
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1727
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1727
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	1727
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/18/03	1727
SW846 8260M							
1,4-DIOXANE		**24.6**		10.0	ug/l	MGB 09/22/03	1633

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16261

Client ID: **PW-15S**

Sample ID : L03091708-20

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		17.8		1.0	mg/l	DHR 09/18/03	2154
NITRATE NITROGEN (AS N)		5.1		0.10	mg/l	DHR 09/17/03	1533
SULFATE		18.3		0.50	mg/l	DHR 09/17/03	1533
SW846 9060							
ORGANIC CARBON, TOTAL	<	1.0		1.0	mg/l	CLB 09/23/03	2305

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16260

Client ID: **PW-15D**
Matrix : GW/ChemW

Sample ID : L03091708-19
Date Collected: 16-SEP-03 11:30
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		24.0		5.0	ug/l	PAP	09/18/03	1708
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
1,1-DICHLOROETHANE		349		25.0	ug/l	PAP	09/19/03	0844
1,1-DICHLOROETHENE		78.2		5.0	ug/l	PAP	09/18/03	1708
1,2-DICHLOROETHANE		14.1		5.0	ug/l	PAP	09/18/03	1708
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
BENZENE		10.0		5.0	ug/l	PAP	09/18/03	1708
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1708
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
CHLOROBENZENE		728		25.0	ug/l	PAP	09/19/03	0844
CHLOROETHANE		162		10.0	ug/l	PAP	09/18/03	1708
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1708
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
CIS-1,2-DICHLOROETHENE		352		25.0	ug/l	PAP	09/19/03	0844
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
METHYLENE CHLORIDE		20.1		5.0	ug/l	PAP	09/18/03	1708
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1708
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1708
VINYL CHLORIDE		118		10.0	ug/l	PAP	09/18/03	1708
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1708
SW846 8260M								
1,4-DIOXANE		622		50.0	ug/l	MGB	09/23/03	1414

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16260

Client ID: **PW-15D**

Sample ID : L03091708-19

Parameter	Result	Qual	RDL	Units	Analyst	Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL	85.1		10.0	mg/l	DHR	09/18/03	2138
NITRATE NITROGEN (AS N)	18.0		0.10	mg/l	DHR	09/17/03	1518
SULFATE	31.6		0.50	mg/l	DHR	09/17/03	1518
SW846 9060							
ORGANIC CARBON, TOTAL	2.5		1.0	mg/l	CLB	09/23/03	2237

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 2 Report ID: AB16120

Client ID: **PW-16S**
Matrix : GW/ChemW

Sample ID : L03091817-08
Date Collected: 17-SEP-03 12:30
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
ACETONE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
BENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1224
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/19/03	1224
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
STYRENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
TOLUENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	1224
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/19/03	1224
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/19/03	1224
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/23/03	1026

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 2 of 2 Report ID: AB16120

Client ID: **PW-16S**

Sample ID : L03091817-08

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	28.5		2.5	mg/l	DHR 09/22/03	1214
NITRATE NITROGEN (AS N)	4.3		0.10	mg/l	DHR 09/18/03	2004
SULFATE	27.3		0.50	mg/l	DHR 09/18/03	2004
SW846 9060						
ORGANIC CARBON, TOTAL	2.9		1.0	mg/l	CLB 09/24/03	1257

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 2 Report ID: AB16121

Client ID: **PW-16D**
Matrix : GW/ChemW

Sample ID : L03091817-09
Date Collected: 17-SEP-03 12:00
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
1,1,2,2-TETRACHLOROETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
1,1,2-TRICHLOROETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
1,1-DICHLOROETHANE		501		100	ug/l	PAP 09/19/03	1242
1,1-DICHLOROETHENE	<	100	X	100	ug/l	PAP 09/19/03	1242
1,2-DICHLOROETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
1,2-DICHLOROPROPANE	<	100	X	100	ug/l	PAP 09/19/03	1242
2-BUTANONE	<	200	X	200	ug/l	PAP 09/19/03	1242
2-HEXANONE	<	200	X	200	ug/l	PAP 09/19/03	1242
4-METHYL-2-PENTANONE	<	100	X	100	ug/l	PAP 09/19/03	1242
ACETONE	<	200	X	200	ug/l	PAP 09/19/03	1242
BENZENE	<	100	X	100	ug/l	PAP 09/19/03	1242
BROMODICHLOROMETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
BROMOFORM	<	100	X	100	ug/l	PAP 09/19/03	1242
BROMOMETHANE	<	200	X	200	ug/l	PAP 09/19/03	1242
CARBON DISULFIDE	<	100	X	100	ug/l	PAP 09/19/03	1242
CARBON TETRACHLORIDE	<	100	X	100	ug/l	PAP 09/19/03	1242
CHLOROBENZENE		2680		100	ug/l	PAP 09/19/03	1242
CHLOROETHANE	<	200	X	200	ug/l	PAP 09/19/03	1242
CHLOROFORM	<	100	X	100	ug/l	PAP 09/19/03	1242
CHLOROMETHANE	<	200	X	200	ug/l	PAP 09/19/03	1242
CIS-1,2-DICHLOROETHENE		285		100	ug/l	PAP 09/19/03	1242
CIS-1,3-DICHLOROPROPENE	<	100	X	100	ug/l	PAP 09/19/03	1242
DIBROMOCHLOROMETHANE	<	100	X	100	ug/l	PAP 09/19/03	1242
ETHYLBENZENE	<	100	X	100	ug/l	PAP 09/19/03	1242
METHYLENE CHLORIDE	<	100	X	100	ug/l	PAP 09/19/03	1242
STYRENE	<	100	X	100	ug/l	PAP 09/19/03	1242
TETRACHLOROETHENE	<	100	X	100	ug/l	PAP 09/19/03	1242
TOLUENE	<	100	X	100	ug/l	PAP 09/19/03	1242
TRANS-1,2-DICHLOROETHENE	<	100	X	100	ug/l	PAP 09/19/03	1242
TRANS-1,3-DICHLOROPROPENE	<	100	X	100	ug/l	PAP 09/19/03	1242
TRICHLOROETHENE	<	100	X	100	ug/l	PAP 09/19/03	1242
VINYL ACETATE	<	200	X	200	ug/l	PAP 09/19/03	1242
VINYL CHLORIDE	<	200	X	200	ug/l	PAP 09/19/03	1242
XYLENE (TOTAL)	<	100	X	100	ug/l	PAP 09/19/03	1242
SW846 8260M							
1,4-DIOXANE		858		80.0	ug/l	MGB 09/23/03	1540

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 2 of 2 Report ID: AB16121

Client ID: **PW-16D**

Sample ID : L03091817-09

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	97.7		10.0	mg/l	DHR 09/22/03	1158
NITRATE NITROGEN (AS N)	10.1		0.10	mg/l	DHR 09/18/03	1917
SULFATE	19.6		0.50	mg/l	DHR 09/18/03	1917
SW846 9060						
ORGANIC CARBON, TOTAL	3.5		1.0	mg/l	CLB 09/24/03	1327

Davis & Floyd, Inc. | PO Drawer 428 | Greenwood, SC 29648 | 816 E. Durst Avenue | Greenwood, SC 29649 | (864) 229-4413 | Fax (864) 229-7119

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 02, 2003
Page 1 of 2 Report ID: AB16620

Client ID: PW-17
Matrix : GW/ChemW

Sample ID : L03092309-01
Date Collected: 22-SEP-03 15:30
Date Received : 23-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
ACETONE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
BENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1536
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1536
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1536
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/23/03	1536
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1536
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/23/03	1832

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 02, 2003
Page 2 of 2 Report ID: AB16620

Client ID: PW-17

Sample ID : L03092309-01

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	20.3		2.5	mg/l	DHR 09/23/03	1617
NITRATE NITROGEN (AS N)	6.2		0.10	mg/l	DHR 09/23/03	1325
SULFATE	47.4		0.50	mg/l	DHR 09/23/03	1325
SW846 9060						
ORGANIC CARBON, TOTAL	1.0		1.0	mg/l	CLB 09/24/03	1529

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16259

Client ID: **PW-18**
Matrix : GW/ChemW

Sample ID : L03091708-18
Date Collected: 16-SEP-03 09:10
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
4-METHYL-2-PENTANONE		**82.4**		5.0	ug/l	PAP 09/18/03	1649
ACETONE		**195**		10.0	ug/l	PAP 09/18/03	1649
BENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1649
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1649
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1649
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	1649
XYLENE (TOTAL)		**8.9**		5.0	ug/l	PAP 09/18/03	1649
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 09/22/03	1531

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16259

Client ID: **PW-18**

Sample ID : L03091708-18

Parameter	Result	Qual	RDL	Units	Analyst Date	Time

Sample Comments: 8260 VOCs - The sample pH was 12 at the time of analysis. The sample was analyzed within two days of sample collection.

Davis & Floyd, Inc. | PO Drawer 428 | Greenwood, SC 29648 | 816 E. Durst Avenue | Greenwood, SC 29649 | (864) 229-4413 | Fax (864) 229-7119

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16258

Client ID: PW-19
Matrix : GW/ChemW

Sample ID : L03091708-17
Date Collected: 16-SEP-03 08:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1631
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1631
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1631
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1631
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1631
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/22/03	1501

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18465

Client ID: PW-104I (PW-4I Duplicate)
Matrix : GW/ChemW

Sample ID : L03102316-06
Date Collected: 22-OCT-03 10:30
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		102		5.0	ug/l	PAP	10/24/03	1312
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
1,1-DICHLOROETHANE		370		20.0	ug/l	PAP	10/29/03	0913
1,1-DICHLOROETHENE		91.1		5.0	ug/l	PAP	10/24/03	1312
1,2-DICHLOROETHANE		255		20.0	ug/l	PAP	10/29/03	0913
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
ACETONE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
BENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1312
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
CHLOROBENZENE		252		20.0	ug/l	PAP	10/29/03	0913
CHLOROETHANE		12.8		10.0	ug/l	PAP	10/24/03	1312
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1312
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
CIS-1,2-DICHLOROETHENE		391		20.0	ug/l	PAP	10/29/03	0913
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
STYRENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
TETRACHLOROETHENE		22.7		5.0	ug/l	PAP	10/24/03	1312
TOLUENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1312
TRICHLOROETHENE		31.1		5.0	ug/l	PAP	10/24/03	1312
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/24/03	1312
VINYL CHLORIDE		150		10.0	ug/l	PAP	10/24/03	1312
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/24/03	1312
SW846 8260M								
1,4-DIOXANE		256		10.0	ug/l	MGB	10/24/03	1406

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18465

Client ID: **PW-104I** (PW-4I- Duplicate) Sample ID : L03102316-06

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		236		12.5	mg/l	DHR 10/23/03	1807
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 10/23/03	1531
SULFATE		17.3		0.50	mg/l	DHR 10/23/03	1531
SW846 9060							
ORGANIC CARBON, TOTAL		26.2		1.0	mg/l	CLB 10/29/03	1240

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : November 06, 2003
Page 1 of 2 Report ID: AB18466

Client ID: **PW-10012I** (PW-12I Duplicate) Sample ID : L03102316-08
Date Collected: 22-OCT-03 11:00
Matrix : GW/ChemW Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
2-BUTANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
2-HEXANONE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
ACETONE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
BENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
BROMOFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1331
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
CHLOROFORM	<	5.0		5.0	ug/l	PAP 10/24/03	1331
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
STYRENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
TOLUENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 10/24/03	1331
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 10/24/03	1331
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 10/24/03	1331
SW846 8260M							
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB 10/24/03	1503

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 2 of 2 Report ID: AB18466

Client ID: **PW-10012I** (PW-12I Duplicate) Sample ID : L03102316-08

Parameter	Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry						
SW846 9056						
CHLORIDE, TOTAL	22.0		2.5	mg/l	DHR 10/23/03	1854
NITRATE NITROGEN (AS N)	6.9		0.10	mg/l	DHR 10/23/03	1618
SULFATE	63.8		0.50	mg/l	DHR 10/23/03	1618
SW846 9060						
ORGANIC CARBON, TOTAL	2.2		1.0	mg/l	CLB 10/29/03	1338

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16161

Client ID: **OWDR-3** Sample ID : L03092201-06
Date Collected: 19-SEP-03 09:05
Matrix : GW/ChemW Date Received : 20-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
1,1-DICHLOROETHANE		201		5.0	ug/l	PAP 09/23/03	1148
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
1,2-DICHLOROETHANE		14.7		5.0	ug/l	PAP 09/23/03	1148
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
ACETONE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
BENZENE		6.1		5.0	ug/l	PAP 09/23/03	1148
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1148
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
CHLOROBENZENE		1390		50.0	ug/l	PAP 09/23/03	1454
CHLOROETHANE		455		50.0	ug/l	PAP 09/23/03	1340
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/23/03	1148
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
CIS-1,2-DICHLOROETHENE		11.1		5.0	ug/l	PAP 09/23/03	1148
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
METHYLENE CHLORIDE		12.0		5.0	ug/l	PAP 09/23/03	1148
STYRENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
TOLUENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/23/03	1148
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/23/03	1148
VINYL CHLORIDE		35.5		10.0	ug/l	PAP 09/23/03	1148
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/23/03	1148
SW846 8260M							
1,4-DIOXANE		690		50.0	ug/l	MGB 09/25/03	1858

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 06, 2003
Page 1 of 2 Report ID: AB16821

Client ID: **OW-DR-4**
Matrix : GW/ChemW

Sample ID : L03092309-02
Date Collected: 22-SEP-03 16:25
Date Received : 23-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE		1350		50.0	ug/l	PAP 09/23/03	1513
1,1,2,2-TETRACHLOROETHANE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
1,1,2-TRICHLOROETHANE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
1,1-DICHLOROETHANE		4850		500	ug/l	PAP 09/23/03	1825
1,1-DICHLOROETHENE		1860		50.0	ug/l	PAP 09/23/03	1513
1,2-DICHLOROETHANE		181		50.0	ug/l	PAP 09/23/03	1513
1,2-DICHLOROPROPANE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
2-BUTANONE	<	100	X	100	ug/l	PAP 09/23/03	1513
2-HEXANONE	<	100	X	100	ug/l	PAP 09/23/03	1513
4-METHYL-2-PENTANONE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
ACETONE	<	100	X	100	ug/l	PAP 09/23/03	1513
BENZENE		107		50.0	ug/l	PAP 09/23/03	1513
BROMODICHLOROMETHANE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
BROMOFORM	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
BROMOMETHANE	<	100	X	100	ug/l	PAP 09/23/03	1513
CARBON DISULFIDE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
CARBON TETRACHLORIDE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
CHLOROBENZENE		562		50.0	ug/l	PAP 09/23/03	1513
CHLOROETHANE		311		100	ug/l	PAP 09/23/03	1513
CHLOROFORM	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
CHLOROMETHANE	<	100	X	100	ug/l	PAP 09/23/03	1513
CIS-1,2-DICHLOROETHENE		8960		500	ug/l	PAP 09/23/03	1825
CIS-1,3-DICHLOROPROPENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
DIBROMOCHLOROMETHANE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
ETHYLBENZENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
METHYLENE CHLORIDE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
STYRENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
TETRACHLOROETHENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
TOLUENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
TRANS-1,2-DICHLOROETHENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
TRANS-1,3-DICHLOROPROPENE	<	50.0	X	50.0	ug/l	PAP 09/23/03	1513
TRICHLOROETHENE		65.4		50.0	ug/l	PAP 09/23/03	1513
VINYL ACETATE	<	100	X	100	ug/l	PAP 09/23/03	1513
VINYL CHLORIDE		1530		100	ug/l	PAP 09/23/03	1513
XYLENE (TOTAL)		53.5		50.0	ug/l	PAP 09/23/03	1513
SW846 8260M							
1,4-DIOXANE		2200		100	ug/l	MGB 09/23/03	1901

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 06, 2003
Page 2 of 2 Report ID: AB16821

Client ID: **OW-DR-4**

Sample ID : L03092309-02

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		150		25.0	mg/l	DHR 09/23/03	1703
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 09/23/03	1340
SULFATE		10		0.50	mg/l	DHR 09/23/03	1340
SW846 9060							
ORGANIC CARBON, TOTAL		17.9		1.0	mg/l	CLB 09/24/03	1600

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LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16246

Client ID: DRP-2
Matrix : GW/ChemW

Sample ID : L03091708-06
Date Collected: 15-SEP-03 15:45
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
ACETONE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
BENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1204
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
CHLOROBENZENE		**22.0**		5.0	ug/l	PAP 09/18/03	1204
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1204
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
CIS-1,2-DICHLOROETHENE		**7.6**		5.0	ug/l	PAP 09/18/03	1204
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1204
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	1204
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/18/03	1204
SW846 8260M							
1,4-DIOXANE		**23.0**		10.0	ug/l	MGB 09/23/03	1249

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16255

Client ID: DRP-4
Matrix : GW/ChemW

Sample ID : L03091708-13
Date Collected: 16-SEP-03 12:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
ACETONE		**24.2**		10.0	ug/l	PAP 09/18/03	1518
BENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1518
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/18/03	1518
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
STYRENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
TOLUENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/18/03	1518
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP 09/18/03	1518
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/18/03	1518
SW846 8260M							
1,4-DIOXANE		**180**		10.0	ug/l	MGB 09/22/03	1328

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 1 Report ID: AB18459

Client ID: **DRP-10**
Matrix : GW/ChemW

Sample ID : L03102316-01
Date Collected: 21-OCT-03 11:05
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
ACETONE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
BENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1118
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1118
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
STYRENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
TOLUENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1118
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/24/03	1118
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/24/03	1118
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	10/24/03	1143

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 1 Report ID: AB18460

Client ID: **DRP-11**
Matrix : GW/ChemW

Sample ID : L03102316-02
Date Collected: 21-OCT-03 12:00
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
ACETONE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
BENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1137
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/24/03	1137
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
STYRENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
TOLUENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	1137
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/24/03	1137
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/24/03	1137
SW846 8260M								
1,4-DIOXANE		**29.0**		10.0	ug/l	MGB	10/24/03	1212

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16119

Client ID: W-1
Matrix : GW/ChemW

Sample ID : L03091817-06
Date Collected: 17-SEP-03 14:00
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
ACETONE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
BENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1145
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1145
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
STYRENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
TETRACHLOROETHENE		76.4		5.0	ug/l	PAP	09/19/03	1145
TOLUENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1145
TRICHLOROETHENE		9.7		5.0	ug/l	PAP	09/19/03	1145
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/19/03	1145
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/19/03	1145
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/22/03	1438

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16115

Client ID: W-4
Matrix : GW/ChemW

Sample ID : L03091817-02
Date Collected: 17-SEP-03 10:00
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		27.9		5.0	ug/l	PAP	09/19/03	1000
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
1,1-DICHLOROETHANE		135		5.0	ug/l	PAP	09/19/03	1000
1,1-DICHLOROETHENE		56.9		5.0	ug/l	PAP	09/19/03	1000
1,2-DICHLOROETHANE		10.9		5.0	ug/l	PAP	09/19/03	1000
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
ACETONE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
BENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1000
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1000
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
CIS-1,2-DICHLOROETHENE		248		10.0	ug/l	PAP	09/19/03	1452
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
STYRENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
TOLUENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1000
TRICHLOROETHENE		8.1		5.0	ug/l	PAP	09/19/03	1000
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/19/03	1000
VINYL CHLORIDE		45.2		10.0	ug/l	PAP	09/19/03	1000
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/19/03	1000
SW846 8260M								
1,4-DIOXANE		162		10.0	ug/l	MGB	09/22/03	1105

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16116

Client ID: **W-4A**
Matrix : GW/ChemW

Sample ID : L03091817-03
Date Collected: 17-SEP-03 10:35
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		**82.9**		5.0	ug/l	PAP	09/19/03	1018
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
1,1-DICHLOROETHANE		**1350**		100	ug/l	PAP	09/19/03	1644
1,1-DICHLOROETHENE		**544**		20.0	ug/l	PAP	09/19/03	1511
1,2-DICHLOROETHANE		**68.1**		5.0	ug/l	PAP	09/19/03	1018
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
ACETONE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
BENZENE		**72.5**		5.0	ug/l	PAP	09/19/03	1018
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1018
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
CHLOROBENZENE		**29.1**		5.0	ug/l	PAP	09/19/03	1018
CHLOROETHANE		**18.5**		10.0	ug/l	PAP	09/19/03	1018
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/19/03	1018
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
CIS-1,2-DICHLOROETHENE		**1740**		100	ug/l	PAP	09/19/03	1644
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
STYRENE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
TETRACHLOROETHENE		**16.8**		5.0	ug/l	PAP	09/19/03	1018
TOLUENE		**15.1**		5.0	ug/l	PAP	09/19/03	1018
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/19/03	1018
TRICHLOROETHENE		**16.0**		5.0	ug/l	PAP	09/19/03	1018
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/19/03	1018
VINYL CHLORIDE		**286**		40.0	ug/l	PAP	09/19/03	1511
XYLENE (TOTAL)		**22.4**		5.0	ug/l	PAP	09/19/03	1018
SW846 8260M								
1,4-DIOXANE		**1090**		100	ug/l	MGB	09/22/03	1328

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 06, 2003
Page 1 of 2 Report ID: AB16820

Client ID: **W-5**
Matrix : GW/ChemW

Sample ID : L03091817-04
Date Collected: 17-SEP-03 11:45
Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		**135000**		5000	ug/l	PAP	09/19/03	1529
1,1,2,2-TETRACHLOROETHANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
1,1,2-TRICHLOROETHANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
1,1-DICHLOROETHANE		**9220**		5000	ug/l	PAP	09/19/03	1529
1,1-DICHLOROETHENE		**31800**		5000	ug/l	PAP	09/19/03	1529
1,2-DICHLOROETHANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
1,2-DICHLOROPROPANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
2-BUTANONE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
2-HEXANONE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
4-METHYL-2-PENTANONE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
ACETONE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
BENZENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
BROMODICHLOROMETHANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
BROMOFORM	<	5000	X	5000	ug/l	PAP	09/19/03	1529
BROMOMETHANE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
CARBON DISULFIDE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
CARBON TETRACHLORIDE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
CHLOROBENZENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
CHLOROETHANE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
CHLOROFORM	<	5000	X	5000	ug/l	PAP	09/19/03	1529
CHLOROMETHANE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
CIS-1,2-DICHLOROETHENE		**56400**		5000	ug/l	PAP	09/19/03	1529
CIS-1,3-DICHLOROPROPENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
DIBROMOCHLOROMETHANE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
ETHYLBENZENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
METHYLENE CHLORIDE		**81900**		5000	ug/l	PAP	09/19/03	1529
STYRENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
TETRACHLOROETHENE		**6340**		5000	ug/l	PAP	09/19/03	1529
TOLUENE		**7580**		5000	ug/l	PAP	09/19/03	1529
TRANS-1,2-DICHLOROETHENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
TRANS-1,3-DICHLOROPROPENE	<	5000	X	5000	ug/l	PAP	09/19/03	1529
TRICHLOROETHENE		**28400**		5000	ug/l	PAP	09/19/03	1529
VINYL ACETATE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
VINYL CHLORIDE	<	10000	X	10000	ug/l	PAP	09/19/03	1529
XYLENE (TOTAL)	<	5000	X	5000	ug/l	PAP	09/19/03	1529
SW846 8260M								
1,4-DIOXANE		**11300**		1000	ug/l	MGB	09/22/03	1230

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : October 06, 2003
Page 2 of 2 Report ID: AB16820

Client ID: W-5 Sample ID : L03091817-04

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Wet Chemistry							
SW846 9056							
CHLORIDE, TOTAL		247		25.0	mg/l	DHR 09/22/03	1143
NITRATE NITROGEN (AS N)	<	0.10		0.10	mg/l	DHR 09/18/03	1846
SULFATE		6.5		0.50	mg/l	DHR 09/18/03	1846
SW846 9060							
ORGANIC CARBON, TOTAL		60.4		2.0	mg/l	CLB 09/24/03	0008

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : September 30, 2003
Page 1 of 1 Report ID: AB16113

Client ID: W-21 Sample ID : L03091817-01
Date Collected: 17-SEP-03 09:25
Matrix : GW/ChemW Date Received : 18-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst Date	Time
Volatile Organics							
SW846 8260B							
1,1,1-TRICHLOROETHANE		106		5.0	ug/l	PAP 09/19/03	0941
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
1,1-DICHLOROETHANE		140		5.0	ug/l	PAP 09/19/03	0941
1,1-DICHLOROETHENE		151		5.0	ug/l	PAP 09/19/03	0941
1,2-DICHLOROETHANE		44.6		5.0	ug/l	PAP 09/19/03	0941
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
2-BUTANONE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
2-HEXANONE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
ACETONE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
BENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
BROMOFORM	<	5.0		5.0	ug/l	PAP 09/19/03	0941
BROMOMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
CHLOROETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
CHLOROFORM	<	5.0		5.0	ug/l	PAP 09/19/03	0941
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
CIS-1,2-DICHLOROETHENE		384		15.0	ug/l	PAP 09/19/03	1548
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
STYRENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
TETRACHLOROETHENE		140		5.0	ug/l	PAP 09/19/03	0941
TOLUENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP 09/19/03	0941
TRICHLOROETHENE		105		5.0	ug/l	PAP 09/19/03	0941
VINYL ACETATE	<	10.0		10.0	ug/l	PAP 09/19/03	0941
VINYL CHLORIDE		76.7		10.0	ug/l	PAP 09/19/03	0941
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP 09/19/03	0941
SW846 8260M							
1,4-DIOXANE		743		40.0	ug/l	MGB 09/22/03	1133

Surface Water

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16251

Client ID: **SW-1**
Matrix : GW/ChemW

Sample ID : L03091708-10
Date Collected: 16-SEP-03 10:40
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1422
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1422
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1422
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1422
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1422
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/22/03	1156

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 2 Report ID: AB16249

Client ID: **SW-2**
Matrix : GW/ChemW

Sample ID : L03091708-08
Date Collected: 15-SEP-03 16:45
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1243
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
CHLOROBENZENE		**9.6**		5.0	ug/l	PAP	09/18/03	1243
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1243
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1243
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1243
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1243
SW846 8260M								
1,4-DIOXANE		**305**		30.0	ug/l	MGB	09/22/03	2038

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 2 of 2 Report ID: AB16249

Client ID: **SW-2**
Sample ID : L03091708-08

Parameter	Result	Qual	RDL	Units	Analyst	Date	Time

Sample Comments: 8260 VOCs - The sample pH was 6 at the time of analysis. The sample was analyzed within three days of sample collection.

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16254

Client ID: **SW-3**
Sample ID : L03091708-11
Date Collected: 16-SEP-03 11:00
Matrix : GW/ChemW
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE		**13.0**		5.0	ug/l	PAP	09/18/03	1440
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
1,1-DICHLOROETHANE		**42.4**		5.0	ug/l	PAP	09/18/03	1440
1,1-DICHLOROETHENE		**16.8**		5.0	ug/l	PAP	09/18/03	1440
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
ACETONE	<	**10.0**		10.0	ug/l	PAP	09/18/03	1440
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1440
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1440
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
CIS-1,2-DICHLOROETHENE		**50.4**		5.0	ug/l	PAP	09/18/03	1440
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
METHYLENE CHLORIDE		**7.2**		5.0	ug/l	PAP	09/18/03	1440
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1440
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1440
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1440
SW846 8260M								
1,4-DIOXANE		**202**		10.0	ug/l	MGB	09/22/03	1227

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16247

Client ID: **SW-4**
Matrix : GW/ChemW

Sample ID : L03091708-07
Date Collected: 15-SEP-03 16:10
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
1,1-DICHLOROETHANE		**7.7**		5.0	ug/l	PAP	09/18/03	1223
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
ACETONE		**11.0**		10.0	ug/l	PAP	09/18/03	1223
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1223
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
CHLOROBENZENE		**12.2**		5.0	ug/l	PAP	09/18/03	1223
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1223
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1223
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1223
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1223
SW846 8260M								
1,4-DIOXANE		**118**		10.0	ug/l	MGB	09/22/03	1025

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16252

Client ID: **SW-5**
Matrix : GW/ChemW

Sample ID : L03091708-12
Date Collected: 16-SEP-03 11:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1459
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1459
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1459
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1459
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1459
SW846 8260M								
1,4-DIOXANE		**12.4**		10.0	ug/l	MGB	09/22/03	1258

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16250

Client ID: SW-6
Matrix : GW/ChemW

Sample ID : L03091708-09
Date Collected: 16-SEP-03 09:45
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1403
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1403
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1403
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1403
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1403
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/22/03	1126

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16242

Client ID: SW-7
Matrix : GW/ChemW

Sample ID : L03091708-01
Date Collected: 15-SEP-03 14:15
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1032
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1032
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1032
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1032
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1032
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/19/03	0920

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16244

Client ID: **SW-DRP-2**
Matrix : GW/ChemW

Sample ID : L03091708-05
Date Collected: 15-SEP-03 15:30
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1146
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1146
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1146
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1146
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1146
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/19/03	1114

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00

Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16248

Client ID: **SW-DRP-4**
Matrix : GW/ChemW

Sample ID : L03091708-04
Date Collected: 15-SEP-03 15:00
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1128
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1128
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1128
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1128
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1128
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/19/03	1045

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16243

Client ID: SW-DRP-10
Matrix : GW/ChemW

Sample ID : L03091708-02
Date Collected: 15-SEP-03 14:30
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1051
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1051
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1051
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1051
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1051
SW846 8260M								
1,4-DIOXANE	<	10.0		10.0	ug/l	MGB	09/19/03	0948

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16245

Client ID: SW-DRP-11
Matrix : GW/ChemW

Sample ID : L03091708-03
Date Collected: 15-SEP-03 13:30
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1109
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	1109
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	1109
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	1109
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	1109
SW846 8260M								
1,4-DIOXANE		53.5		10.0	ug/l	MGB	09/19/03	1017

QA / QC

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16263

Client ID: **TRIP BLANK #1**
Matrix : GW/ChemW

Sample ID : L03091708-22
Date Collected:
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	0802
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	0802
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0802
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	0802
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	0802

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *SC Certification Number: 24110*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 01, 2003
Page 1 of 1 Report ID: AB16264

Client ID: **TRIP BLANK #2**
Matrix : GW/ChemW

Sample ID : L03091708-23
Date Collected:
Date Received : 17-SEP-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
2-BUTANONE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
2-HEXANONE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
ACETONE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
BENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
BROMOFORM	<	5.0		5.0	ug/l	PAP	09/18/03	0820
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
CHLOROFORM	<	5.0		5.0	ug/l	PAP	09/18/03	0820
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
STYRENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
TOLUENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	09/18/03	0820
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	09/18/03	0820
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	09/18/03	0820

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : October 31, 2003
Page 1 of 1 Report ID: AB18199

Client ID: **TRIP BLANK**
Matrix : GW/ChemW

Sample ID : L03102102-03
Date Collected:
Date Received : 21-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
ACETONE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
BENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1450
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/23/03	1450
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
STYRENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
TOLUENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/23/03	1450
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/23/03	1450
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/23/03	1450

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

NELAC Certification Number: E87633 *NC Certification Number: 25*

Client : **ERM-SEABOARD**
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226
Contact : TOM WILSON

Project Number: 61830.00
Report Date : November 06, 2003
Page 1 of 1 Report ID: AB18468

Client ID: **TRIP BLANK**
Matrix : GW/ChemW

Sample ID : L03102316-10
Date Collected: 10-22-03 JW 11/15/04
Date Received : 23-OCT-03

Parameter		Result	Qual	RDL	Units	Analyst	Date	Time
Volatile Organics								
SW846 8260B								
1,1,1-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,1,2,2-TETRACHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,1,2-TRICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,1-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,1-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,2-DICHLOROETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
1,2-DICHLOROPROPANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
2-BUTANONE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
2-HEXANONE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
4-METHYL-2-PENTANONE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
ACETONE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
BENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
BROMODICHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
BROMOFORM	<	5.0		5.0	ug/l	PAP	10/24/03	0850
BROMOMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
CARBON DISULFIDE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
CARBON TETRACHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
CHLOROBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
CHLOROETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
CHLOROFORM	<	5.0		5.0	ug/l	PAP	10/24/03	0850
CHLOROMETHANE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
CIS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
CIS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
DIBROMOCHLOROMETHANE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
ETHYLBENZENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
METHYLENE CHLORIDE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
STYRENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
TETRACHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
TOLUENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
TRANS-1,2-DICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
TRANS-1,3-DICHLOROPROPENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
TRICHLOROETHENE	<	5.0		5.0	ug/l	PAP	10/24/03	0850
VINYL ACETATE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
VINYL CHLORIDE	<	10.0		10.0	ug/l	PAP	10/24/03	0850
XYLENE (TOTAL)	<	5.0		5.0	ug/l	PAP	10/24/03	0850

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

Chain of Custody Record

Davis & Floyd, Inc. | PO Drawer 428 | Greenwood, SC 29648 | 816 E. Durst Avenue | Greenwood, SC 29649 | (864) 229-4413 | Fax (864) 229-7119

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
ERM	61830-00	

Contact	Report To	Copy To	Reporting Requirements: [X] Standard [ ] Data Package (Specify Level)	Purchase Order
Tom Wilson	Tom Wilson			

Collected By: 7300 Carmel Exec Park # 200, Charlotte, NC 28226

State: NC

Quote:

Special Instructions:

NOTICE:

Required Parameters, Containers and Preservatives: VOCs 8260; 1,4-Dioxane

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VOCs 8260	1,4-Dioxane	Login L0301709 Fraction	HOT (Indicate any known or expected hazards.)	Comments
SW-ORP	9/15/03	1415			X	160	7	X	X	01		
SW-ORP-10		1430						X	X	02		
SW-ORP-11		1330						X	X	03		
SW-ORP-4		1500						X	X	04		
SW-ORP-2		1520						X	X	05		
ORP-2		1545						X	X	06		
SW-4		1610						X	X	07		
SW-2		1645						X	X	08		
SW-6	9-16-03	945						X	X	09		
SW-1		1040						X	X	10		
SW-3		1100						X	X	11		
SW-5		1115						X	X	12		
ORP-4		1215					4	X	X	13		
MW-10		1335					7	X	X	14		
MW-12A		1415					7	X	X	15		

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
TS Bell	9/16/03	1700							Y N	D&F UPS CLIENT FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Tisa M. Davis	9.17.03	11:40		

Comments:

Cooler ID (if available): 0137
On Ice: Yes No Temp(C) 4
Custody Seal: Intact Broken / None

Matrix Type Definitions: 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions: A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
ERM	61830-00	

Contact	Report To	Copy To	Reporting Requirements: [X] Standard [ ] Data Package (Specify Level)	Purchase Order
Tom Wilson	Tom Wilson			

Collected By: 7300 Carmel Exec Park #200 Charlotte NC 28226

State: NC

Quote:

Special Instructions:

NOTICE:

Required Parameters, Containers and Preservatives

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VOC 8260	1-4 Dioxane	Natural Att. Parameters										Login	Indicate any known or expected hazards.	Comments
				Type			Total													Fraction	HOT	
MW-12B	9-16-03	1515						X	X	X										16		Natural
PW-19		815						X	X											17		Attenuation
PW-18		910						X	X											18		Parameters
PW-15D		1130						X	X	X										19		include
PW-15S		1200						X	X	X										20		Nitrate,
PW-14S		1420						X	X	X										21		Sulfate,
Trip Blank 1								X												22		+ TOC
Trip Blank 2								X												23		

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
TS Bl	9/16/03	1700							Y N	D&F CLIENT UPS FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify:	Airbill Number
						Tisa M. Davis	9.17.03	10:40	— days	

Comments:

Cooler ID (if available): —
On Ice: Yes / No Temp(C) 4
Custody Seal: Intact / Broken / None

Matrix Type Definitions 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
ERM	61830-00	

Contact	Report To	Copy To	Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level)	Purchase Order
Tom Wilson	Tom Wilson			

Collected By: 7800 Carmel Exec Park #200 Charlotte NC 28226

Quote:

Special Instructions:

State:

Login: L0309181 7

NOTICE:

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VOC's 8260	1-4 Dioxane	Natural Att. Parameters									Fraction	HOT	Comments
W-21	9-17-03	925			X	S	7	X	X										01		Natural
W-4		1000						X	X										02		Attenuation
W-4A		1035						X	X										03		Parameters
W-5		1145					10	X	X	X									04		include
PW-8S		1310					7	X	X										05		nitrate
W-1		1400						X	X										06		Sulfate
MW-15A		1430						X	X										07		+ TOC
PW-16S		1230					10	X	X	X									08		
PW-16D		1200					10	X	X	X									09		
PW-14D		830					10	X	X	X									10		
Trip Blank								X											11		

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
[signature]	9/17	1900							Y N	D&F UPS CLIENT FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ____ days	Airbill Number
						Tisa M. Davis	9.18.03	11:30		

Comments:

Cooler ID (if available): 9-18-03 NA 0346
On Ice: Yes / No Temp(C) 1
Custody Seal: Intact / Broken / None

Matrix Type Definitions: 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions: A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

Page 1 of 1

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
ERM	61830-00	

Contact	Report To	Copy To	Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level)	Purchase Order
Tom Wilson	Tom Wilson			

Collected By: 7305 Carmel Exec Park #200, Charlotte, NC 28226

State: | Quote: | Special Instructions:

Login: L0309220

NOTICE:

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VOCs 8260	1-4 Dioxane	Natural AH Parameters										Fraction	Indicate any known or expected hazards. HOT	Comments
PW-10I	9-18	1200			X	5	7	X	X	~~500~~										01		
PW-10D	9-19	1000					~~10~~	X	X	~~5~~	9/22/03									02		
PW-5D		1030					10 7	X	X	X										03		
~~PW-15~~ MW-11		1100					7	X	X											04		
~~MW-11~~		~~1100~~					~~7~~	~~X~~	~~X~~											~~05~~		
MW-3C		945					7	X	X											~~06~~ 05		
~~Trip Blank~~								~~X~~												~~07~~		
OW2R-3	9-19-03	~~0945~~ 0905			X	~~5~~		X	X											07		

Page 15 of 9-20-03

9-25-03

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
[signature]	9-19-03	1400							Y N	D&F CLIENT UPS FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Paula Pulley	9/20/03	1030		

Comments: TRIP BLK MISSING - [signature] 9-25-03

Cooler ID (if available): ___
On Ice: Yes No Temp(C) 4
Custody Seal: Intact Broken / None

Matrix Type Definitions: 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions: A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
Seaboard Group 2 / City of High Point,NC	********** ~~64014.00~~ TP	

Contact	Report To	Copy To	Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level)	Purchase Order
Mr. Allen Martin	Tom Wilson			

Collected By: 7300 Carmel Exec Park #200 Charlotte, NC 28226

Atmospheric Conditions (Optional)

State: NC

Quote

Login: L0309309

Special Instructions

NOTICE:

Sample Description	Sample Collection Date	Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	40ml Glass VO/8260 C	40ml Glass VO/Dioxane C	500ml Plastic WC/Cl/not, SO4 A	250ml Glass WC/TOC B	250ml Plastic WC/NO3 B	Natural Att. Parameters	Fraction	HOT	Comments
PW-17	9-22-03	1530			X	5	10	X	X				X	01		Natural
OW DR-4	9-22-03	1625			X	5	10	X	X				X	02		Attenuation
																Parameters
																Include
																Nitrate,
																Sulfate,
																TOC

Indicate any known or expected hazards.

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
[signature]	9/22/03	1700							Y N	D&F CLIENT UPS FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Tisa M. Davis	9.23.03	11:15		

Comments

Cooler ID (if available): 0376
On Ice: Yes / No Temp(C) 4
Custody Seal: Intact / Broken / None

Matrix Type Definitions 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
Seaboard Group 2 / City of High Point,NC	********** ~~01014.00~~	

Contact	Report To	Copy To	Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level)	Purchase Order
Mr. Allen Martin	Tom Wilson			

Collected By

Atmospheric Conditions (Optional)

State: NC

Quote

Special Instructions

Login: L0309241 0

NOTICE:

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	40ml Glass VO/8260 C	40ml Glass VO/Dioxane C	500ml Plastic WC/CL/Tot, SO4 A	250ml Glass WC/TOC B	250ml Plastic WC/NO3 B	Natural Att Parameters	Fraction	Indicate any known or expected hazards. HOT	Comments
PW-11I	9-23-03	1000			X		10	X	X				X	01		Natural
PW-13I	↓	1055			X		10	X	X				X	02		Attenuation
Trip Blank							2	X						03		Parameters
																Include
																Nitrate
																Sulfate
																TOC

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
[signature]	9/23	1400							Y N	D&F UPS CLIENT FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Tisa M Davis	9/23/03	11:15		

Comments

Cooler ID (if available): —
On Ice: Yes / No Temp(C) 4
Custody Seal: Intact / Broken None

Matrix Type Definitions 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
Seaboard Group 2 / City of High Point,NC	********** ~~64014.00~~	

Contact	Report To	Copy To	Reporting Requirements: [X] Standard [ ] Data Package (Specify Level)	Purchase Order
Mr. Allen Martin				

Collected By: Thomas Hedrick, ERM, 7302 Carmel Exec Park #200 CLT, NC 28226

Atmospheric Conditions (Opional)

State: NC

Quote

Special Instructions

NOTICE:

Required Parameters, Containers and Preservatives

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VO/8260 (40ml Glass) C	VO/Dioxane (40ml Glass) C	WC/CL/tot, SO4 (500ml Plastic) A	WC/TOC (250ml Glass) B	WC/NO3 (250ml Plastic) B	Natural Att. Parameters							Login L031021 Fraction	Indicate any known or expected hazards. HOT	Comments
PW-6I	10-20-03	1050			X		10	X	X				X							01		Natural
PW-6D	"	1300			X		10	X	X				X							02		Attenuation
Trip Blank								X												03		Parameters
																						include
																						Nitrate
																						sulfate or
																						TOC

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
TS [illegible]	10/20/03	1530							Y N	D&F CLIENT UPS FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Tisa M. Davis	10.21.03	11:15		

Comments

Cooler ID (if available): 0154
On Ice: Yes / No Temp(C) 3
Custody Seal: Intact / Broken / None

Matrix Type Definitions 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

DAVIS & FLOYD Engineering Architecture Environmental & Laboratory Services

Chain of Custody Record

Page 1 of 1

816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Laboratory Certifcation Numbers: SC - 24110, NC - 25, TN - 2923, VA - 77

Client	Project / Site Location	Office Use Only
ERM/Seaboard Group ,NC	61830.00 Babb & Associates	

Contact	Report To	Copy To	Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level)	Purchase Order
Bruce Lefler				

Collected By Thomas Hedrick ERM
7300 Carmel Exec Park #200
Charlotte NC 28226

State: NC
Login: L0310231 6
Quote:
Special Instructions:

NOTICE:

Required Parameters, Containers and Preservatives: 40ml G VOC 8260 C; 40ml G 1,4-Dioxane C; 125ml G TOC B; 250ml P NO3 B; 500ml P Cl,SO4 A

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only)	Composite	Grab	Matrix	Number of Containers	VOC 8260 C	1,4-Dioxane C	TOC B	NO3 B	Cl,SO4 A	Fraction	HOT (Indicate any known or expected hazards.)	Comments
ORP-10	10-21-03	1105			X		7	X	X	X	X	X	01		
ORP-11	10-21-03	1200			X		7	X	X	X	X	X	02		
PW-7I	10-22-03	930			X		10	X	X	X	X	X	03		
MW-12D	10-22-03	945			X			X	X	X	X	X	04		
PW-4I		1030			X			X	X	X	X	X	05		
PW-104I		1030			X			X	X	X	X	X	06		
PW-12I		1100			X			X	X	X	X	X	07		
PW-10012I		1100			X			X	X	X	X	X	08		
MW-6		1245			X			X	X	X	X	X	09		
Trip Blank								X					10		

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Quick TAT	Shipped By
TS [illegible]	10-22-03	1530							Y N	D&F UPS CLIENT FEDEX
Received By	**Date**	**Time**	**Received By**	**Date**	**Time**	**Received in Laboratory By**	**Date**	**Time**	If Y, specify: ___ days	Airbill Number
						Donna Rhodes	10-23-03	1130		

Comments
Color has a short holding time of 48 hours

Cooler ID (if available): 0211
On Ice: Yes / No Temp(C) 3
Custody Seal: Intact / Broken / None

Matrix Type Definitions 1 -Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
Preservative Definitions A -None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

Davis & Floyd, Inc.
FL02_01 (02/99)

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RDL	Report Detection Limit	**MDL**	Method Detection Limit
TOP	Top of Pipe	**MSL**	Mean Sea Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
BTU	British Thermal Units	**NTU**	Nephelometric Turbidity Units
C	Degrees Centigrade	**F**	Degrees Fahrenheit
umhos/cm	micromhos/cm	**meq**	milliequivalents
kg	kilogram(s)	**g**	gram(s)
mg	milligram(s)	**ug**	microgram(s)
l	liter(s)	**ml**	milliliters(s)
ul	microliter(s)	**m3**	cubic meter(s)
lb	pound(s)	**ft3**	cubic foot(feet)
ft	foot(feet)	**TIC**	Tentatively Identified Compounds

mg/l, mg/kg Units of concentration in milligrams per liter for liquids and milligrams per kilogram for solids. Also referred to as Parts Per Million or "ppm" when the assumption is made that the specific gravity or density is one (1 g/ml).

ug/l, ug/kg Units of concentration in micrograms per liter for liquids and micrograms per kilograms for solids. Also referred to as Parts Per Billion or "ppb" when the assumption is made that the specific gravity or density is one (1 g/ml).

wt% Units of concentration expressed on a weight/weight basis (e.g. grams per 100 grams).

< Less Than – The number following the sign is the limit of quantitation, the smallest amount of analyte that can be reliably determined using this test.

> Greater Than

Data Qualifiers:

- **A** TIC is a possible aldol-condensation product resulting from sample extraction, (Organics)
- **B** Analyte also detected in the method blank.
- **C** Amendable Cyanide is a negative value due to an unknown interference.
- **E** Estimated concentration due to interference.
- **J** Estimated value below RDL or estimated value for TIC. (Organics)
- **P** Concentration difference between primary and confirmation columns >25%. (Organics) The lower result is reported.
- **X** Matrix interference which requires dilution or prevents the reporting of a result. Detection limits have been adjusted where applicable.
- ***** Defined in report comments.

Solid samples (i.e. soil, sludge, and solid waste) are reported on a dry weight basis unless otherwise noted.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or biological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of the material involved, the test results will be meaningless. If you have any questions regarding the proper techniques of collecting samples, please contact us. However, we cannot be held responsible for sample integrity unless sampling has been performed by a member of our staff.

<u>WARRANTY AND LIMITATION OF LIABILITY</u> – The accuracy of all analytical results is warranted for the sample as it is received by the laboratory. Warranty for the integrity of the sample begins at the time it is placed in the possession of authorized Davis & Floyd, Inc. Laboratories personnel. All other warranties, expressed or implied, are disclaimed. Liability is limited to the cost of the analysis.

Davis & Floyd, Inc.
AD07_01 (07/99)

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

October 06, 2003

TOM WILSON
ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Login Numbers : L03091708, L03091817, L03092201, L03092309, L03092410
Project Number: : 61830.00
Description : KERSEY VALLEY LANDFILL, HIGH POINT NC

Dear Tom Wilson:

We are pleased to provide the enclosed analytical results for the samples received by Davis & Floyd, Inc. September 17, 2003 through September 24, 2003.

A formal Quality Assurance/Quality Control program is maintained by Davis & Floyd, which is designed to meet or exceed the EPA, NELAC or other appropriate regulatory requirements. All analytical analyses for this project met QA/QC criteria and the results are within the 99% confidence interval for each method unless otherwise stated in the footnotes. This report is to be reproduced only in full.

Feel free to contact our Client Services Representative at (864) 229-4413 if further explanation of the analysis is required. Unless other arrangements have been made, samples will be disposed of or returned 14 days from the date of this report. We appreciate the opportunity to provide services to your firm.

Sincerely,
DAVIS & FLOYD, INC.

John H. McCord, Jr.
Laboratory Manager

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

October 31, 2003

TOM WILSON
ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226

NOV - 3 2003

Login Number :L03102102
Project Number :61830.00
Description :SEABOARD GROUP 2/CITY OF HIGH POINT, NC

Dear Tom Wilson:

We are pleased to provide the enclosed analytical results for the samples received by Davis & Floyd, Inc. on October 21, 2003.

A formal Quality Assurance/Quality Control program is maintained by Davis & Floyd, which is designed to meet or exceed the EPA, NELAC or other appropriate regulatory requirements. All analytical analyses for this project met QA/QC criteria and the results are within the 99% confidence interval for each method unless otherwise stated in the footnotes. This report is to be reproduced only in full.

Feel free to contact our Client Services Representative at (864) 229-4413 if further explanation of the analysis is required. Unless other arrangements have been made, samples will be disposed of or returned 14 days from the date of the report. We appreciate the opportunity to provide services to your firm.

Sincerely,
DAVIS & FLOYD, INC.

John H. McCord, Jr.
Laboratory Manager

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

November 06, 2003

TOM WILSON
ERM-SEABOARD
7300 CARMEL EXECUTIVE PARK
SUITE 200
CHARLOTTE, NC 28226

NOV 10 2003

Login Number :L03102316
Project Number :61830.00
Description :KERSEY VALLEY LANDFILL

Dear Tom Wilson:

We are pleased to provide the enclosed analytical results for the samples received by Davis & Floyd, Inc. on October 23, 2003.

A formal Quality Assurance/Quality Control program is maintained by Davis & Floyd, which is designed to meet or exceed the EPA, NELAC or other appropriate regulatory requirements. All analytical analyses for this project met QA/QC criteria and the results are within the 99% confidence interval for each method unless otherwise stated in the footnotes. This report is to be reproduced only in full.

Feel free to contact our Client Services Representative at (864) 229-4413 if further explanation of the analysis is required. Unless other arrangements have been made, samples will be disposed of or returned 14 days from the date of the report. We appreciate the opportunity to provide services to your firm.

Sincerely,
DAVIS & FLOYD, INC.

John H. McCord, Jr.
Laboratory Manager