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QUARTERLY REPORT
CORRECTIVE ACTION PROGRAM WWTP
2/87 TO 4/87
NAS PENSACOLA, FLORIDA

CONTENTS

	Page
INTRODUCTION	1
CORRECTIVE-ACTION PROGRAM	5
System Description	5
Recovery-Well Installation	6
Recovery-System Construction	6
Monitoring Program	11
SYSTEM START-UP	17
Background	17
Water-Quality Data	17
Water-Level Data	22
APPENDIX A - Lithologic Logs of Recovery Wells	A-1
APPENDIX B - Recovery-System Data	B-1
APPENDIX C - Water Quality Laboratory Water-Quality Results Phase II Water-Quality Summary	C-1

TABLES

		Page
1.	Construction Details of Recovery Wells Installed at the WWTP	7
2.	Corrective-Action Monitoring Program	13
3.	Construction Details of Monitor Wells Installed by Geraghty & Miller, Inc., at NAS-Pensacola	16
4.	Summary of Organic Compounds Detected in the Monitor and Recovery Wells During Start-up	19
5.	Specific Conductance and pH Measurements from the Monitor and Recovery Wells	20
6.	Water-Level Elevations in Monitor and Recovery Wells	24

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FIGURES

		Page
1.	Location of the NAS-Pensacola Industrial Wastewater-Treatment Facility	2
2.	Locations of Recovery Wells	3
3.	Schematic Diagram of Typical Below-Grade Recovery-Well Details	8
4.	Schematic Diagram of Typical Above-Grade Recovery Well	10
5.	Recovery System Progress Report Form	12
6.	Locations of Monitor Wells at the WWTP Site	14
7.	Areal Distribution of Total Organic Compound Concentrations in the Monitor and Recovery Wells	21
8.	Water-Table Contour Map on February 3 and 4, 1987 (pre-pumping)	23
9.	Water-Level Elevations on February 6, 1987 (Recovery-Well System Pumping for Two days)	25

INTRODUCTION

Geraghty L Miller, Inc., (G&M) was retained in May 1984 by the Naval Facilities Engineering Command, Southern Division (Navy), to provide hydrogeologic consulting services concerning the industrial wastewater-treatment plant (WWTP) at the Naval Air Station (NAS) in Pensacola, Florida (Figure 1). The WWTP includes three surface impoundments: the surge pond the intermediate pond, and the polishing pond (Figure 2). The surge pond, is designated as a RCRA (Resource Conservation and Recovery Act) hazardous-waste surface impoundment because it receives untreated wastewater from metal-plating activities at the NAS. Data collected from RCRA interim status monitor wells located near the surge pond showed elevated levels of hazardous constituents.

G&M conducted a two-phased investigation (Water-Quality Assessment Program) of the WWTP area in order to determine the horizontal and vertical extent and concentration of contaminants in the shallow ground water underlying the site. The results of the Phase I investigation were presented in a report dated January 1985 entitled, "Water-Quality Assessment Program at the Wastewater-Treatment Plant, NAS Pensacola, Florida (Phase I)." The Phase 11 results were presented in a report entitled, "Water-Quality Assessment Program at the

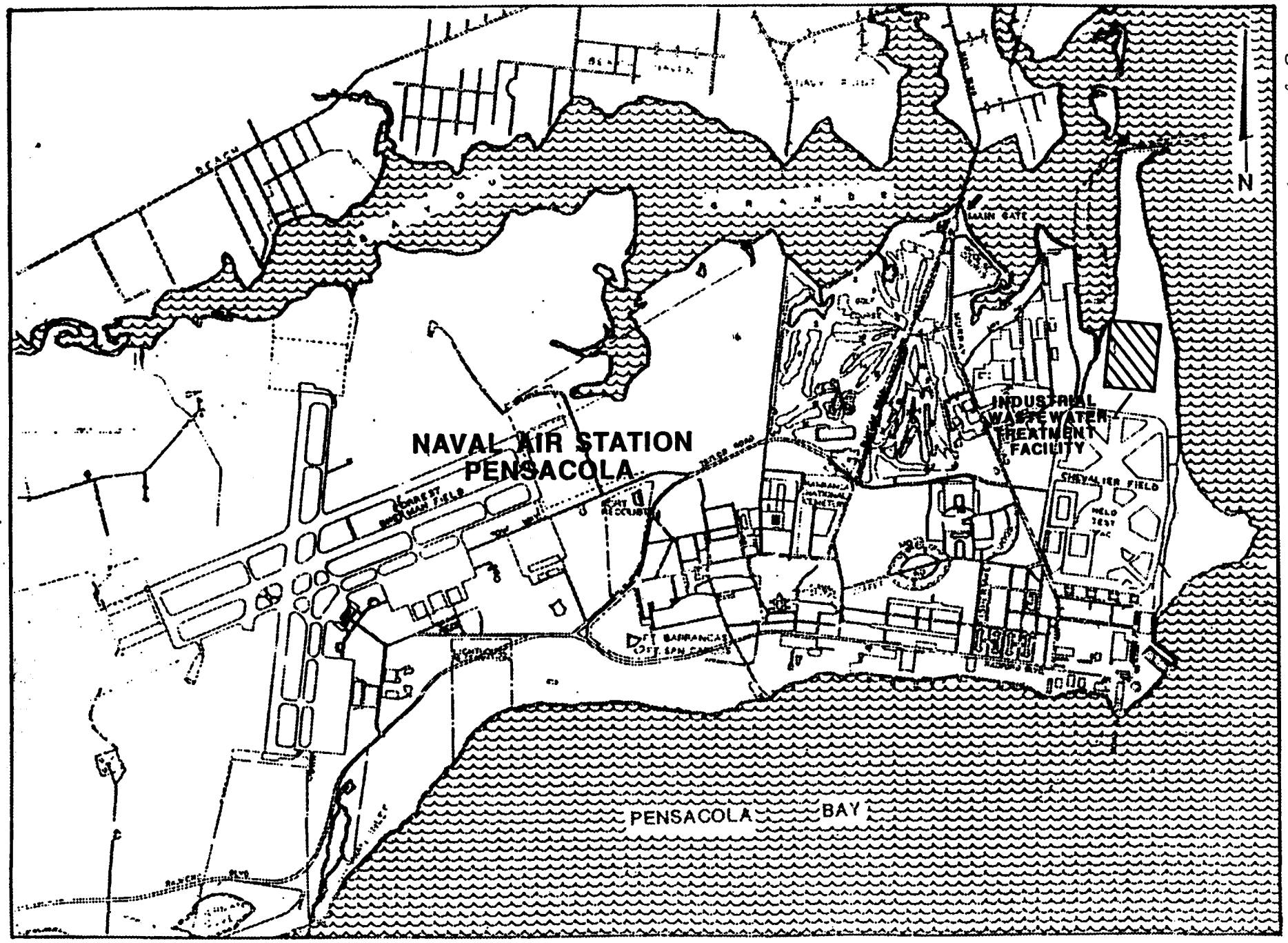

Figure 1. Location of the NAS-Pensacola Industrial Wastewater-Treatment Facility

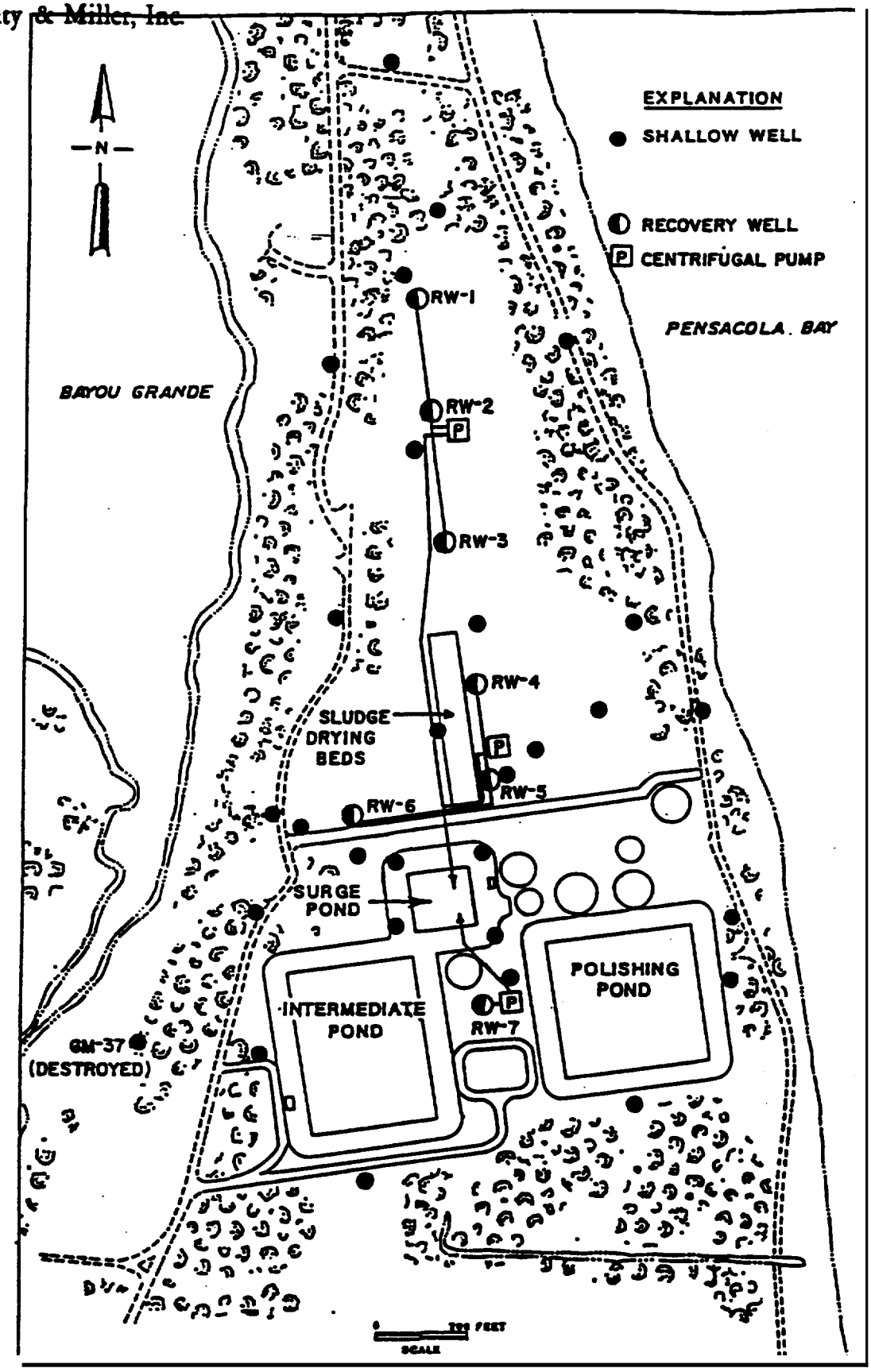

Figure 2. Location of Recovery Wells.

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Wastewater-Treatment Plant, NAS Pensacola, Florida (Phase II)," dated December 5, 1985.

Based on these investigations and as stipulated by Specific Conditions in the Temporary Operating Permit Number HT17-68087, a corrective action plan (Phase 111) was prepared and implemented by G&M and its subsidiary, G&M Consulting Engineers, Inc., to recover and treat contaminated ground water in the surficial aquifer contained in the uppermost 40 ft (feet) of sediments. The lower surficial aquifer was found to be essentially free of contaminants.

Presented in this report is a description of the recovery system, data collected during system start-up, and the results of the water-level and water-quality monitoring program conducted during the first quarter of operation.

ACTION)GRAM

System Description

The recovery and-treatment system is composed of seven recovery wells located within the plume identified in the previous studies and hydraulically downgradient from the surge pond (Figure 2). These wells are operated continuously to "capture" the contaminated ground water (primarily volatile organic compounds and base/neutral extractable compounds) in the upper surficial aquifer. The recovered ground water is pumped to the surge pond at the WWTP for treatment. Six of the wells were installed north of the surge pond and the seventh well is located between the intermediate and polishing ponds.

The spacing of the recovery wells were designed .to create a composite cone of depression in the shallow ground-water system to encompass the contaminant plume and to minimize the potential for inducing salt-water intrusion from the surrounding bay was because water with a high total dissolved solids (TDS) concentration would upset the biological treatment processes .that are used within the WWTP. The recovery-well network also is designed so that certain wells, particularly the northernmost ones, can be shut off as the aquifer in that area is purged of contaminants.

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Recovery-Well Installation

During October and November 1986, the recovery wells were installed to depths ranging from 30 to 39.5 ft utilizing the mud-rotary drilling method. The wells were constructed in a 10-inch-diameter borehole with a 4-inch-diameter Schedule 40 PVC well casing attached by threaded fittings to a 15 ft-long wire-wound PVC screen (0.02 inch slot size). A 6/20 grade gravel pack was emplaced by the tremie method in the annular space between the borehole and well screen/casing to land surface. Construction details of the recovery wells are listed in Table 1. Continuous sediment samples were collected from either the drill cuttings samples or split-spoon samples and described by personnel from G&M to aid in the determination of screen settings; lithologic logs of the wells are presented in Appendix A. Each recovery well was developed by the surge-block and pumping method to increase the efficiency of the well and produce sediment-free water. Following development, the specific capacity (water yield in gallons per minute per foot of drawdown) of each well was determined; these values are presented in Table 1.

Recovery-System Construction

The plumbing and pumps for the recovery system were installed from December 1986 through February 1987. Recovery wells RW-4, RW-5, RW-6, and RW-7 were completed below grade (Figure 3) and are equipped with a sampling access/vacuum

Table 1. Construction Details of Recovery Wells Installed at the WWTP

Well Designation	Land Surface Elevation (ft msl) 1/	Measuring Point Elevation 2/ (ft msl)	Well Depth (ft) 3/	Screened Interval (ft) 3/	Specific Capacity (gpm/ft) 4/
RW-1	2.6	5.09	30	15 - 30	1.25
RW-2	3.4	6.06	37	22 - 37	1.24
RW-3	3.0	5.82	37	22 - 37	1.70
RW-4	5.1	3.62	39	24 - 39	0.70
RW-5	5.4	4.40	39	24 - 39	0.35
RW-6	3.9	2.04	39.5	24.5 - 39.5	0.56
Rw-7	4.9	3.53	39	24 - 39	1.05

1/ feet above mean sea level.

2/ measuring point = bottom edge of the well's access port.

3/ feet below land surface.

4/ gallons per minute per foot of drawdown.

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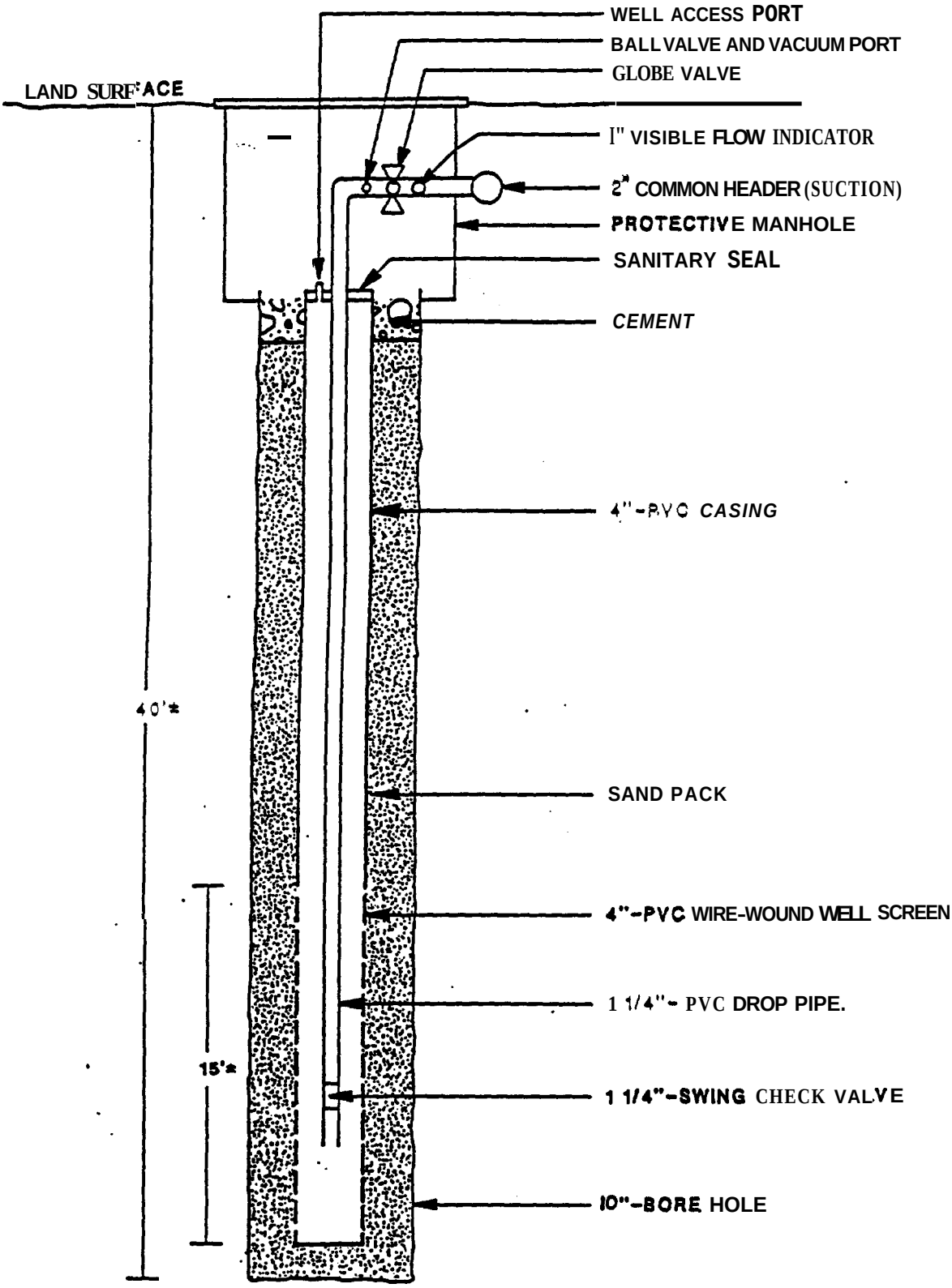

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Figure 3. Schematic Diagram of Typical Below-Grade Recovery Well.

gage port, a well access port for measuring water levels, a flow right-glass, and a globe valve for regulating the flow-rate. Wells RW-1, RW-2, and RW-3 are structurally the same but were completed above-grade (Figure 4) because of periodic flooding in that area.

All of the wells are equipped with 1 1/4-inch-diameter drop pipes connected to a 2-inch-diameter suction line. Recovery wells RW-1, RW-2, and RW-3 are connected to the same 2-inch-diameter common manifold pipe with a 1.5 horsepower (hp) self-priming centrifugal pump (pumphouse A) and recovery wells RW-4, RW-5, and RW-6 are connected to another 2-inch-diameter manifold pipe with a 1.0 hp self-priming centrifugal pump (pumphouse B). The recovered ground water is pumped into a 3-inch-diameter pipe that conveys the water to the surge pond where it is discharged through a series of spray nozzles. Recovery well RW-7 is operated. by a 0.5-hp self-priming centrifugal pump (pumphouse C); the recovered round water also is discharged into the surge pond through another series of spray nozzles. A dual-pump system (primary and back-up) is employed at each pumphouse to assist in the continual operation of the recovery system. Construction details of the recovery-well system are presented in the "as built" engineering drawings, (Drawing No. TO290PN5-E1, sheets 1 through 3) included in the pocket at the back of this report.

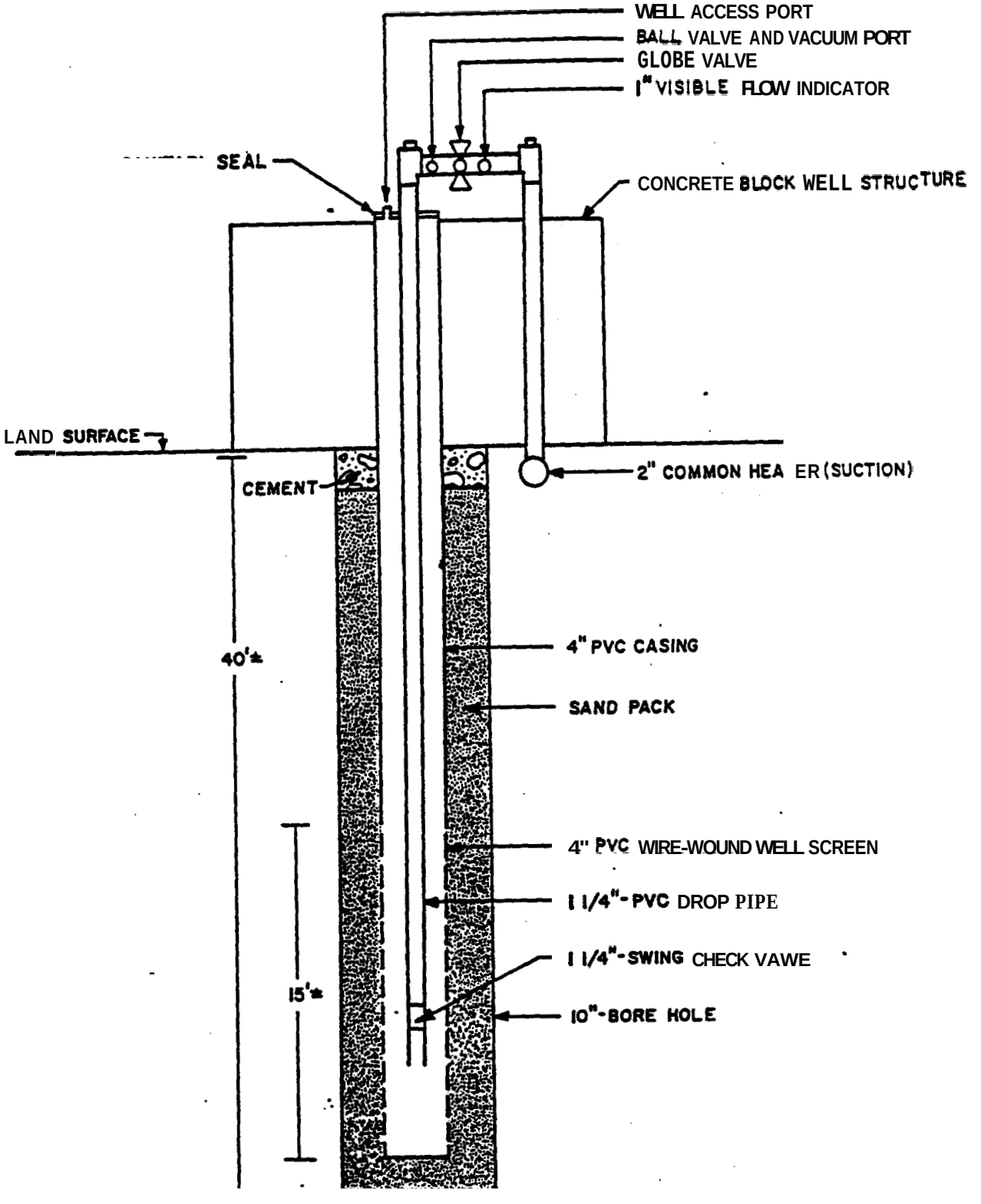

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Figure 4. Schematic Diagram of Typical Above-Grade Recovery Well.

Monitoring Program

The pumping system is monitored weekly to record operational data such as the vacuum and discharge pressures and the total amount of ground water recovered. The suction and discharge pressure gage readings and flow rates from each pumphouse are recorded. If necessary, the flow rates of individual recovery wells can be regulated by adjustment of the globe valves located at each well head. Figure 5 illustrates the progress report form that is completed during each system check. Sample ports are located at the head of each recovery well and at the common discharge pipes for manifolded recovery wells.

A water-level monitoring and water-quality sampling program has been developed to demonstrate the effectiveness of the recovery-well system. Ground-water levels from the monitor and recovery wells are recorded monthly. Organic analyses, pH and specific conductance measurements are performed monthly and quarterly by G&M personnel on the groundwater from selected monitor wells and all recovery wells, in accordance with the schedule outlined in Table' 2. Also, pH and specific conductance measurements of the recooered ground water are recorded weekly by WWTP personnel.

The locations of the monitor wells utilized for water-quality and water-level monitoring are shown in Figure 6. There are three clustered wells, designated as shallow

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GCM CONSULTING ENGINEERS, INC.

PROGRESS REPORT

Project: Ground-Water Recovery/Water Treatment System Page ___ of ___

Location: Wastewater Treatment Plant,NAS-Pensacola, FL

Observer: _____

Date: _____ Hours Worked: From_____ To _____

DESCRIPTION OF ACTIVITIES

*PUMPHOUSE A (RW-1, RW-2, RW-3)

Time _____
Pump 1 or 2 operating
Discharge pressure _____ psi
Vacuum _____ inches Hg
Flowmeter reading _____ gallons
Flow rate _____ gals/min _____ gals/min _____ gals/min

*PUMPHOUSE B (RW-4, RW-5, RW-6)

Time _____
Pump 1 or 2 operating
Discharge pressure _____ psi
Vacuum _____ inches Hg
Flowmeter reading _____ gallons
Flow rate _____ gals/min _____ gals/min _____ gals/min

*PUMPHOUSE C (RW-7)

Time _____
Pump 1 or 2 operating
Discharge pressure _____ psi
Vacuum _____ inches Hg
Flowmeter reading _____ gallons
Flow rate _____ gals/min _____ gals/min _____ gals/min

*NOTES/OBSERVATIONS: _____

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Figure 5. Recovery System Progress Report Form

Table 2. Corrective-Action Monitoring Program

A. Sampling and Analysis for EPA Methods 624 and 625

- Monthly1/:
  Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, and RW-7;
  Combined flow from RW-1, RW-2, RW-3; combined flow from RW-4, RW-5, and RW-6.

- Quarterly:
  Monitor wells DG-3, GM-9, GM-66, GM-67, GM-69, GM-81, and GM-82.

B. Sampling and Analysis for pH and Specific Conductance

- Weekly:
  Combined flow from Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, and RW-6;
  Recovery well RW-7.

- Monthly:
  Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, and RW-7;
  Monitor wells DG-3, GM-9, GM-66, GM-67, GM-69, GM-81, and GM-82.

C. Measurement of Ground-Water Levels

- Monthly:
  All recovery wells and monitor wells.

1/ Monthly for the first quarter and then quarterly thereafter.

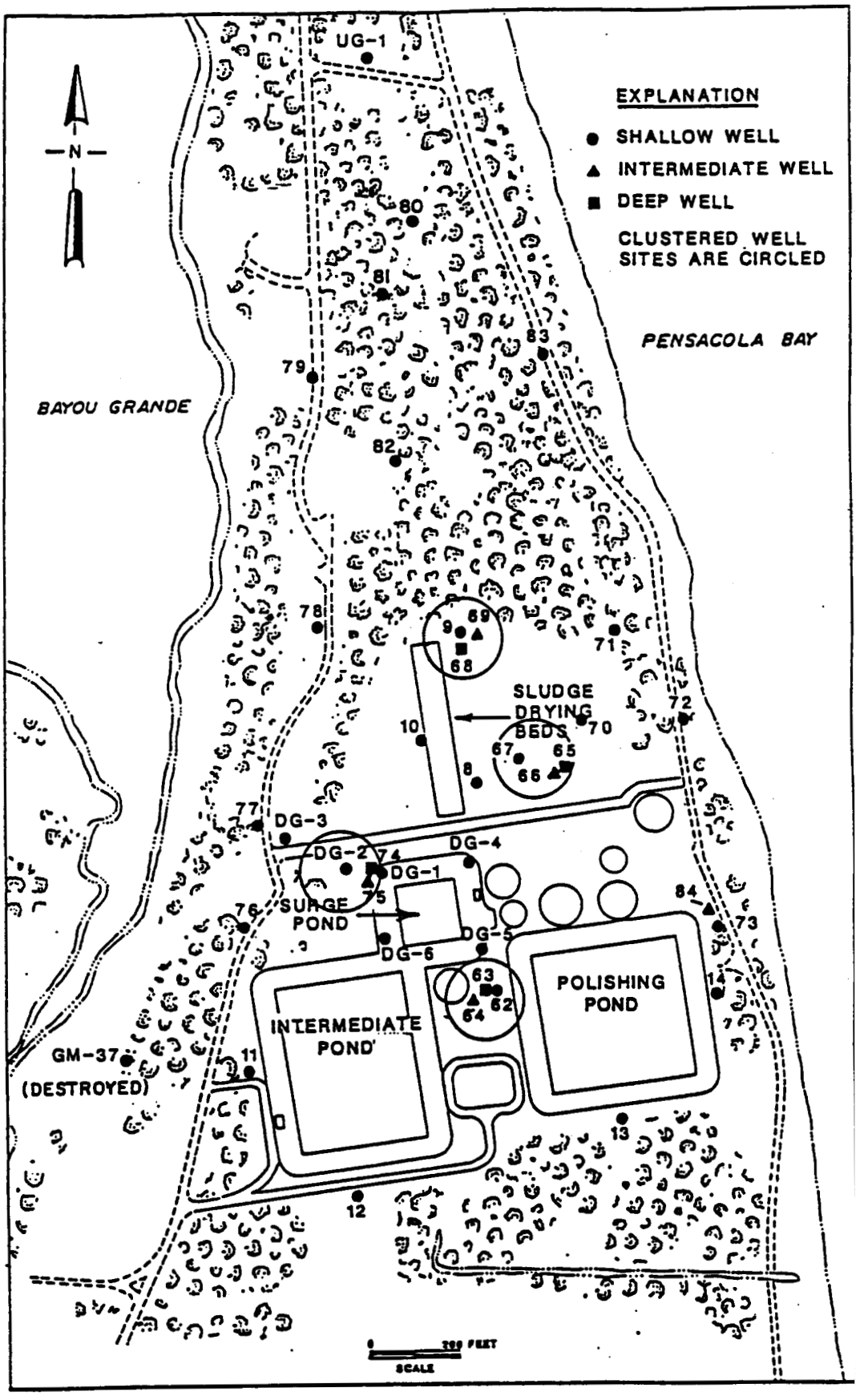

Figure 6. Locations of Monitor Wells at the WWTP Site.

(total depth from 12 to 15 ft), intermediate [about 40 ft), and deep (about 65 ft) at four locations. The well clusters allow groundwater monitoring at two zones above the uppermost confining clay layer, occurring at approximately 40 to 55 ft, below land surface and in a zone immediately underlying the confining layer. Construction details of the monitor wells installed by G&M during Phases I and II of the WWTP investigation are listed in Table 3.

Table 3. Construction Details of the Monitor Wells Installed by Geraghty & Miller, Inc., at NAS-Pensacola

Well Designation	Land Surface Elevation (ft msl) 1/	Top of Well Casing Elevation (ft msl) 1/	Total Depth (ft) 2/	Screened Interval (ft) 2/	Depth to Filter Pack (ft) 2/
			Phase I		
GM-8	5.7	6.30	12.0	9.5 - 12.0	5.5
GM-9	5.0	5.83	12.0	9.3 - 11.8	5.3
GM-10	5.4	6.01	12.0	9.5 - 12.0	5.5
GM-11	5.5	6.18	12.0	9.3 - 11.8	5.5
GM-12	4.8	5.91	12.0	8.8 - 11.3	4.8
GM-13	4.7	5.27	12.0	9.5 - 12.0	5.5
GM-14	3.5	4.74	12.0	8.9 - 11.4.	5.0
			Phase II		
GM-62	5.0	7.48	15.0	12.5 - 15.0	4.0
GM-63	4.7	7.20	65.0	62.5 - 65.0	56.0
GM-64	4.6	6.63	40.0	37.5 - 40.0	35.0
GM-65	4.7	7.23'	65.0	62.5 - 65.0	58.0
GM-66	5.5	8.04	40.0	37.5 - 40.0	31.0
GM-67	4.5	6.93	15.0	12.5 - 15.0	8.0
GM-68	4.9	7.38	65.0	62.5 - 65.0	56.0
GM-69	5.3	8.25	40.0	37.5 - 40.0	32.0
GM-70	5.1	7.55	15.0	12.5 - 15.0	7.0
GM-71	4.6	7.14	12.5	10.0 - 12.5	7.0
GM-72	5.3	7.79	12.5	10.0 - 12.5	7.0
GM-73	10.1	12.57	15.0	12.5 - 15.0	7.0
GM-74	3.9	6.91	65.0	62.5 - 65.0	57.0
GM-75	3.5	6.54	40.0	37.5 - 40.0	33.0
GM-76	7.1	8.12	13.5	11.0 - 13.5	6.0
GM-77	4.2	5.27	13.5	11.0 - 13.5	5.0
GM-78	5.5	7.55	13.0	10.5 - 13.0	8.0
GM-79	2.7	5.24	12.5	10.0 - 12.5	7.0
GM-80	4.2	5.21	13.5	11.0 - 13.5	8.0
GM-81	2.4	4.88	12.5	10.0 - 12.5	8.0
GM-82	2.4	4.91	12.5	10.0 - 12.5	7.0
GM-83	2.9	5.44	12.5	10.0 - 12.5	8.0
GM-84	-	12.04	48.0	43.0 - 48.0	38.0

1/ = feet, referenced to mean sea level
2/ = feet, below land surface

*SYSTEM START-UP

Background

A pilot program was conducted during start-up of the system from February 3 through February 6, 1987. Before the system was activated, static water levels were measured in all monitor wells, and pH and specific conductance were measured in all of the monitor and recovery wells. Operation of the recovery wells commenced on February 4, 1987, and the globe valves at each recovery well were adjusted to allow approximately 10 gallons per minute (gpm) of flow per well. Flow rates, total discharge from the wells, pressure and vacuum gage readings, ground-water levels, and pH and specific conductance values were taken and recorded throughout the pilot test period. The recovery system remained in operation after completion of the pilot program; a compilation of system flow rates, gage readings, etc., through March 23, 1987, is presented in Appendix B.

Water-Quality Data

The first sampling event of the monitoring program. was conducted during the three-day pilot program. Water samples were collected from the recovery. wells and selected monitor wells for analyses of organic compounds by EPA Methods 624 and 625. Samples were collected from the individual recovery wells RW-1 through RW-7 and also from the combined discharge of manifolded wells RW-1, RW-2, and RW-3, and manifolded

wells RW-4, RW-5, and RW-6. A summary of the laboratory analytical results are presented in Table 4 and the laboratory reports in Appendix C. In addition, field measurements of pH and specific conductance were made in all wells at the site during and after the start-up of the system to discern any immediate changes in these water-quality parameters; the results of the measured field parameters are presented in Table 5.

The data basically document existing conditions prior to long-term operation of the system and will be useful in developing trends in the water-quality constituents as the ground-water system is gradually purged of contaminants. The areal distribution of total organic concentrations detected in the monitor and recovery wells during start-up are shown in Figure 7.

Unusually low pH values of 3.1 and 1.6 in recovery well RW-5 and 2.9 and 3.1 in intermediate monitor well GM-66 were measured. Also, the pH of the combined discharge from recovery wells RW-4, RW-5, and RW-6 has recently decreased from 5.1 to 4.1. The reason for the low pH in the ground water from these wells is not certain; however, it is reported that an accidental sulfuric acid spill occurred in this general area about two years ago. Modifications to the pumping system presently are being considered to accommodate the low pH water.

Table 4. Summary of Organic Compounds Detected In the Monitor and Recovery Wells During Start-Up (February 1987) (Concentrations in ug/l)

Compound	DG-3	GM-9	GM-66	GM-67	GM-69	GM-81	GM-82	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7	RW-7 (Dup) 1/	COM 123 2/	COM 456 3/
EPA METHOD 625																	
Acid Extractrbles																	
2,4 - binethylphenol	8	-	-	-	-	-	-	-	-	-	7	12	11	-	-	-	-
Phenol	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	14
Base-Neutral Extrrctrbler																	
1,2 - Dichlorobenzene	-	262	-	114	148	-	-	31	14	-	71	220	63	-	15	-	487
1,3 - Dichlorobenzene	-	109	-	86	192	-	-	13	-	-	22	107	44	-	-	-	326
1,4 - Dichlorobenzene	-	127	-	128	165	-	-	14	-	-	22	109	45	-	-	-	329
Naphthalene	-	17	-	-	-	-	-	-	-	-	24	-	23	-	-	-	43
1,2,4 - Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
EPA METHOD 624																	
Volrtile Organics																	
Chlorobenzene	2	80	34	70	387	-	5	5	6	26	78	149	3	28	24	9	2
1,1 - Dichloroethane	-	403	18	85	238	-	-	-	-	15	862	127	-	23	11	7	6
1,1 - Olchloroethylene	-	11	446	-	-	-	-	-	-	-	29	-	-	-	-	-	-
fetrachlororthylene	-	42	8	-	-	-	-	-	-	-	142	-	-	-	-	-	-
1,1,1 - Trichloroethane	-	356	-	-	-	-	-	-	-	-	481	-	-	-	-	-	-
Trichloroethylene	-	7	15,907	78	8	-	-	-	-	-	38	-	-	-	-	-	-
Toluene'	-	-	15	-	4	-	-	2	-	-	75	-	-	-	-	-	-
Vinyl Chloride	-	-	146	1	17	-	-	-	-	2	30	2	-	-	-	1	-
Trans-1,2 - Dichloroethylene	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	-	-	-	-	36	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl benzene	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-
Total Organics	10	1,414	16,574	574	1,207	-	5	65	20	43	1,890	726	227	51	50	17	1,218

- = Lnr Detected
1/ Duplicate sample from recovery well RU-7.
2/ Combined discharge from recovery wells RW-1, RW-2, and RW-3
3/ Combined discharge from recovery wells RW-4, RW-5, and RW-6.

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TABLE 5. SPECIFIC CONDUCTANCE AND pH MEASUREMENTS FROM MONITOR AND RECOVERY WELLS

WELL ID	SPECIFIC CONDUCTANCE (umhos/cm) 11-11 1986	2-3 1987	2-4 1987	2-5 1987	2-6 1987	2-19 1987	2-27 1987	3-10 1987	3-20 1987	3-30 1987	pH (units) 11-11 1986	2-3 1987	2-4 1987	2-5 1987	2-6 1987	2-19 1987	2-27 1987	3-10 1987	3-20 1987	3-30 1987
MONITOR WELLS																				
			156	133	141								5.4	5.5	5.6					
DG-1			480	117	97								5.6	54	5.4					
DG-2			1053	986	994								5.5	5.8	5.4					
DG-3			432	434	434			480					5.7	5.8	5.8			6.5		
DG-4			546	239	202								5.6	10	6.1					
DG-5			880	696	740								59	13	6.2					
DG-6			1006	1016	776								5.9	12	6.5					
GM-8		1367		1313	1293							6.6		6.4	6.4					
GM-9		1380		1740	1182			960				14		6.2	10			6.5		
GM-10			1937	1932	1921								6.5	6.8	6.7					
GM-11			1217	1238	1197								5.7	6.3	6.1					
GM-12			125	118	114								5.0	2.7	5.7					
GM-13			2950	2310	2330								5.5	10	6.1					
GM-14			1960	1953	1791								6.1	6.9	6.7					
GM-62			871	845	875								5.8	6.3	5.9					
GM-63*			4430	4220	3960								6.3	7.4	6.7					
GM-64**			5330	5240	3840								5.3	8.8	6.6					
GM-65*		1U4		1233	11%								6.1	6.7	6.6					
GM-66**		8880		9600	9330			7820				3B		3.3	2.9			3.1		
GM-67		920		903	887			680				5.7		5.8	5.8			6.6		
GM-68*		727		748	731							6.1		13	6					
GM-69**		3570		3400	3490			4120				6.9		7.0	6.8			7.4		
GM-70		632		637	639							6.5		6.5	6.2					
GM-71			420	427	408								5.5	6.1	58					
GM-72			677	688	676								5.8	6.3	6.3					
GM-73			1044	1090	1150								51	6.4	6.3					
GM-74*			1660	1283	1180								6.8	8S	8.0					
GM-75**			3770	3011	3920								6.2	6.7	7.1					
GM-76			1119	1060	1144								5.0	54	5.5					
77			110	781	817								5.5	5.9	5.6					
78			204	204	199								4.7	5.2	23					
GM-79			435	4%	518								46	5.0	5.4					
GM-80			194	214	226								4.1	4.6	4.5					
GM-81			131	111	109			103					4.2	4.5	4e4			5.3		
GM-82			311	355	370			300					5.1	5.5	5.2			5.9		
GM-83			170	164	162								4.1	4.7	4.5					
GM-84**																				
RECOVERY WELLS																				
RW-1	1670		2250		1600			1295			6.3		5.9		19			5.9		
RW-2	3070		2980		2550			2610			6.6		6.2		5.7			6.3		
RW-3	2040		1366		1990			1320			6.6		5.5		17			6.6		
RW-4	2200	2260			2420			1911			7.3	6.6			6.4			5.7		
RW-5	3740	2640			4490			4680			3.8	59			3.1			16		
RW-6	1510		1710		1700			1540			6.6		5.5		6.1			6.6		
RW-7	1750		1417		1980	1430	210***	1539	1300	1150	72		6.0		6.2	7.1	6.9	5.1	6.7	8.6
COM 123 1/					1980			1550							5.6			6.2		
COM 456 2/					2420			1750							5.1			4.1		
COM 123456 3/						1600	210***		1500	1200						6.0	5.9		5.3	6.5

* = Deep Monitor Well (65 ft)
** = Intermediate Monitor Well (40 - 48 ft)
*** = Possible Meter Malfunction - Heavy Rain Prior to Reading
Blank = Not Measured
1/ = Combined discharge from recovery wells RW-1, RW-2 & RW-3
2/ = Combined discharge from recovery wells RW-4, RW-5 & RW-6
3/ = Combined discharge from recovery wells RW-1, RW-2, RW-3, RW-4, RW-5 & RW-6
NOTE: Recovery system pumping 2-4-87, 1600 hrs.

(TU290PMS.TABLE 5)

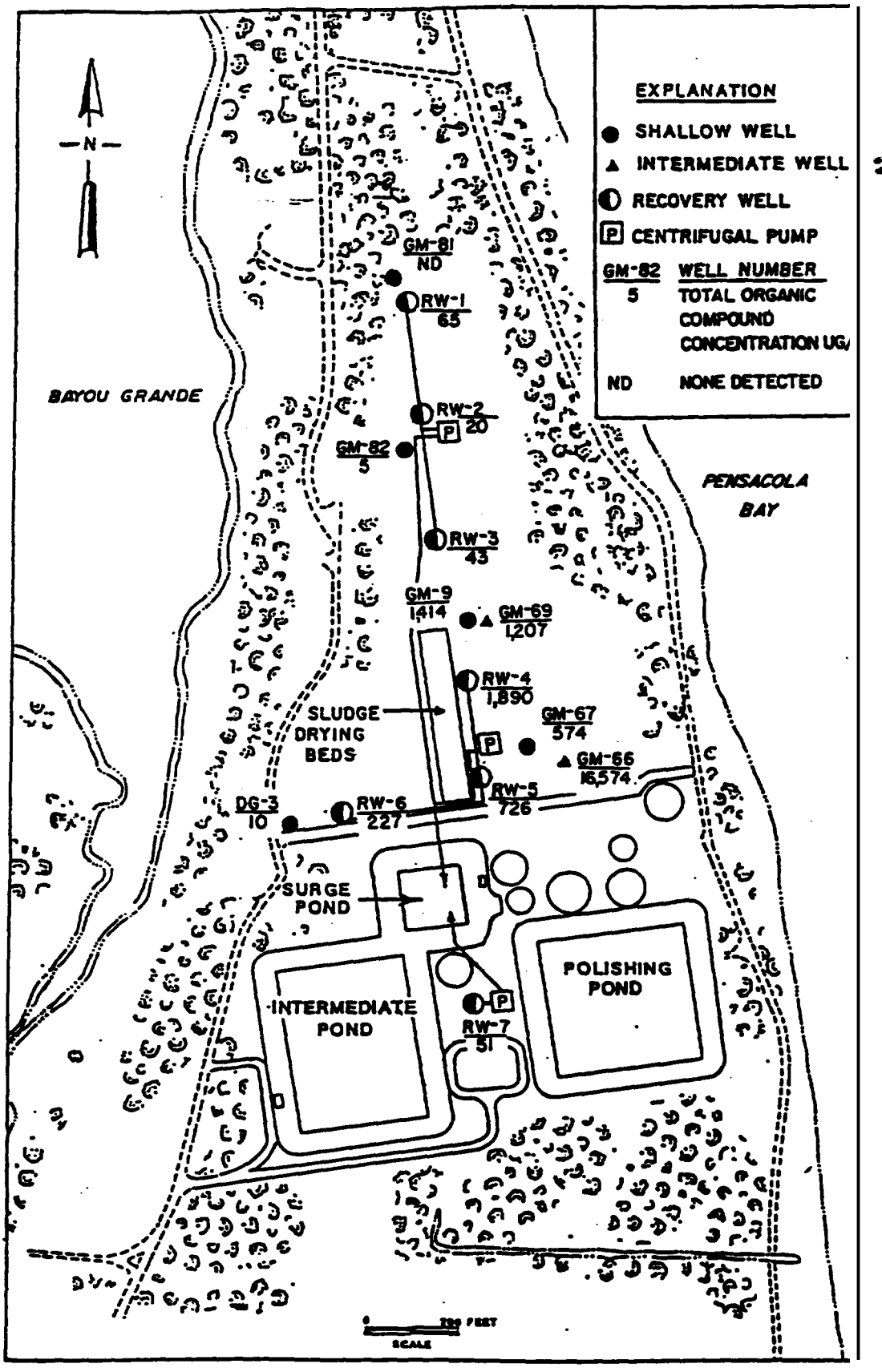

Figure 7. Areal Distribution of Total Organic Compound Concentrations in the Monitor and Recovery Wells.

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Water-Level Data

The configuration of the static (pre-pumping) water-level elevations as determined from measurements in the shallow monitor wells taken on February 3 and 4, 1987, are shown in Figure 8. Water-level elevations ranged from 1.12 to 2.96 ft above mean sea level (msl) (Table 6). As determined in previous investigations, a ground-water divide extends along the axis of the peninsula and the direction of flow is north, northeast, and northwest toward Pensacola Bay and Bayou Grande.

Ground-water levels measured on March 10, 1987 (approximately 30 days of pumping) generally were higher than pre-pumping values, which is sttributed to heavy rains in the area prior to and during this time period, Therefore, the water-level data collected on February 6, 1987 (two days of pumping were used to illustrate the cone of depression surrounding the recovery wells. Figure 9 shows the start of a depression forming in the water-table surface. Water-level drawdown will become more obvious and significant with continued pumping and lesser rainfall. The data show that the cone has developed within the confines of the peninsula and suggest that the system can be operated at the existing withdrawal rates without causing significant salt-water intrusion into the shallow ground-water system. The cone of depression will increase and decrease in size in response to rainfall events; future monitoring of water levels and water

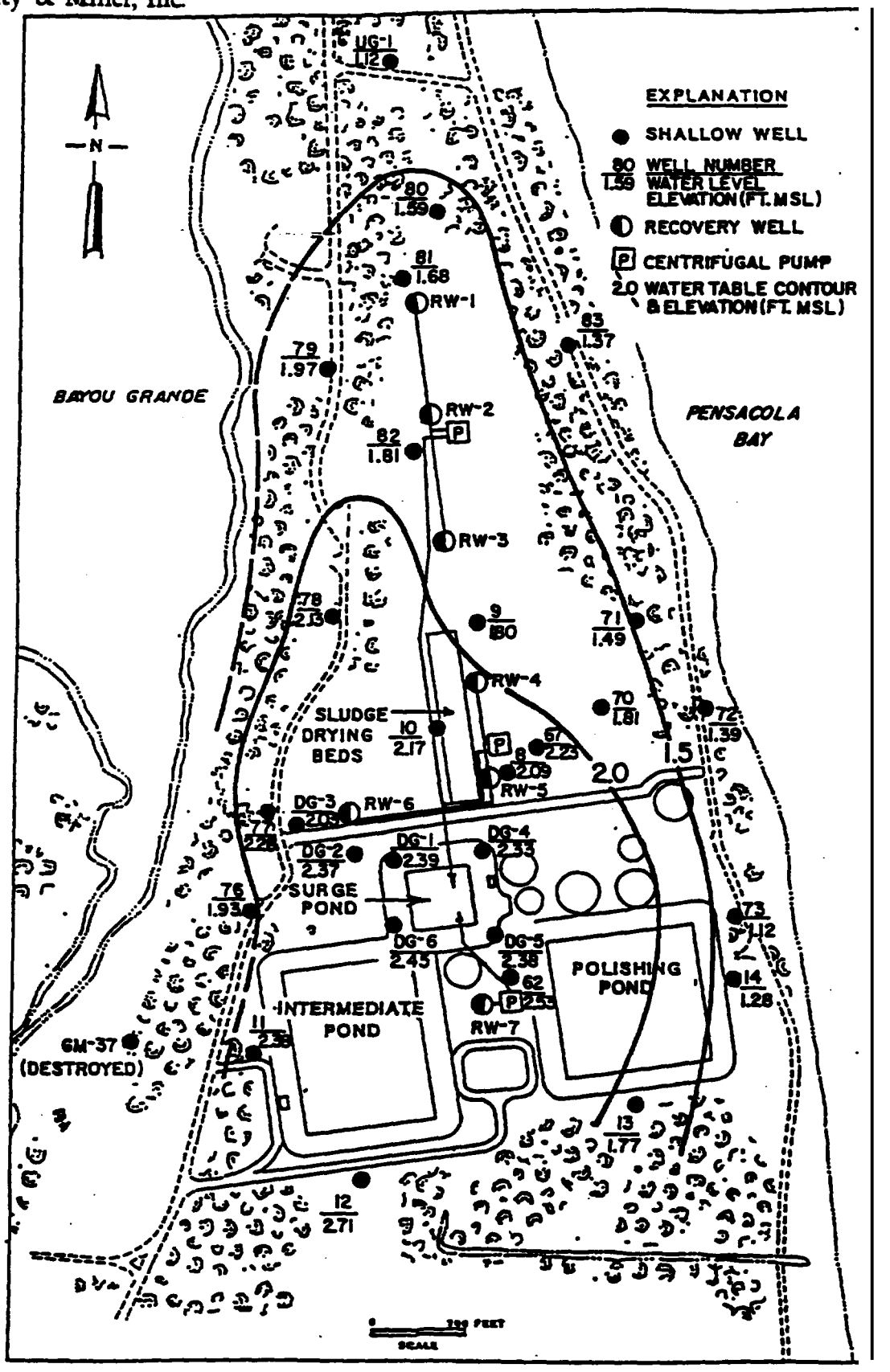

Figure 8. Water-Table Contour Map on February 3 and 4, 1987 (pre-pumping).

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RECOVERY WELLS AT NAS - PENSACOLA WWTP

WELL ID	2-3 1987	2-4 1987	2-5 1987	2-6 1987	3-10 1987
			MONITOR WELLS		
UG-1		1.12	1.09	1.16	1.31
DG-1		2.39	2.37	2.27	2.32
DG-2	—	2.37	2.43	2.22	
DG-3		2.03	1.05	1.99	2.06
DG-4		2.33	3.24	2.19	2.24
DG-5		2.38	2.28	2.20	2.25
DG-6		2.45	2.42	2.32	2.30
GM-8	2.09		1.85	1.81	1.97
GM-9	1.80		1.76	1.58	1.74
GM-10		2.17	2.01	1.96	2.04
GM-11		2.38	2.33	2.33	2.43
GM-12		2.71	2.70	2.69	2.84
GM-13		1.77	1.75	1.82	2.01
61-14		1.28	1.21	1.31	1.36
GM-62		2.53	2.30	2.21	2.33
GM-63*		2.39	2.42	2.48	2.87
GM-64**		2.96	1.61	1.36	1.47
GM-65*	2.84		2.81	2.87	3.26
GM-66**	2.04		1.85	1.80	1.99
GM-67	2.23		2.83	2.07	2.18
GM-68*	2.60		2.73	2.77	3.15
GM-69**	2.13		1.93	1.68	1.90
GM-70	1.81		1.74	1.71	1.80
GM-71		1.49	1.53	1.45	1.42
63-72		1.39	1.31	1.36	1.35
GM-73		1.12	1.00	1.14	1.14
GM-74*		2.41	2.44	2.77	3.08
GM-75**		2.53	2.33	2.21	2.30
GM-76		1.93	1.93	1.88	1.93
GM-77		2.28	2.30	2.23	2.29
GM-78		2.13	2.11	2.03	1.99
GM-79		1.97	1.88	2.20	1.63
61-80		1.59	1.55	1.55	1.64
GM-81		1.68	1.53	1.26	1.40
01-82		1.81	1.60	1.31	0.91
GM-83		1.37	1.49	1.54	1.30
GM-84**					1.16
			RECOVERY WELLS		
RW-1		1.30		-3.81	-5.56
RW-2				-7.21	-11.61
RW-3		1.52		-5.58	-6.68
RW-4	1.91			-11.03	-2.20
RW-5				-10.20	-2.48
RW-6		2.54	-4.72	-42.67	-2.09
RW-7		2.30	-2.13	-11.88	-5.95

* = Deep Monitor Well (65 ft)
** = Intermediate Monitor Well (40 - 48 ft)
Blank = Not measured
NOTE: Recovery system pumping 2-4-87, 1600 hrs.
(T0290PN5. TABLE6)

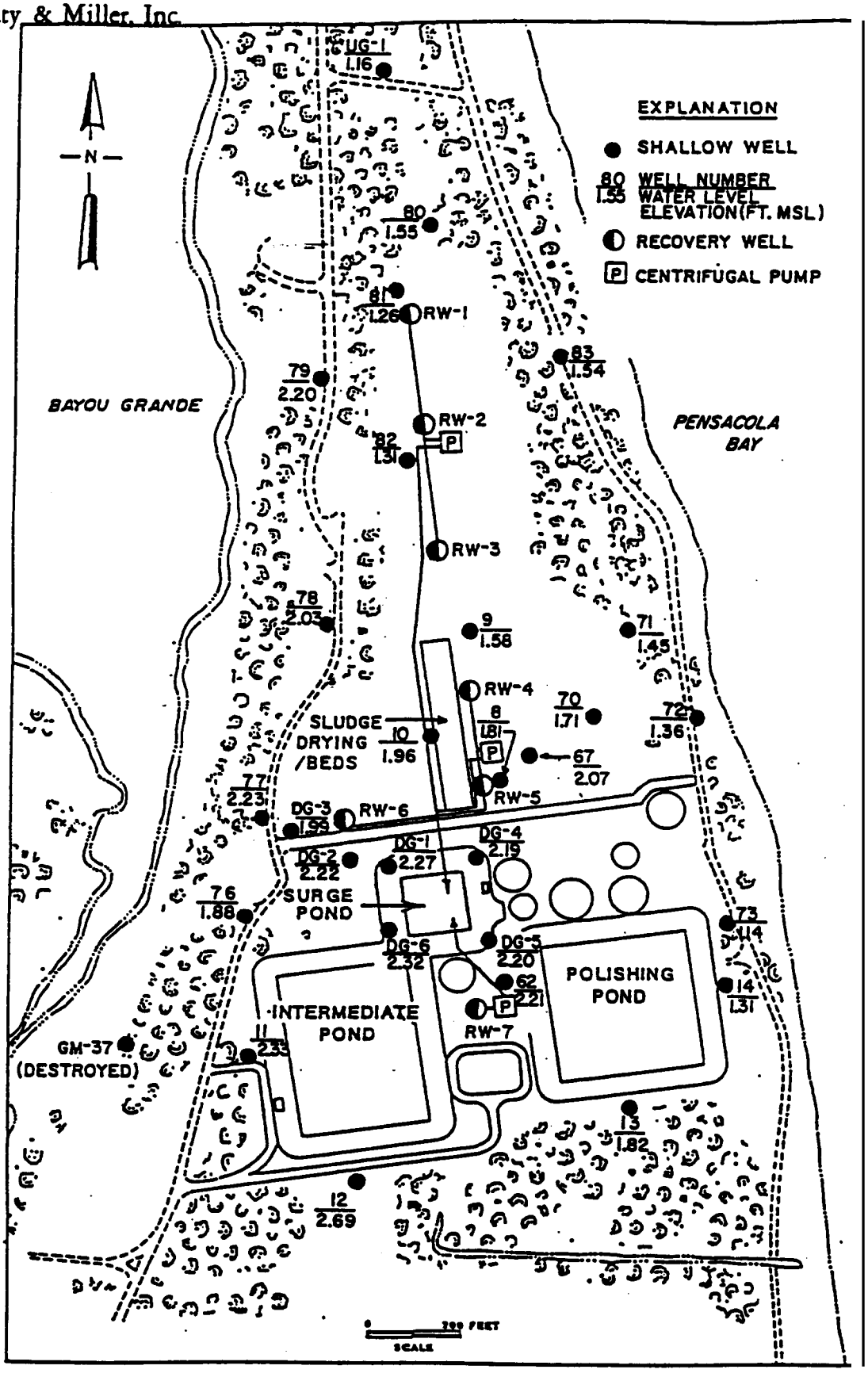

Figure 9. Water-Level Elevations on February 6, 1987 (Recovery-Well System Pumping for Two Days).

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quality will be useful in developing long-term trends associated with system operation.

APPENDIX A

Lithologic Logs of Recovery Wells

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LITHOLOGIC LOG OF WELL RW-1

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, brown and tan; black, silty clay	0 - 8	a
Sand, fine-grained, brown and tan	8 - 21	13
Sand, fine-grained, brown and tan; gray, soft clay	21 - 27	6
Sand, fine-grained, brown and tan; gray, medium-hard clay	27 - 33	6
Sand, fine-medium grained, tan; gray, medium-hard clay	33 - 34	1
Clay, very sandy, medium-hard, gray	34 - 37	3
Clay, very sandy, medium-hard, gray; shell material	37 - 30	1

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LITEOLOGIC LOG OF WELL RW-2

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, gray, brown and tan; black, silty clay	0 - 8	8
Sand, fine-grained, tan and brown.....	8 - 20	12
Sand, fine-medium grained, tan and brown..	20 - 27	7
Sand, fine-medium grained, tan, brown, and gray; gray, soft clay; shell material.....	27 - 28	1
Sand, fine-medium grained, tan; gray, medium-hard clay	28 - 30	2
Sand, fine-medium grained, tan and gray; gray, medium-hard clay.	30 - 35	5
Sand, fine-medium grained, tan; blue/gray, medium-hard clay; shell material.....	35 - 36	1
Sand, fine-medium grained, gray; blue/gray medium-hard clay; shell material.....	36 - 37.5	1.5
Clay, very sandy, medium-hard, blue/gray..	37.5 - 39	1.5
Clay, medium-hard, blue/gray	39 - 42	3

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LITHOLOGIC LOG OF WELL RW-3

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, tan and brown; black, silty clay	0 - 8	8
Sand, fine-grained, tan and brown	8 - 18	10
Sand, fine-medium grained, tan and brown	18 - 26	8
Sand, fine-medium grained, tan and brown; gray, soft clay	26 - 30	4
Sand, fine-medium grained, gray and tan; gray, soft clay	30 - 35	5
Sand, fine-medium grained, gray; gray, soft clay	35 - 36	1
Sand, fine-medium grained, gray; gray, soft-medium clay	36 - 37	1
Sand, fine-medium grained, gray; blue/gray, medium-hard clay; shell material	37 - 38	1
Clay, very sandy, medium-hard, blue/green; shell material	38 - 39	1

LITHOLOGIC LOG OF WELL RW-4

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, tan.....	0 - 9	9
Sand, fine-grained, tan; black, silty clay	9 - 14	5
Sand, fine-grained, tan and gray.....	14 - 26	12
Sand, fine-grained, tan and cream.....	26 - 29	3
Sand, fine-grained, gray, tan and brown...	29 - 39	10
Sand, fine-grained, gray; gray clay.....	39 - 40	1

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LITHOLOGIC LOG OF WELL RW-5

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, brown; black wood fragments.....	0 - 5	5
Sand, fine-grained, tan and cream; black, silty clay; wood fragments.....	5 - 9	4
Sand,, fine-grained, tan and brown..,.....	9 - 39.5	30.5
Sand, silty, fine-grained, gray; gray clay	39.5 - 40	.5

LITHOLOGIC LOG OF WELL RW-6

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, brown.....	0 - 5	5
Sand, fine-grained, brown; black, silty clay.	5 - 11	6
Sand, fine-grained, brown and tan; black/brown, silty clay.....	11 - 21	10
Sand, fine-grained, tan.....	21 - 30	9
Sand, fine-medium grained, tan.....	30 - 39.5	9.5
Sand, fine-medium grained, gray; gray, soft-medium clay.....	39.5 - 40	.5
Clay, hard, blue/gray.....	40 - 42	2

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LITHOLOGIC LOG OF WELL RW-7

Description	Depth (ft)	Thickness (ft)
Sand, fine-grained, brown;;-red, sandy clay	0 - 1	1
Sand, fine-grained, tan and brown.....	1 - 38	37
Sand, fine-grained, tan.....	38 - 39.5	1.5
Sand, fine-medium grained, gray; gray, soft clay.....	39.5 - 40	.5
Sand, fine-medium grained, gray; gray, soft-medium clay.	40 - 41	1

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APPENDIX B

Recovery System Data

Table B-1. Recovery-Well System Data

Recovery Wells Began Pumping at 1600 Hours on February 4, 1987

Date	Pumphouse/Pump No.	Discharge Pressure (lb/in^2) 1/	Suction Vacuum (in Hg) 2/	Flow Rate (gpm) 3/	Flowmeter Reading (gallons)
2/4/87	A/2	36	16	35	3,200
	B/1	12	17.5	30	35,800
	C/1	14	16.5	10	12,820
				-	
* 2/5/87	A/-	-	-	45	43,800
	B/1	11-12	19	26	63,800
	C/1	14	17-18	9.9	27,680
2/6/87	A/2	12-13	20.5	43	-
	A/2	8-10	22-23	-	-
	A/1	6-8	22	32.5	-
	B/2	12-14	19-19.5	25.5	87,600
	B/2	10-12	19	-	-
	B/1	12	19-20	23	-
	C/1	17-18	13	6.2	-
	C/1	14	18	10.1	34,830
	C/1	13-14	17-19	9.7	-
	C/2	14-15	18-19	10.2	-
3/20/87	A/2	3	25	29	194,240
	B/-	-	-	-	91,500
	C/1	14	-	9.5	429,720
3/23/87	B/2	34	14	22	91,800
		Total Gallons Recovered			715,760

1/ lb/in^2 = pounds per square inch

2/ in Hg = inches of mercury

3/ gpm = gallons per minute

* = not measured

APPENDIX C

Water Quality

3250679
(next #3250780)

Laboratory Water Quality Results

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geragh
Northc
3820 N
Tampa,

Pls type
page 1 is where
they are missing
JLM

Lab I.D.: 87-335-1

Suite 200

TANTS ANALYSIS

COVER SHEET FOR RESULTS

RECOVERY WELL RW-1

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-1 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 3:52 pm
Date and Tire Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vandcrstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowles

3250780
(prev. # 3250679) C-2

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 676-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-1
Sample ID: RC-1
Project #: T0290PN5

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

RECOVERY WELL RW-1

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD CENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-1
Sample I.D.: RC-1
Project #: T0290PN5

RECOVERY WELL RW-1

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li pp
3	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
3	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
3	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
3	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
3	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
3	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1
3	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
3	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
0B	1,2-Dichlorobenzene	31	10	43B	N-Nitrosodiphenylamine	BDL	1
1B	1,3-Dichlorobenzene	13	10	44B	Phenanthrene	BDL	1
2B	1,4-Dichlorobenzene	14	10	45B	Pyrene	BDL	1
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

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CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-1
Sample I.D.: RC-1
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	5	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	50	5
1,3-Dichlorobenzene	37	5
1,4-Dichlorobenzene	20	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	2	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
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Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-2

RECOVERY WELL RW-2

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-2 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 3:30 pm
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Dote Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250782

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
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Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-2
Sample I.D.: RC-2
Project #: T0290PN5

RECOVERY WELL RW-2

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chloropheno	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

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11 EAST OLIVE ROAD PENSACOU. FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Iorthdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-2
Sample I.D.: RC-2
Project #: T0290PN5

RECOVERY WELL RW-2

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lir ppb
3	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1C
3	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1C
B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1C
9	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1C
B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
,	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1C
B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1C
B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1C
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1C
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1C
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Bexachlorocyclopentadiene	BDL	1C
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1C
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1C
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1C
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1C
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1C
8B	Chrysene	BDL	10	41B	I-Nitrosodimethylamine	BDL	1C
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1C
0B	1,2-Dichlorobenzene	14	10	43B	N-Nitrosodiphenylamine	BDL	1C
1B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1C
2B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	1C
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1C

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250783

ERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PDL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 070-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3620 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-2
Sample ID: RC-2
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	6	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	27	5
1,3-Dichlorobenzene	12	5
1,4-Dichlorobenzene	8	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PLNSACOLA. FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-3

RECOVERY WELL RW-3

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-3 Project #T0290PN5 Pensacola, Florida
Date and Tire Collected:	February 6, 1987 3:13 pm
Date and Time samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250784

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EASTOLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-3
Sample I.D.: RC-3
Project #: T0290PN5

RECOVERY WELL RW-3

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD CLNSACOLA. FLORIDA 32514
?HONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-3
Sample ID: RC-3
Project #: T0290PN5

RECOVERY WELL RW-3

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li pp
B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	
B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1
B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
.0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
.1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlotobutadiene	BDL	1
.2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
.3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
.4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
.5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1
.6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
.7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
.8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	[illegible]
.9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	[illegible]
20B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	?
21B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	
22B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzenc	BDL	

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250765

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-3
Sample ID.: RC-3
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	26	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	15	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	2	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID: 87-335-4

RECOVERY WELL RW-4
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-4 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 8:02 am
Date and Time Samples Received:	February 6, 1987 6:00 pm'
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250706

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA • FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-4
Sample I.D.: RC-4
Project #: T0290PN5

RECOVERY WELL RW-4

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	7	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	9	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID. #87-355-4
Sample ID.: RC-4
Project #: T0290PN5

RECOVERY WELL RW-4

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	DE Li pp
LB	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	
6B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	-
8B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	
9B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	-
LOB	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
12B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	
15B	Butylbenzyl Phthalate	BDL	10	38B	Iaophorone	BDL	
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	24	
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	
18B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	
20B	1,2-Dichlorobenzene	71	10	43B	N-Nitrosodiphenylamine	BDL	
21B	1,3-Dichlorobenzene	22	10	44B	Phenanthrene	BDL	
22B	1,4-Dichlorobenzene	22	10	45B	Pyrene	BDL	
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 1 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-4
Sample I.D.: RC-4
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	78	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	120	5
1,3-Dichlorobenzene	60	5
1,4-Dichlorobenzene	45	5
1,1-Dichloroethane	862	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	29	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	142	5
Toluene	75	1
1,1,1-Trichloroethane	481	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	38	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	30	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-5

RECOVERY WELL RW-5

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-5 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 7:35 am
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowen

3250788

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EASTOLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-5
Sample I.D.: RC-5
Project #: T0290PN5

RECOVERY WELL RW-5

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	12	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Ceraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. $87-355-5
Sample I.D.: RC-5
Project #: T0290PN5

RECOVERY WELL RW-5

PRIORITY **POLLUTANT ANALYSIS***

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li pp
1B	Acenaphthenc	BDL	10	24B	Diethylphthalate	BDL	1
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	
6B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
8B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
9B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
10B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
12B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	
15B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	
18B	Chrysene	BDL	10	41B	8-Nitrosodimethylamine	BDL	
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	
20B	1,2-Dichlorobenzene	220	10	43B	N-Nitrosodiphenylamine	BDL	
21B	1,3-Dichlorobenzene	107	10	44B	Phenanthrene	BDL	
22B	1,4-Dichlorobenzene	109	10	45B	Pyrcne	BDL	
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	

*EPA Method 625 - Reference: **Method** for Organic **Chemical** Analysis of **Municipal** and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250789

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-5
Sample I.D.: RC-5
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	149	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	515	5
1,3-Dichlorobenzene	197	5
1,4-Dichlorobenzene	185	5
1,1-Dichloroethane	127	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	2	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, NO. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PLNSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-6

RECOVERY WELL RW-6
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-6 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 7:19 am
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987
Laboratory I.D. No.:	81142

Approved By: W. F. Bowers

3250730

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD CENSACOU. FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-6
Sample ID: RC-6
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	3
Chlorobenzene	3	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	38	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	137	5
1,3-Dichlorobenzene	91	5
1,4-Dichlorobenzene	93	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tatrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-6
Sample I.D.: RC-6
Project #: T0290PN5

RECOVERY WELL RW-6
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	11	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis Of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

3250791

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EASTOLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-6
Sample I.D.: RC-6
Project #: T0290PN5

RECOVERY WELL RW-6
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	DLp
1B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	
[illegible]	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
8B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	
9B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	
10B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
12B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	
15B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	23	
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	
18B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	
20B	1,2-Dichlorobenzene	63	10	43B	N-Nitrosodiphenylamine	BDL	
21B	1,3-Dichlorobenzene	44	10	44B	Phenanthrene	BDL	
22B	1,4-Dichlorobenzene	45	10	45B	Pyrene	BDL	
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-7

RECOVERY WELL RW-7
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RC-7 Project #T0290PN5 Pensacola, Florida
Date and Tire Collected:	February 6, 1987 8:19 am
Date and Tire Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

3250792

Approved By: W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-7
Sample I.D.: RC-7
Project #: T0290PN5

RECOVERY WELL RW-7
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Gerrghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-7
Sample I.D.: RC-7
Project #: T0290PN5

RECOVERY WELL RW-7

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	DE Li pp
1B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
6B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
8B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
9B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
10B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
12B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
15B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
18B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
20B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	1
21B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1
22B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	1
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250703

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY. INC.
11 EAST OLIVE ROAD PENSACOLA. FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-7
Sample ID: RC-7
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	20	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	23	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/1
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
blorthdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

L8b I.D.: 87-335-8

RECOVERY WELL RW-7 (Duplicate)
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	RCP-7 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 4:21 pm
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250704

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL030 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLWE ROAD PENSACOLA, FLORIDA 32510
PHONE (904) 070-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-8
Sample ID: RCP-7
Project #: T0290PN5

RECOVERY WELL RW-7 (Duplicate)
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-8
Sample I.D.: RCP-7
Project #: T0290PN5

RECOVERY WELL RW-7 (Duplicate)

PRIORITY **POLLUTANT ANALYSIS***

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li pp
.B	Acenaphthena	BDL	10	24B	Diethylphthalate	BDL	1
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
6B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
8B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	
9B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
10B	Bis(2-chloroethoxy)methane	BDL	10	33B	Eexachlorobenzenc	BDL	1
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
12B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Bexachloroethanc	BDL	1
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
15B	Butylbenzyl Phthalate	BDL	10	38B	Iaophorone	BDL	1
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
18B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
10B	1,2-Dichlorobenzene	15	10	43B	N-Nitrosodiphenylamine	BDL	1
21B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1
22B	1,4-Dichlorobenzene	BDL	10	45B	Pyrcne	BDL	1
13B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-8
Sample ID: RC-7 Duplicate
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	24	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	29	5
1,3-Dichlorobenzene	12	5
1,4-Dichlorobenzene	10	5
1,1-Dichloroethane	11	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, lac.
Northdale Executive Center
3820 Horthdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-9

TRIP BLANK
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	Trip Blank Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250796

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY. INC.
11 EAST OLIVE ROAD PENSACOLA. FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

d

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-9
Sample I.D.: Trip Blank
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Brornodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	BDL	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-10

RECOVERY WELLS RW-1, RW-2, RW-3
(Combined Discharge)

PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	Comp. 1, 2, 3 Project #T0290PN5 Pensacola, Florida
Date and Time Collected:	February 6, 1987 3:40 pm
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vandetstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250797

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Borthdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-10
Sample I.D.: Comp. 1,2,3
Project.#: T0290PN5

RECOVERY WELLS RW-1, RW-2, RW-3
(Combined Discharge)
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-10
Sample I.D.: Comp. 1, 2, 3
Project #: T0290PN5

RECOVERY WELLS RW-1, RW-2, RW-3
(Combined Discharge)
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li: pp
B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
0B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	1
1B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1
2B	1,4-Dichlorobenzene	BDL	10	45B	Pyrcne	BDL	1
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250798

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40190

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-10
Sample ID: Comp. 1,2 & 3
Project #: T02900PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	9	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	7	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	1	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 LAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Hiller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-335-11

RECOVERY WELLS RW-4, RW-5, RW-6
(Combined Discharge)
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Jim Connors, Jerry Redman
Sample Site:	Comp. 4, 5, 6 Project #T0290PN5 Pensacola, Florida
Date aad Tire collected:	February 6, 1987 7:54 am
Date and Time Samples Received:	February 6, 1987 6:00 pm
Analysts:	Johnathon Price, Beverly Vanderstar
Date Analyses Started:	February 13, 1987
Date Reported:	March 23, 1987

Laboratory ID. No.: 81142

Approved By: Ed F. Bowers

3250709

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL030 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-335-11
Sample I.D.: Comp. 4,5,6
Project #: T0290PN5

RECOVERY WELLS RW-4, RW-5, RW-6
(Combined Discharge)
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
SA	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	14	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-355-11
Sample I.D.: Comp. 4, 5, 6
Project #: T0290PN5

RECOVERY WELLS RW-4, RW-5, RW-6
(Combined Discharge)
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lir ppb
B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1C
B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1C
B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1C
B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1C
B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	
B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	
B	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1C
B	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1C
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1C
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1C
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1C
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1C
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1C
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1C
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	43	1C
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1C
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1C
9B	Dibenzo(a,h)anthracene	BDL	25	428	N-Nitrosodi-n-propylamine	BDL	1C
!0B	1,2-Dichlorobenzene	407	10	43B	N-Nitrosodiphenylamine	BDL	1C
:1B	1,3-Dichlorobenzene	326	10	44B	Phenanthrene	BDL	1C
:2B	1,4-Dichlorobenzene	329	10	45B	Pyrene	BDL	1C
:3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	11	1C

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

C-42

3250800

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40190

Pioneer
PL LABORATORY, INC.
11 EAST OUVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-335-11
Sample ID: Comp. 4,5 & 6
Project #: T02900PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	2	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	829	5
1,3-Dichlorobenzene	512	5
1,4-Dichlorobenzene	410	5
1,1-Dichloroethane	6	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-1

MONITOR WELL DG-3
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	DG-3 Project #T0290PN5
Date and Time Collected:	February 4, 1987 9:45 am
Date and Time Samples Received:	February 5, 1987 4:15 pa
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses Started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250501

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OUVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID. 87-316-1
Sample ID.: DG-3
Project #: T0290PN5

MONITOR WELL DG-3
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	8	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion.
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-316-1
Sample I.D.: DG-3
Project #: T0290PN5

MONITOR WELL DG-3
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lim ppb
3	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	10
3	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	10
3	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	10
3	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	10
3	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	10
3	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	10
3	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	10
	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1[illegible]
	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	[illegible]
)B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzcne	BDL	1[illegible]
.B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	10
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	10
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	10
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	10
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	10
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	10
B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	10
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	10
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	10
1B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	10
B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	10
B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	10
B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	10

***EPA Method 625 - Reference:** **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.**

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250802

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL030 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOU. FLORIDA 32514
PHONE (904) 474-1001

RECEIVED
AUG 5 1987
Geraghty and Miller

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-1
Sample I.D.: DG-3
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	2	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-2

MONITOR WELL GM-9
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	GM-9 Project #T0290PN5
Date and Time Collected:	February 3, 1987 6:30 pm
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

325080.3

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO? Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-316-2
Sample I.D.: GM-9
Project #: T0290PN5

MONITOR WELL GM-9

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
SA	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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TO: Geraghty & Miller, Inc.
Northdale Executive center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-316-2
Sample I.D.: GM-9
Project #: T0290PN5

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lir ppb
B	Accnaphthene	BDL	10	24B	Diethylphthalate	BDL	1(
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1(
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1(
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1(
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1(
6B	Benzo(a)pyrens	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	1(
B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1(
9	Benzo(ghi)perylene	BDL	10	31B	Fluoranthena	BDL	1
	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1(
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1(
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1(
.5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1(
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	17	1(
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene.	BDL	1(
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1(
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1(
0B	1,2-Dichlorobenzene	262	10	43B	N-Nitrosodiphenylamine	BDL	1(
1B	1,3-Dichlorobenzene	109	10	44B	Phenanthrene	BDL	1(
2B	1,4-Dichlorobenzene	127	10	4SB	Pyrene	BDL	1(
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1(

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

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Pioneer LABORATORY, INC.
11 EASTOLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG j 1987

Geraghty and Mil

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-2
Sample I.D.: GM-9
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	80	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	525	5
1,3-Dichlorobenzene	210	5
1,4-Dichlorobenzene	150	5
1,1-Dichloroethane	403	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	11	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	42	5
Toluene	BDL	1
1,1,1-Trichloroethane	356	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	7	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOU. FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, fnc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-3

MONITOR WELL GM-66
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	GM-66 Project #T0290PN5
Date and Time Collected:	February 3, 1987 3:30 pm
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250605

CERTIFICATION NU —— FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-316-3
Sample ID: GM-66
Project #: T0290PN5

MONITOR WELL GM-66
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
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PHONE (904) 474-1001

TO: Geraghty & Miller, Inc,
Northdale Executive Center
3820 Borthdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-316-3
Sample I-Dot GM-66
Project #: T0290PN5

MONITOR WELL GM-66

PRIORITY **POLLUTANT ANALYSIS***

BASE NEUTRAL EXTRACTABLES

	Reported in ppb	Detection Limit ppb			Reported in ppb	Det. Limi ppb
Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	10
Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	10
Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	10
Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	10
Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	10
Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	10
384-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	10
Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	10
Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	[illegible]
B Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	[illegible]
B Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
B Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	10
B Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	10
B 4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	10
B Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	10
B 2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	10
B 4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	10
B Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	10
B Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	10
B 1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	10
B 1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	10
B 1,4-Dichlorobenzene	BDL	10	45B	Pyrtne	BDL	10
B 3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	10

*EPA Method 625 - Reference: **Method** for **Organic Chemical Analysis** of **Municipal** and **Industrial Wastewater**, **EPA-600/4-82-057**, **July** 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250806

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG5 1987

Geraghty and M

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-3
Sample I.D.: GM-66
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodiehloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	34	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	18	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	446	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	a	5
Toluene	15	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	15907	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	146	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-4

MONITOR WELL GM-67
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	OM-67 Project #T0290PN5
Date and Time Collected:	February 3, 1987 3:35 pm
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250807

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40190

Pioneer
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TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-316-4
Sample ID: GM-67
Project #: T0290PN5

MONITOR WELL GM-67

PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
SA	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of .Municipaland Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-316-4
Sample I.D.: GM-67
Project #: T0290PN5

MONITOR WELL GM-67

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lim ppb
	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	10
	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	10
	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	10
	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	10
	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	10
	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	10
	384-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	10
	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	10
	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	[illegible]
B	Bis(2-chloroethoxy)methane	BDL	10	33B	Eexachlorobenzene	BDL	[illegible]
B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	10
B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	10
B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	10
B	Butylbenzyl Phthalate	BDL	10	38B	Isophoroae	BDL	10
B	2-Chloronaphthalcne	BDL	10	39B	Naphthalene	BDL	10
B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	10
B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	10
B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	10
B	1,2-Dichlorobenzene	114	10	43B	N-Nitrosodiphenylamine	BDL	10
B	1,3-Dichlorobenzene	86	10	44B	Phenanthrene	BDL	10
B	1,4-Dichlorobenzene	128	10	45B	Pyrene	BDL	10
B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	10

*EPA Method 625 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.**

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250808

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
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AUG 5 1987

Geraghty and M

Tot Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-4
Sample I.D.: GM-67
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	70	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	201	5
1,3-Dichlorobenzene	156	5
1,4-Dichlorobenzene	150	5
1,1-Dichloroethane	85	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	12	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Ttichloroethene	78	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	1	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

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Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-5

MONITOR WELL GM-69
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	GM-69 Project #T0290PN5
Date and Time Collected:	February 3, 1987 6:12 pm
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowen

3250609

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO.: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 87-316-5
Sample I.D.: GM-69
Project #: T0290PN5

MONITOR WELL GM-69
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
SA	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-0578 July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
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11 EAST OLIVE ROAD CLNSACOU. FLORIDA 32514
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TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. #87-316-5
Sample I.D.: GM-69
Project #: T0290PN5

MONITOR WELL GM-69
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lin ppb
3	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1C
3	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1C
3	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1C
3	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1C
3	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1C
3	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	1C
3	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1C
	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1C
3	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	
0B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1C
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1C
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	li
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1C
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1C
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1C
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1C
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1C
0B	1,2-Dichlorobenzene	148	10	438	N-Nitrosodiphenylamine	BDL	1C
1B	1,3-Dichlorobenzene	192	10	44B	Phenanthrene	BDL	1C
2B	1,4-Dichlorobenzene	165	10	45B	Pyrene	BDL	1C
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1C

*EPA Method 625 - Reference: **Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.**

Notes: ppb - parts per billion
BDL - Below Detection Limit

3250810

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOU. FLORIDA 32510
PHONE (904) 470-1001

AUG 5 1987

Geraghty and ...

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-5
Sample I.D.: GM-69
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	9	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	387	5
Chloroethane	36	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	255	5
1,3-Dichlorobenzene	225	5
1,4-Dichlorobenzene	230	5
1,1-Dichloroethane	238	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	3	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	4	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	8	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	17	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-6

MONITOR WELL GM-81
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	GM-81 Project #T0290PN5
Date and Tire Collected:	February 4, 1987 7:53 am
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses Started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowers

3250841

CERTIFICATION NUMBERS: FL LAB ID = 81142 • EPA = FL094 • FDER = EL020 • AL LAB ID = 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAQ PENSACOLA, FLORIDA 32510
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID. 87-316-6
Sample ID.: GM-81
Project #: T0290PN5

MONITOR WELL GM-81
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	50
SA	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
8A	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID. #87-316-6
Sample I.D.: GM-81
Project #: T0290PN5

MONITOR WELL GM-81
PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	Det Lir ppb
3	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1(
3	Acanaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1(
3	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1(
3	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1(
3	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1(
3	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	1(
3	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenylhydrazine	BDL	1(
3	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1(
3	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1(
B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
1B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	
2B	Bis(2-chloroisopropyl)ether	BDL	10	35B	Hexachlorocyclopentadiene	BDL	1
3B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	
4B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1(
5B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1'
6B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
7B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1'
8B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
9B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
0B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	1
1B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1
2B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	1
3B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

CERTIFICATION NUMBERS FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

Geraghty and M..

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-6
Sample I.D.: GM-81
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	1
Chlorobenzene	BDL	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D.: 87-316-7

MONITOR WELL GM-82
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	GM-82 Project #T0290PN5
Date and Time Collected:	February 4, 1987 8:21 am
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Bunt, Susan Rembert, Beverly Vanderstar
Date Analyses Started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved By: W. F. Bowen

3250813

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
LABORATORY, INC.
11 EASTOLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Bouleyard, Suite 200
Tampa, FL 33624

Lab ID. 87-316-7
Sample ID.: GM-82
Project #: T0290PN5

MONITOR WELL GM-82
PRIORITY POLLUTANT ANALYSIS*

ACID EXTRACTABLES

		Reported in ppb	Detection Limit (ppb)
1A	2-Chlorophenol	BDL	15
2A	2,4-Dichlorophenol	BDL	10
3A	2,4-Dimethylphenol	BDL	5
4A	4,6-Dinitro-o-Cresol	BDL	SO
5A	2,4-Dinitrophenol	BDL	30
6A	2-Nitrophenol	BDL	10
7A	4-Nitrophenol	BDL	20
OA	p-Chloro-m-Cresol	BDL	25
9A	Pentachlorophenol	BDL	30
10A	Phenol	BDL	5
11A	2,4,6-Trichlorophenol	BDL	20

*EPA Method 604 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600 4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40130

Pioneer
PL LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

AUG 5 1987

Geraghty and M.

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab I.D.: 87-316-7
Sample ID: GM-82
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3.
Carbon Tetrachloride	BDL	1
Chlorobenzene	5	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

3250814

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab I.D. 087-316-7
Sample I.D.: GM-82
Project #: T0290PN5

MONITOR WELL GM-82

PRIORITY POLLUTANT ANALYSIS*

BASE NEUTRAL EXTRACTABLES

		Reported in ppb	Detection Limit ppb			Reported in ppb	De Li pp
1B	Acenaphthene	BDL	10	24B	Diethylphthalate	BDL	1
2B	Acenaphthylene	BDL	10	25B	Dimethylphthalate	BDL	1
3B	Anthracene	BDL	10	26B	Di-n-Butyl Phthalate	BDL	1
4B	Benzidine	BDL	10	27B	2,4-Dinitrotoluene	BDL	1
5B	Benzo(a)anthracene	BDL	10	28B	2,6-Dintrotoluene	BDL	1
6B	Benzo(a)pyrene	BDL	10	29B	Di-n-Octyl-Phthalate	BDL	1
7B	3,4-Benzofluoranthene	BDL	10	30B	1,2-Diphenyihydrazine	BDL	1
	Benzo(ghi)perylene	BDL	10	31B	Fluoranthene	BDL	1
	Benzo(k)fluoranthane	BDL	10	32B	Fluorene	BDL	1
10B	Bis(2-chloroethoxy)methane	BDL	10	33B	Hexachlorobenzene	BDL	1
11B	Bis(2-chloroethyl)ether	BDL	10	34B	Hexachlorobutadiene	BDL	1
12B	Bis(2-chloroisopropyl)ether	BDL	10	358	Hexachlorocyclopentadiene	BDL	1
13B	Bis(2-ethylhexyl)phthalate	BDL	10	36B	Hexachloroethane	BDL	1
14B	4-Bromophenyl Phenyl Ether	BDL	10	37B	Indeno(1,2,3-cd)pyrene	BDL	1
15B	Butylbenzyl Phthalate	BDL	10	38B	Isophorone	BDL	1
16B	2-Chloronaphthalene	BDL	10	39B	Naphthalene	BDL	1
17B	4-Chlorophenyl Phenyl Other	BDL	10	40B	Nitrobenzene	BDL	1
18B	Chrysene	BDL	10	41B	N-Nitrosodimethylamine	BDL	1
19B	Dibenzo(a,h)anthracene	BDL	25	42B	N-Nitrosodi-n-propylamine	BDL	1
20B	1,2-Dichlorobenzene	BDL	10	43B	N-Nitrosodiphenylamine	BDL	1
21B	1,3-Dichlorobenzene	BDL	10	44B	Phenanthrene	BDL	1
22B	1,4-Dichlorobenzene	BDL	10	45B	Pyrene	BDL	1
23B	3,3-Dichlorobenzidine	BDL	10	46B	1,2,4-Trichlorobenzene	BDL	1

*EPA Method 625 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Notes: ppb - parts per billion
BDL - Below Detection Limit

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PL LABORATORY, INC.
11 LASTOUVE ROAD PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

TO: Gcraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID: 87-316-8

TRIP BLANK
PRIORITY POLLUTANTS ANALYSIS

COVER SHEET FOR RESULTS

Collector:	Bob Schmidt, Lesley Touchton, Jim Connors
Sample Site:	Trip Blank Project #T0290PN5
Date and Tire Collected:	
Date and Time Samples Received:	February 5, 1987 4:15 pm
Analysts:	Bruce Hunt, Susan Rembert, Beverly Vanderstar
Date Analyses Started:	February 10, 1987
Date Reported:	March 20, 1987

Laboratory I.D. No.: 81142

Approved Byt W. F. Bowers

3250815

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150

Pioneer
PLI LABORATORY. INC.
11 EAST OLIVE ROAD PENSACOU. FLORIDA 32514
PHONE (904) 474-1001

AUG 5 '57

Geraghty and .

To: Geraghty & Miller, Inc.
3820 Northdale Blvd. Suite 200
Tampa, Florida 33624

Lab ID.: 87-316-8
Sample I.D.: Trip Blank
Project #: T0290PN5

VOLATILE ORGANICS
METHOD 624

	Reported in ppb	Detection Limit (ppb)
Benzene	BDL	1
Bromodichloromethane	BDL	5
Bromoform	BDL	5
Bromomethane	BDL	3
Carbon Tetrachloride	BDL	I
Chlorobenzene	BDL	5
Chloroethane	BDL	5
2-Chloroethylvinyl Ether	BDL	5
Chloroform	BDL	5
Chloromethane	BDL	5
Dibromochloromethane	BDL	5
1,2-Dichlorobenzene	BDL	5
1,3-Dichlorobenzene	BDL	5
1,4-Dichlorobenzene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethane	BDL	3
1,1-Dichloroethene	BDL	5
trans-1,2-Dichloroethene	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Ethyl Benzene	BDL	1
Methylene Chloride	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	1
1,1,1-Trichloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Trichloroethene	BDL	5
Trichlorofluoromethane	BDL	5
Vinyl Chloride	BDL	1

Method Reference: Federal Register, 40 CFR, Part 136, Vol. 49, No. 209, Friday, October 26, 1984.

Notes: ppb - parts per billion, ug/l
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150

ELLER, INC.
Ground-Water Consultants

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

Project/Number: T0290PN5

Shipping Container ID: _____

Sampler(s): Jim Connors, Jerry Redman

Location: Pensacola

Laboratory: Pioneer

SAMPLE CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	40 ml vials EPA 624	(1) 1 lt. Amber bottle EPA 625											Total	Remarks
RC-1	2-6-87	2	1											3	
RC-2	"	2	1											3	
RC-3	"	2	1											3	
RC-4	"	2	1											3	
RC-5	"	2	1											3	
RC-6	"	2	1											3	
RC-7	"	2	1											3	
Rep-7	"	2	1											3	
Trip Blank	"	2	—											2	
Comp 1,2,3	"	2	1											3	
Comp 4,5,6	"	2	1											3	

Total No. of Containers: 32 ~~26~~

Relinquished by: [signature] Organization: Daughtry + Mills
Date: 2-6-87 Time: 1626
Received by: Jerry A. Redman Organization: Pioneer Lab
Date: 2-6-87 Time: _____

Relinquished by: _____ Organization: _____
Date: _____ Time: _____
Received by: _____ Organization: _____
Date: _____ Time: _____

Relinquished by: _____ Organization: _____
Date: _____ Time: _____
Received by: _____ Organization: _____
Date: _____ Time: _____

Delivery Method: _____ (attach shipping bill, if any)

(Use extra sheets, if necess.

1/8

C-74

GERAGHTY & MILLER, INC.
Ground Water Consultants

CHAIN-OF-CUSTODY RECORD

Page ___

Location: Pierce CA

Laboratory: Pioneer Lab

Project/Number T029DPN5

Shipping Container ID: _____

Sampler(s): Kevin Loughton
Jim Cannon

SAMPLE CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	40ml-vials EPA 624	1 lit amber bottle EPA 625											Total	Remarks
DG-3	2/4/87	2	1											3	
GM-9	2/3/87	2	1											3	
GM-16b	"	2	1											3	
GM-17	"	2	1											3	
GM-19	"	2	1											3	
GM-81	2/4/87	2	1											3	
GM-82	"	2	1											3	
Trip Blank	2/3/87	2	—											2	

Total No. of Containers 23

Relinquished by: [signature] Organization: Geraghty & Miller Inc
Date: 2/5/87 Time: 1534

Received by: [signature] Organization: Pioneer Lab
Date: 2/5/87 Time: 1540

Relinquished by: _____ Organization: _____
Date: _____ Time: _____

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Delivery Method: _____ (attach shipping bill, if any)

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Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD CLNSACOU. FLORIDA 32514
PHONE (904) 474-1001

TO: Geraghty & Miller, Inc.
Northdale Executive Center
3820 Northdale Boulevard, Suite 200
Tampa, FL 33624

Lab ID: 87-316-8
Sample I.D.: Trip Blank
Project #: T0290PN5

TRIP BLANK
PRIORITY POLLUTANT ANALYSIS*

VOLATILES

		Reported in ppb	(ppb) Detection Limit
1V	Acrolein	BDL	100
2V	Acrylonitrile	BDL	100
3V	Benzene	BDL	1
4V	Bis(chloromethyl)ether	BDL	5
5V	Bromoform	BDL	5
6V	Carbon Tetrachloride	BDL	3
7V	Chlorobenzene	BDL	1
8V	Chlorodibromomethane	BDL	5
9V	Chloroethane	BDL	5
10V	2-Chloroethylvinyl Ether	BDL	5
11V	Chloroform	BDL	5
12V	Dichlorobromomethane	BDL	5
13V	Dichlorodifluoromethane	BDL	5
14V	1,1-Dichloroethane	BDL	5
15V	1,2-Dichloroethane	BDL	3
16V	1,1-Dichloroethylene	BDL	5
17V	1,2-Dichloropropane	BDL	5
18V	1,2-Dichloropropylene	BDL	5
19V	Ethylbenzene	BDL	1
20V	Methyl Bromide	BDL	5
21V	Methyl Chloride	BDL	5
22V	Methylene Chloride	BDL	5
23V	1,1,2,2-Tetrachloroethane	BDL	5
24V	Tetrachloroethylene	BDL	3
25V	Toluene	BDL	1
26V	1,2-trans-Dichloroethylene	BDL	5
27V	1,1,1-Trichloroethane	BDL	5
28V	1,1,2-Trichloroethane	BDL	5
29V	Trichloroethylene	BDL	1
30V	Trichlorofluoromethane	BDL	5
31V	Vinyl Chloride	BDL	1

*EPA Method 624 - Reference: Method for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057, July 1982.

Motes: ppb - parts per billion
BDL - Below Detection Limits

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL084 • FDER # EL020 • AL LAB ID # 40150