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SEMIANNUAL REPORT ON GROUNDWATER MONITORING WASTEWATER TREATMENT FACILITY NAVAL AIR STATION, PENSACOLA, FLORIDA

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Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 Eagle Drive, P.O. Box 10068
Charleston, South Carolina 29411-0068

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ecology and environment, inc.
316 SOUTH BAYLEN STREET, PENSACOLA, FLORIDA 32501, TEL. (904) 435-8925
International Specialists in the Environment

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TABLE OF CONTENTS

Section		Page
1	INTRODUCTION	1-1
	1.1 SITE SETTING	1-1
	1.2 SITE BACKGROUND	1-6
2	INVESTIGATION METHODOLOGY	2-1
	2.1 GROUNDWATER SAMPLING AND ANALYSES	2-1
	2.2 HYDROLOGIC ASSESSMENT	2-4
3	RESULTS	3-1
	3.1 HYDROLOGIC ASSESSMENT	
	3.1.1 Groundwater Flow Direction and Horizontal Hydraulic Gradient	3-1
	3.1.1.1 November 1991 Quarter	3-1
	3.1.1.2 January 1992 Quarter	3-6
	3.1.2 Groundwater Flow Rates	3-8
	3.1.2.1 November 1991 Quarter	3-11
	3.1.2.2 January 1992 Quarter	3-11
	3.2 CHEMICAL ANALYSES	3-14
	3.2.1 Metals	3-21
	3.2.2 Other Inorganics	3-25
	3.2.3 Radiochemistry	3-28
	3.2.4 Volatile Organic Compounds (VOCs)	3-29
	3.2.5 Base - Neutral/Acid Extractables (BNAs)	3-32
	3.2.6 Turbidity and Coliform	3-33

Table of Contents (Cont.)

Section		Page
	3.3 Quality Assurance/Quality Control (QA/QC)	3-33
	3.3.1 Field QA/QC	3-33
	3.3.2 Laboratory QA/QC	3-36
4	CORRECTIVE ACTION PROGRAM	4-1
	4.1 RECOVERY SYSTEM STATUS	4-1
	4.2 EFFECTIVENESS OF THE CORRECTIVE ACTION PROGRAM ..	4-2
5	REFERENCES	5-1
6	FLORIDA PROFESSIONAL GEOLOGIST SEAL	6-1

Appendix		Page
A	FDER FORM AND SPECIFIC CONDITION OF RCRA PERMIT	A-1
B	PARAMETER MONITORING REPORT FORMS AND ANALYTICAL METHOD SUMMARIES	B-1
C	CORRECTIVE-ACTION MONITORING WELLS/GROUNDWATER SAMPLING ANALYTICAL RESULTS	C-1
D	POINT-OF-COMPLIANCE MONITORING WELLS/GROUNDWATER SAMPLING ANALYTICAL RESULTS	D-1
E	FIELD AND LABORATORY QA/QC SAMPLE ANALYTICAL RESULTS .	E-1
F	DATA VALIDATION SUMMARY	F-1

LIST OF ILLUSTRATIONS

Figure		Page
1-1	Locations of Monitoring and Recovery Wells at the NAS Pensacola IWTP	1-2
3-1	Water Level Elevation Map for the Shallow Zone - NAS Pensacola IWTP 11-1-91	3-2
3-2	Water Level Elevation Map for the Intermediate Zone - NAS Pensacola IWTP 11-1-91	3-4
3-3	Water Level Elevation Map for the Deep Zone - NAS Pensacola IWTP 11-1-91	3-5
3-4	Water Level Elevation Hap for the Shallow Zone - NAS Pensacola IWTP 1-31-92	3-7
3-5	Water Level Elevation Map for the Intermediate Zone - NAS Pensacola IWTP 1-31-92	3-9
3-6	Water Level Elevation Map for the Deep Zone - NAS Pensacola IWTP	3-10
3-7	Metals Concentrations Exceeding the FPDWS or FSDWS in the Shallow Zone - NAS Pensacola IWTP	3-22
3-a	Metals Concentrations Exceeding the FPDWS or FSDWS in the Intermediate Zone -NAS Pensacola IWTP	3-23
3-9	Metals Concentrations Exceeding the FPDWS or FSDWS in the Deep Zone - NAS Pensacola IWTP	3-24
3-10	Other Inorganic and Radiochemical Parameter Concentrations Exceeding the FPDWS or FSDWS in the Intermediate Zone - NAS Pensacola IWTP	3-26
3-11	Other Inorganic Parameter Concentrations Exceeding the FPDWS or FSDWS in the Deep Zone - NAS Pensacola IWTP	3-27
3-12	Organic Compound Concentrations Exceeding the FPDWS in the Shallow Zone - NAS Pensacola IWTP	3-30
3-13	Organic Compound Concentrations Exceeding the FPDWS in the Intermediate Zone - NAS Pensacola IWTP	3-31

LIST OF TABLES

Table		Page
1-1	Construction Details of Monitoring and Recovery Wells Installed by E & E, Geraghty and Miller, Inc., and Missimer and Associates, Inc., at NAS Pensacola IWTP	1-4
2-1	Monitoring Wells Sampled and Parameters Analyzed at the IWTP NAS Pensacola	2-2
3-1	Groundwater Flow Rates for November 1991	3-12
3-2	Groundwater Flow Rates for January 1992	3-13
3-3	Summary Analytical Results for Corrective-Action Monitoring Wells	3-15
3-4	Summary Analytical Results for Point-of-Compliance Monitoring Wells	3-17
3-5	Summary Analytical Results for Field QA/QC Samples	3-34
4-1	Summary of IWTP Recovery Well Pumping Data - NAS Pensacola	4-3

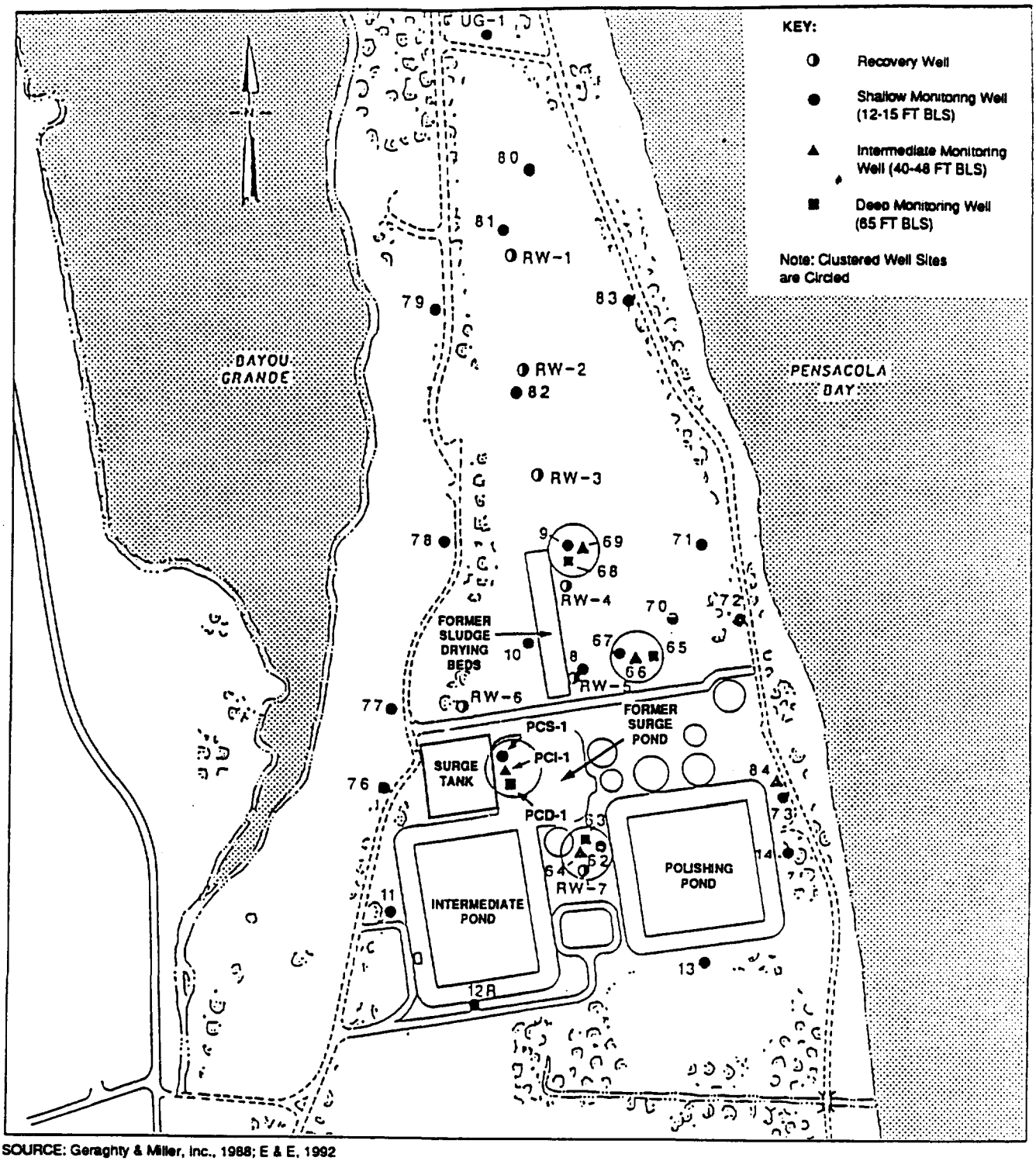
1. INTRODUCTION

This semiannual groundwater monitoring report presents the findings of the January 1992 groundwater sampling activities performed at the Industrial Wastewater Treatment Plant (IWTP) located at the Naval Air Station in Pensacola, Escambia County, Florida. This report has been prepared by Ecology and Environment, Inc., (E & E) for the Southern Division, U.S. Navy, Naval Facilities Engineering Command, under Contract No. N62467-88-C-0200. The information presented in this report is based on information and file documents provided by the Navy and on information gathered during the fieldwork conducted from November 1991 through January 1992 by E & E and/or its subcontractors.

All work at the IUTP was conducted in accordance with the approved administrative documents prepared by E & E for this project. These documents include the June 1990 Project Management Plan, June 1990 Site Management Plan, July 1990 Generic Quality Assurance Project Plan (GOAPP), July 1990 General Health and Safety Plan, November 1991 and January 1992 Site-Specific Health and Safety Plans, and November 1991 and the January 1992 Site-Specific Quality Assurance Plan. The work was also conducted in accordance with the Florida Department of Environmental Regulation's (FDER) Resource Conservation and Recovery Act (RCRA) Permit No. HF17-170951 dated September 20, 1991 (FDER 1991a). Appendix A presents FDER's Quarterly Report on Groundwater Monitoring Form as well as the specific conditions of the RCRA permit.

1.1 SITE SETTING

The IUTP is located approximately 750 feet north of Chevalier Field on the basal portion of the Magazine Point Peninsula (see Figure 1-1). The site is bordered on the east by Pensacola Bay and on the north and west



SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 1-1
LOCATIONS OF MONITORING AND RECOVERY WELLS AT THE NAS PENSACOLA IWTP

by Bayou Grande. A total of 32 groundwater monitoring wells and seven recovery wells are located at the IWTP facility. Nineteen of these wells (12 point-of-compliance [POC], six corrective-action [CA] and one background well) are used as groundwater sampling points under the current RCRA permit. Table 1-1 presents the well construction information for all of the on-site wells at the IWTP. Also included on this table are the water levels and calculated water level elevations for the IWTP wells as measured on November 1, 1991, and January 31, 1992. This information will be referred to later in this report.

The principal hydrogeologic unit underlying the IWTP is the Sand-and-Gravel Aquifer, which extends to a depth of approximately 300 feet. This aquifer is divided into three zones based on contrasting permeabilities. These zones are referred to as the surficial zone, the low permeability zone, and the main producing zone (Wilkens et al. 1985).

The surficial zone is contiguous with land surface and contains groundwater under water table or perched water table conditions. The thickness of the surficial zone underlying the IWTP is approximately 45 feet. Depth to water within the surficial zone at the IWTP ranges from 3 to 7 feet below land surface (BLS).

Underlying the surficial zone is a zone of lower permeability sediments and is referred to as the low permeability zone. At the IWTP, the top of this zone occurs at approximately 45 feet BLS, and it ranges from 15 to 20 feet in thickness. This zone primarily functions as a confining/semi-confining unit that inhibits the flow of groundwater between the surficial and underlying main producing zone.

The top of the main producing zone occurs at approximately 65 feet BLS at the IWTP. Due to the presence of the overlying low permeability zone, groundwater in the main producing zone occurs under confined conditions. Depth to water within the main producing zone at the IWTP ranges from 4 to 8 feet BLS. Regionally, the main producing zone

Table 1-1

CONSTRUCTION DETAILS OF MONITORING AND RECOVERY WELLS INSTALLED BY E & E, GERAGHTY AND MILLER, INC., AND MISSIMER AND ASSOCIATES, INC., AT NAS PENSACOLA IWTP

Well Designation	Installation Date	Total Depth Drilled (ft)	Screened Interval (ft)	Depth to Filter Pack (ft)	TOC Elevation (ft MSL)	Depth to Water (ft BTOC)		Water Level Elevation (ft MSL)	
						11/1/91	1/31/92	11/1/91	1/31/92
Monitoring Wells									
GM-8	3/84	12.0	9.5 - 12.0	5.5	6.12	4.63	NA	1.49	NA
On-9	3/84	12.0	9.3 - 11.8	5.3	5.65	4.29	3.75	1.36	1.90
OM-10	3/84	12.0	9.5 - 12.0	5.5	5.83	4.42	3.82	1.41	2.01
GM-11	3/84	12.0	9.3 - 11.8	5.5	6.00	4.12	3.75	1.88	2.25
GM-12R[a]	4/88	15.0	11.0 - 14.0	NA	9.83	7.97	7.34	1.86	2.49
OM-13R[b]	11/91	12.0	9.5 - 12.0	5.5	7.45	NA	5.50	NA	1.95
GM-14	3/84	12.0	8.9 - 11.4	5.0	4.56	2.67	3.40	1.89	1.16
GM-62	8/85	15.0	12.5 - 15.0	4.0	7.11	5.46	4.95	1.65	2.16
GM-63	8/85	65.0	62.5 - 65.0	56.0	6.97	4.62	5.14	2.35	1.83
GM-64	8/85	40.0	37.5 - 40.0	35.0	6.26	4.58	4.25	1.68	2.01
GM-65	8/85	65.0	62.5 - 65.0	58.0	6.67	4.18	4.85	2.49	1.82
On-66	8/85	40.0	37.5 - 40.0	31.0	7.48	6.32	6.11	1.16	1.37
OM-67	8/85	15.0	12.5 - 15.0	8.0	6.38	4.70	4.64	1.68	1.74
OH-68	8/85	65.0	62.5 - 65.0	56.0	7.00	4.60	5.25	2.40	1.75
GM-69	8/85	40.0	37.5 - 40.5	32.0	7.85	6.57	6.38	1.28	1.47
GM-70	8/85	15.5	12.5 - 15.0	7.0	7.15	AA	dry	NA	NA
OM-71	8/85	12.5	10.0 - 12.5	7.0	6.76	5.20	5.60	1.56	1.16
GM-72	8/85	12.5	10.0 - 12.5	7.0	7.61	5.63	6.55	1.98	1.06
OM-73	8/85	15.0	12.5 - 15.0	7.0	12.36	NA	11.30	NA	1.06

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Key at end of table.

Table 1-1 (Cont.)

Well Designation	Installation Date	Total Depth Drilled (ft)	Screened Interval (ft)	Depth to Filter Pack (ft)	TOC Elevation (ft MSL)	Depth to Water (Et BTOC) 11/1/91	Depth to Water (Et BTOC) 1/31/92	Water Level Elevation (ft MSL) 11/1/91	Water Level Elevation (ft MSL) 1/31/92
GM-76	NA	13.5	11.0 - 13.5	6.0	7.88	6.04	6.15	1.84	1.73
GM-77	NA	13.5	11.0 - 13.5	5.0	4.71	2.88	2.92	1.83	1.79
On-78	NA	13.0	10.5 - 13.0	8.0	7.02	5.37	5.13	1.65	1.89
GM-79	NA	12.5	10.0 - 12.5	7.0	4.65	3.25	NA	1.40	NA
GM-80	NA	13.5	11.0 - 13.5	8.0	4.63	NA	3.25	NA	1.38
GM-81	NA	12.5	10.0 - 12.5	8.0	4.33	NA	2.77	NA	1.56
on-82	NA	12.5	10.0 - 12.5	7.0	4.45	NA	NA	NA	NA
OM-83	NA	12.5	10.0 - 12.5	8.0	4.84	2.96	4.20	1.88	0.64
GM-84	NA	48.0	43.0 - 48.0	38.0	11.84	NA	NA	NA	NA
PCD-1	3/90	70.0	65.0 - 69.75	64.0	11.28	8.30	9.40	2.98	1.88
PCI-1	3/90	45.0	40.0 - 44.75	39.0	11.07	9.60	9.13	1.47	1.94
PCS-1	3/90	20.0	15.0 - 19.75	14.0	11.40	9.75	9.40	1.65	2.00
UG-1	1981	10.4	5.4 - 10.4	NA	8.48	6.80	6.95	1.68	1.53
Recovery Wells									
RW-1	10/86	30.0	15.0 - 30.0	NA	4.91	NA	NA	NA	NA
RW-2	10/86	37.0	22.0 - 37.0	NA	5.88	NA	NA	NA	NA
RW-3	10/86	37.0	22.0 - 37.0	NA	5.64	NA	NA	NA	NA
RU-4	10/86	39.0	24.0 - 39.0	NA	3.44	NA	NA	NA	NA
RW-5	10/86	39.0	24.0 - 39.0	NA	4.22	NA	NA	NA	NA
RW-6	10/86	39.5	24.5 - 39.5	NA	2.66	NA	NA	NA	NA
RW-7	10/86	39.0	24.0 - 39.0	NA	3.35	NA	NA	NA	NA

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Key:

[a]GM-12 was originally installed in March 1984 but was damaged and replaced with GM-12R in April 1988.
[b]GM-13 was originally installed in March 1984 but was damaged and replaced with GM-13R in November 1991.
NA = Not available or not collected.
TOC = Top of casing.
BTOC = Below top of casing.
MSL = Above mean sea level.

Source: Ecology and Environment, Inc., 1992: Geraghty and Miller, Inc., 1985, 1987, 1988.

generally has the highest permeability due to the occurrence of relatively thick sand and gravel beds.

The monitoring wells at the IWTP are open to three portions of the Sand-and-Gravel Aquifer. The "shallow zone" wells are open to the uppermost portion of the surficial zone, and are completed at an average depth of 15 feet BLS. The "intermediate zone" wells are open to the lower portion of the surficial zone, and are completed at an average depth of 40 feet BLS. The "deep zone" wells are open to the main producing zone, and are completed at an average depth of approximately 65 feet BLS.

1.2 SITE BACKGROUND

Historical analytical information evaluated by E & E indicates that the groundwater underlying the areas of the IUTP near the former sludge drying beds (north-central portion of the site) and the former surge pond (central portion of the site) is contaminated primarily with volatile organic compounds (VOCs), base neutral acid extractable organic compounds (BNAs), and metals. This contamination appears to be limited primarily to the intermediate zone, and to a lesser extent, the shallow zone. The only known potential sources of this contamination are the past and/or present activities associated with the IUTP. The IWTP sludge drying beds and the Wastewater Treatment Plant ponds are known to have received potentially hazardous materials (E & E 1992a).

Missimer and Associates, Inc., (M & A) and Geraghty and Miller, Inc., (G & M) installed the majority of the groundwater monitoring wells at the IUTP. M & A installed seven monitoring wells at the IUTP from 1981 to 1984. G & M installed 28 monitoring wells and seven recovery wells at the IWTP between 1984 and 1986 as part of a water-quality assessment program conducted in two phases (Characterization Study - G & M 1984 and Verification Study - G & M 1986). In September of 1987, an RCRA permit was issued to the facility (Permit No. HO17-12-7026; FDER 1987). G & M subsequently began a groundwater monitoring program under this RCRA permit. G & M monitored the groundwater on a quarterly basis until May 1989. E & E assumed the quarterly groundwater monitoring in May 1989 in

accordance with the above-cited RCRA permit. In March of 1990, E & E installed three additional monitoring wells at the site to replace three that had been destroyed during construction of the new surge tank. On September 20, 1991, a new RCRA permit was issued to the facility from FDER (Permit No. HF17-17-0951; FDER 1991a). In accordance with this permit, E 6 E began conducting semiannual groundwater monitoring in January of 1992. For a detailed history of the IWTP, refer to E 6 E's Remedial Investigation/Feasibility Study Work Plan - Group 0 (E & E 1992a).

2. INVESTIGATION METHODOLOGY

2.1 GROUNDWATER SAMPLING AND ANALYSES

Nineteen groundwater samples (11 from the shallow zone, four from the intermediate zone, and four from the deep zone), plus two duplicate samples, three equipment rinsate blanks, two trip blanks, one field blank, and one preservative blank were collected during the January 1992 sampling event. Weather conditions; purge volumes; and groundwater pH, specific conductance, and temperature were recorded in the field logbook prior to collecting each sample. All well purging and sampling activities were performed in accordance with sections 6.8 and 6.11 of the GQAPP. The duplicate samples were collected in the same manner and at the same time as the original samples. The trip blanks, field blank, and preservative blank were prepared in a clean location prior to sampling. The sampling equipment rinsate blanks were collected on site by rinsing the decontaminated groundwater sampling equipment with distilled water and collecting the rinse water.

Table 2-1 lists the 19 wells that were sampled, the parameters or group of parameters for which each sample was analyzed, and the analytical method numbers used in the analyses. All samples, except as noted below, were analyzed by E & E's Analytical Services Center (ASC) in Buffalo, New York, for the specified parameters using U.S. Environmental Protection Agency SW-846 Third Edition methods. All nitrate, total coliform, and turbidity analyses were performed by a subcontracted laboratory, Analytical Technologies, Inc., in Pensacola, Florida. All radiochemical analyses (radium-226, radium-228, gross alpha, and gross beta) were performed by a subcontracted laboratory, Environmental

Table 2-1

MONITORING WELLS SAMPLED AND PARAMETERS ANALYZED
AT THE IWTP NAS PENSACOLA

Well Type	Well Number	Depth	pH (150.1)	Specific Conductance (120.1)	Group 1[a]	VOCs (8240)	Metals[a]	Complexed Cyanide (9012)
POC	PCS-1	S	X	X	X			
POC	PCI-1	I	X	X	X			
POC	PCD-1	D	X	X	X			
BG	UG-1	S	X	X	X			
POC	GM-8	S	X	X	X			
POC	GM-9	S	X	X	X			
POC	GM-10	S	X	X	X			
POC	GM-11	S	X	X				X
POC	GM-12R	S	X	X				X
POC	GM-13	S	X	X				X
POC	GM-14	S	X	X				X
CA	Gfl-62	S	X	X	X			
CA	GM-63	D	X	X	X			
CA	GM-64	I	X	X	X			
CA	GM-65	D	X	X	X			
CA	Gfl-66	I	X	X	X			
CA	GM-67	S	X	X	X			
POC	GM-68	D	X	X	X			
POC	01-69	I	X	X	X			
	DUP 1		X	X	X			
	DUP 2		X	X	X			
	PB 1					X	X	X
	TB 1					X		
	TB 2					X		
	FB 1				X[b]			
	RB 1				X[b]			
	RB 2				X[b]			
	RB 3				X[b]			

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Key at end of table.

Table 2-1 (Coat.)

Key:

BG = Background well
POC = Point-of-compliance well
CA = Corrective-action well
DUP = Duplicate sample
PB = Preservative blank
TB = Trip blank
FB = Field blank
RB = Rinsate blank
S = Shallow
I = Intermediate
Deep
= Metals are the same a5 those included in Group 1 analyses (see below)
b = Excluding total coliform and turbidity

• Group 1 includes: VOCs (8240), BNAs (8270), metals (6010 [barium, cadmium, chromium, total copper, iron, manganese, nickel, silver, sodium, vanadium and zinc], 7060 [arsonic), 7421 [lead), 7470 [mercury], 7740 [selenium]), chloride (325.31, sulfate (9036), fluoride (340.2), complexed cyanide (9012), gross alpha (900.0), gross beta (900.01, radium-226 (903.11, radium-220 (904.01, turbidity (180.1), nitrate (352.1), and total coliform (909A). Group 1 parameters ate fror the specific conditions 111.7 and 111.10 to permit lo. HF17-170951.

Note: Number in parentheses indicates EPA method number used for parameter analysis.

Science and Engineering, in Gainesville, Florida. Both of these subcontracted laboratories have approved quality assurance plans on file with FDER.

2.2 HYDROLOGIC ASSESSMENT

The hydrologic assessment at the IWTP included the measurement of water levels and calculation of water level elevations and total well depths in the existing monitoring wells, the determination of groundwater flow directions in each zone, and the calculation of the average groundwater flow rate in each zone. Static water levels were measured relative to the previously determined elevations of the total organic carbon level of each well on November 1, 1991, and January 31, 1992, and the groundwater elevations were calculated using these water level measurements. Using these calculated elevations, groundwater flow direction and horizontal hydraulic gradients in the shallow, intermediate, and deep zones were determined for these two time periods. It should be noted that the groundwater recovery system was not in operation during the measurement of the water levels in November 1991, but was in operation, to some extent, during the month of January.

In addition to the groundwater flow direction, the groundwater flow rate in each of the monitored zones was determined for the two time periods (November 1991 and January 1992). As part of the tasks required for the Groundwater Flow Rate and Direction Determination Report (GFRDDR) for 1990 (E & E 1990f), short-term aquifer tests had been performed by E & E personnel at the IWTP. The aquifer tests consisted of both "slug" and pumping tests, and the purpose of these tests was to determine the approximate transmissivity (T), hydraulic conductivity (K), and groundwater flow velocity (V) for each monitored depth zone. The methodology applied in obtaining T and K using these aquifer test results and the estimated T and K for each monitored zone are presented in E & E's 1990 GFRDDR for IWTP. Given that T and K are measurements of aquifer characteristics and are not time-dependent variables, aquifer testing was not repeated as part of the tasks required for this report.

Therefore, the average estimated values for T and K presented in E & E's 1990 GFRDDR for the IWTP are used in this report to calculate the groundwater flow velocity for each zone.

The horizontal V for each zone was determined using the average estimated K values and a derivation of Darcy's Lav:

$$V = \frac{KI}{n_e}$$

where: V = Velocity (feet per day [ft/day])
K = hydraulic conductivity (ft/day)
I = horizontal hydraulic gradient
n_e = effective porosity.

The effective porosity for these calculations was estimated at 28%, a value typical of unconsolidated, medium-grained sands.

The results of the hydrologic assessment are presented in Section 3.1.

3. RESULTS

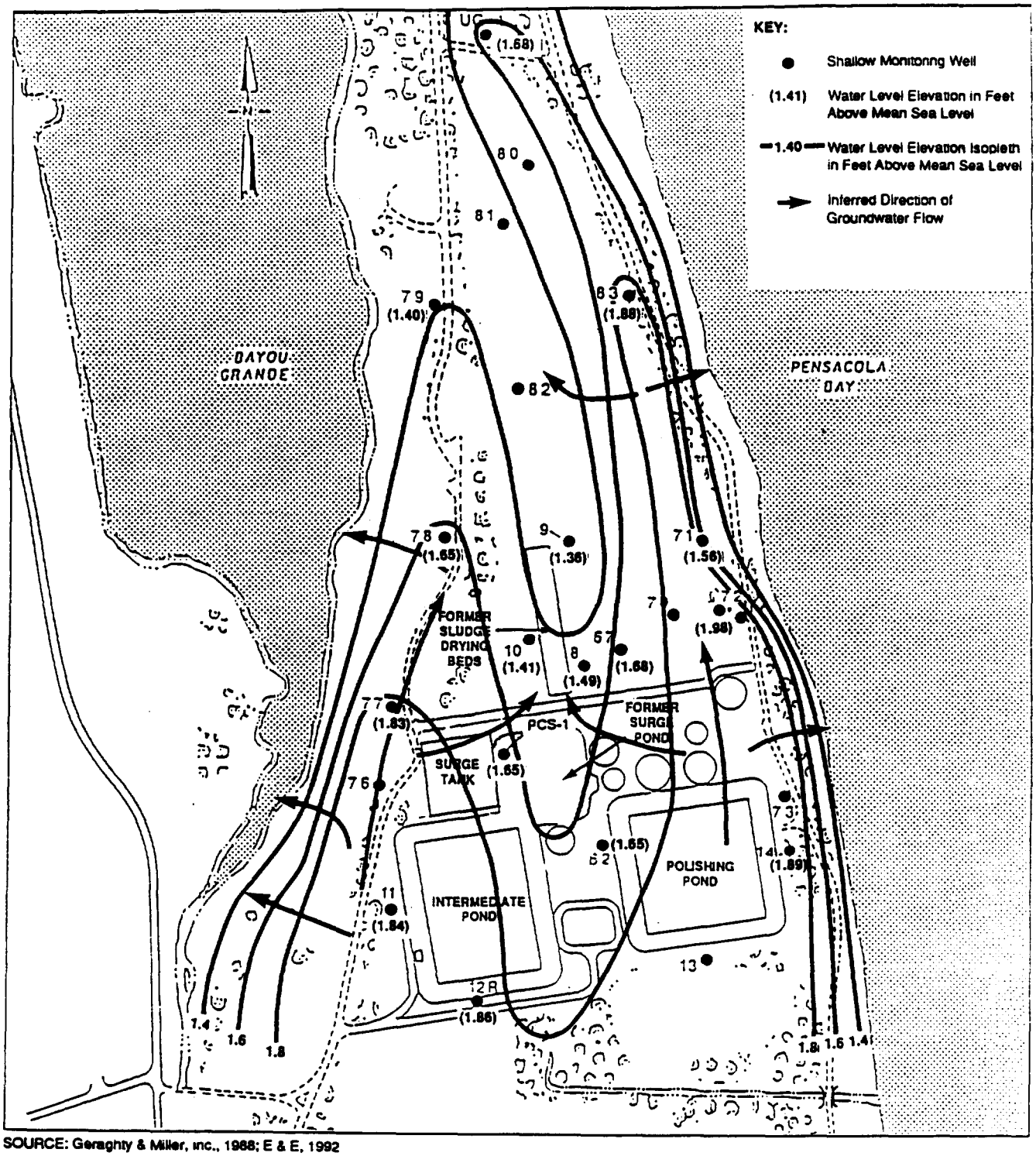
3.1 HYDROLOGIC ASSESSMENT

3.1.1 Groundwater Flow Direction and Horizontal Hydraulic Gradient

3.1.1.1 November 1991 Quarter

Figure 3-1 shows the November 1991 water level elevations and the interpreted groundwater flow directions for the shallow zone of the Sand-and-Gravel Aquifer underlying the IWTP. The water level measurements and calculated water level elevations for the shallow zone wells were presented in Table 1-1. Groundwater elevations in the shallow zone during November 1991 were lower in the central portions of the peninsula and higher along the perimeters of the penisula. Groundwater flow is consequently towards the lower groundwater elevations in the central portion of the peninsula, and towards the lower groundwater elevations near the coasts of the peninsula (Bayou Grande and Pensacola Bay). The November 1991 water level elevations differ from those elevations measured in the past, which have been higher in the medial portion of the peninsula and lower near the adjacent surface water bodies (E & E 1990f). Although the reasons for the observed differences between the November 1991 water level elevations and those measured in the past are unclear, they may have been due to tidal influences. A high tide may have been occurring at the same time the November 1991 water levels were measured which would presumably affect those wells closest to the surface water bodies. In addition, it should be noted that the recovery system was not in operation during collection of the November 1991 water levels.

A horizontal hydraulic gradient was calculated in each of the flow directions for the shallow zone. Using the water level elevation differences between well GM-83 and the 1.4 foot contour isopleth, a



SOURCE: Geraghty & Miller, inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

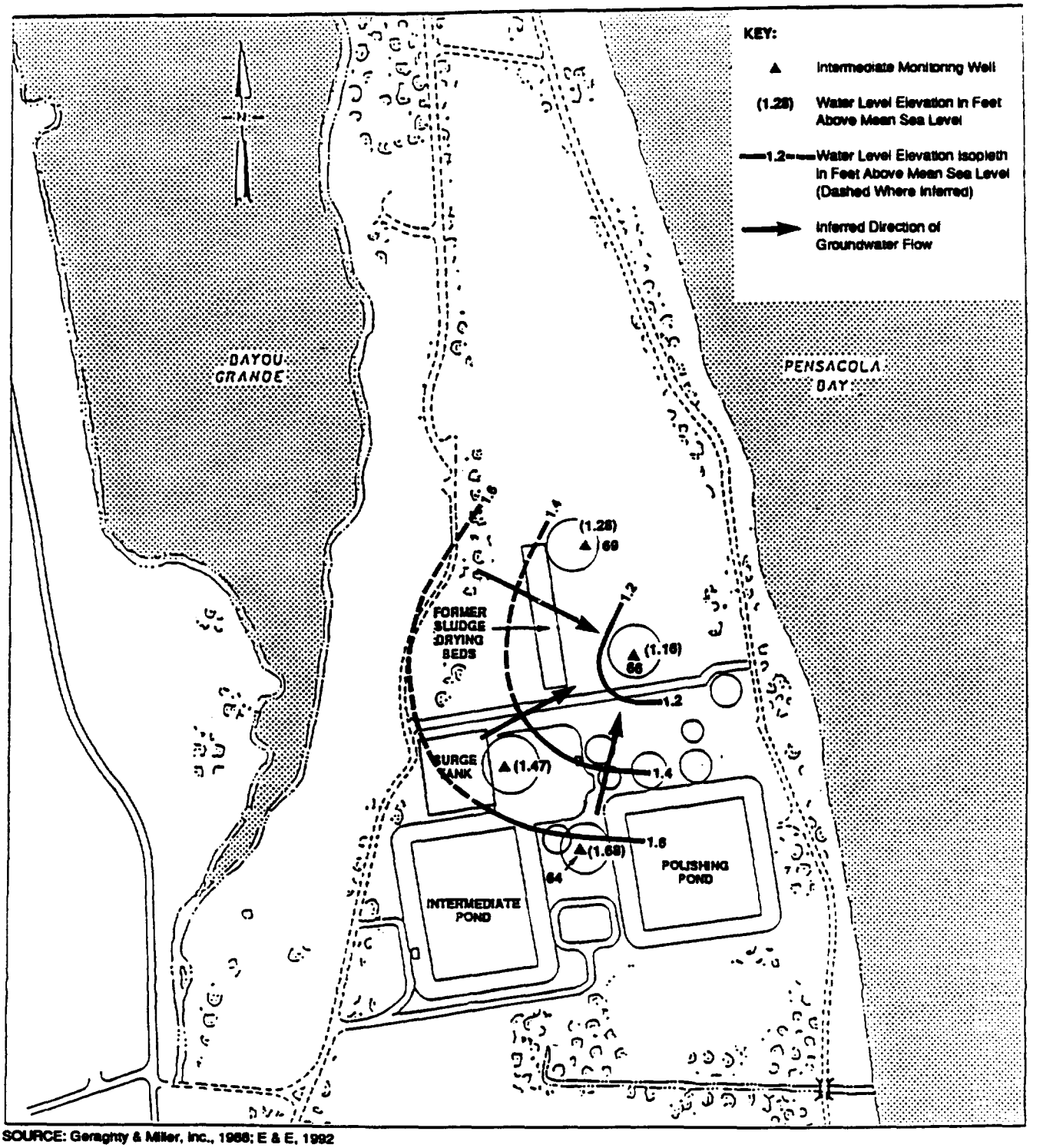
Figure 3-1
WATER LEVEL ELEVATION MAP FOR THE SHALLOW ZONE
NAS PENSACOLA IWTP
(11/01/91)

horizontal hydraulic gradient was calculated for the eastern flow direction and was 0.0036. Using water level elevation differences between monitoring well GM-76 and the 1.4 foot contour isopleth, a horizontal hydraulic gradient was calculated for the western flow direction and was 0.0024. The horizontal hydraulic gradient in the northern flow direction was calculated using water level elevation differences between wells GM-12R and GM-9 and was 0.0004 and wells GM-77 and GM-79 and was 0.0004.

Figure 3-2 shows the November 1991 water level elevations and groundwater flow direction of the four intermediate zone monitoring wells, GM-64, GM-66, GM-69, and PCI-1. The water level measurements and calculated water level elevations for the intermediate wells are presented in Table 1-1. For the area immediately underlying the facility, groundwater flow appears to be in a southeastern, eastern, and northeastern direction, and converges near the east-central portion of the peninsula. Again, it should be noted that the recovery system was not in operation during collection of the November 1991 water levels. Due to the presence of a confining/semiconfining unit below this zone at approximately 40 feet BLS, the majority of groundwater in the intermediate zone underlying the IWTP probably discharges into Pensacola Bay to the east.

Using the water level elevation difference between wells GM-66 and PCI-1, a horizontal hydraulic gradient was calculated for this zone and was 0.0006.

Figure 3-3 shows the November 1991 water level elevations and groundwater flow direction of the four deep zone monitoring wells GM-63, GH-65, GM-68, and PCD-1. The water level measurements and the calculated water level elevations for the deep zone wells were presented in Table 1-1. For the area immediately underlying the facility, groundwater flow appears to radiate from the west-central portion of the peninsula towards the northeast, east, and southeast. Groundwater discharge from the deep zone in this area is probably into Pensacola Bay (Richards, 1991).

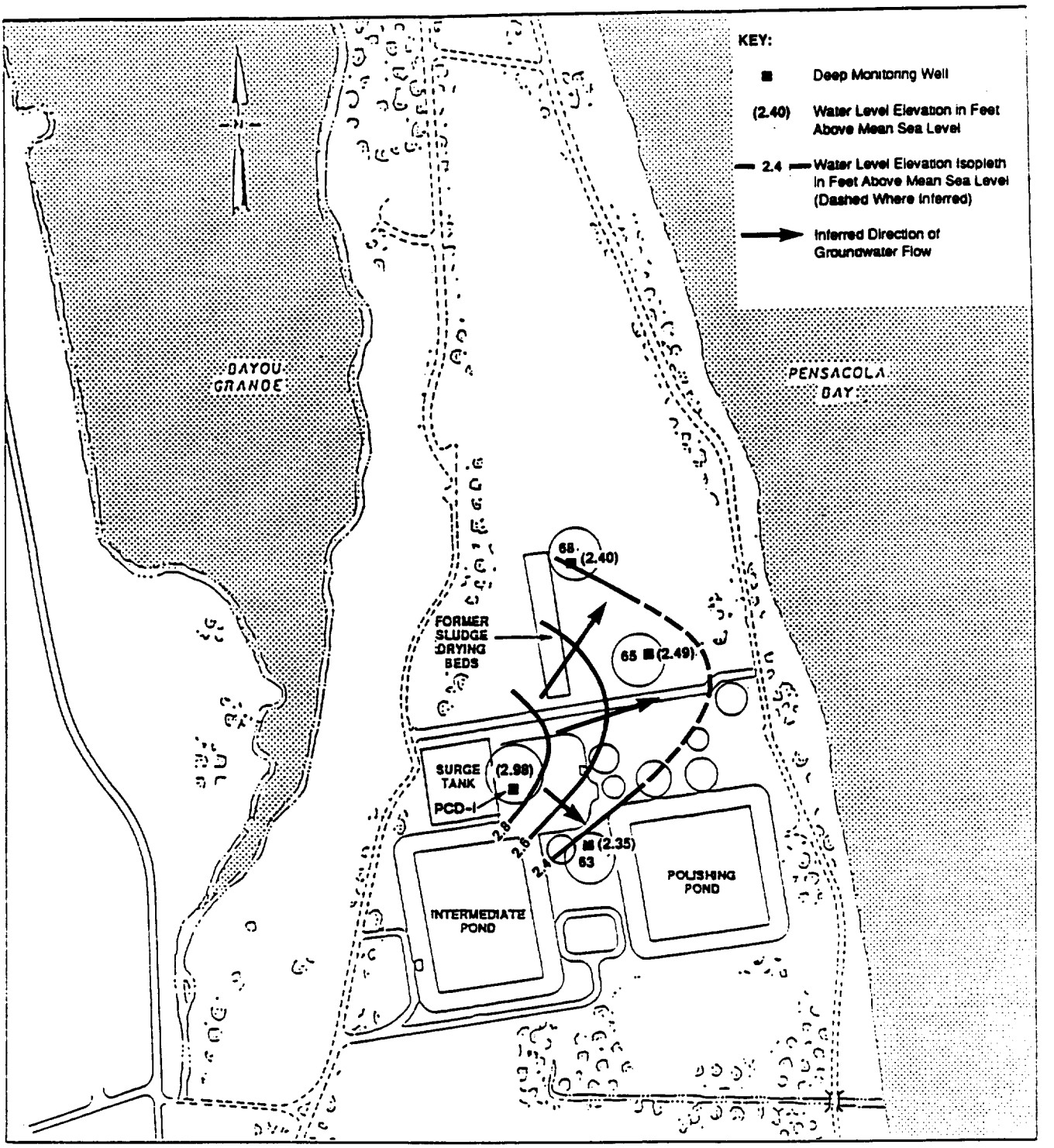


SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 3-2
WATER LEVEL ELEVATION MAP FOR THE INTERMEDIATE ZONE
NAS PENSACOLA IWTP
(11/01/91)



SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 500 FEET

Figure 3-3
WATER LEVEL ELEVATION MAP FOR THE DEEP ZONE
NAS PENSACOLA IWTP
(11/01/91)

A horizontal hydraulic gradient was calculated for the northeastern and southeastern directions of groundwater flow in the deep zone. Using the water level elevation differences between monitoring wells GM-65 and the 2.6 foot contour isopleth, a shallow horizontal hydraulic gradient was calculated for the northeastern flow direction and was 0.0007. Using the water level elevation differences between wells PCD-1 and GM-63, a steeper horizontal hydraulic gradient was calculated for the southeastern flow direction and was 0.0021.

3.1.1.2 January 1992 Quarter

Figure 3-4 shows the shallow zone water level elevations as measured on January 31, 1992, and the interpreted groundwater flow direction. The water depths and calculated water level elevations for the shallow wells for January are presented in Table 1-1. Groundwater flow appears to radiate away from the south-central area of the peninsula towards the north, east, and west. This flow pattern is a subdued reflection of the peninsular topography, with the higher elevations in the central portion of the peninsula and the lower elevations along the coasts. Due to the underlying low permeability zone, groundwater discharge is likely into Pensacola Bay to the east and Bayou Grande to the west and north. Although the recovery wells RW4, 5, 6, and 7 were in operation during the water level measuring activities in January, there does not appear to be an influence from the system on the shallow zone water levels. The water levels were generally lower in the shallow zone in January than in the preceding quarter.

The horizontal hydraulic gradient in the shallow zone in the north-eastern flow direction, calculated using water level elevation differences between monitoring wells GM-12R and GM-14 is approximately 0.0013. The horizontal hydraulic gradient in the northwestern direction, calculated from wells GM-12R and GM-11, is approximately 0.0007. Using water level elevation differences between wells GM-12R and GM-10, a horizontal hydraulic gradient was calculated in the generally northern flow direction and is 0.0005.

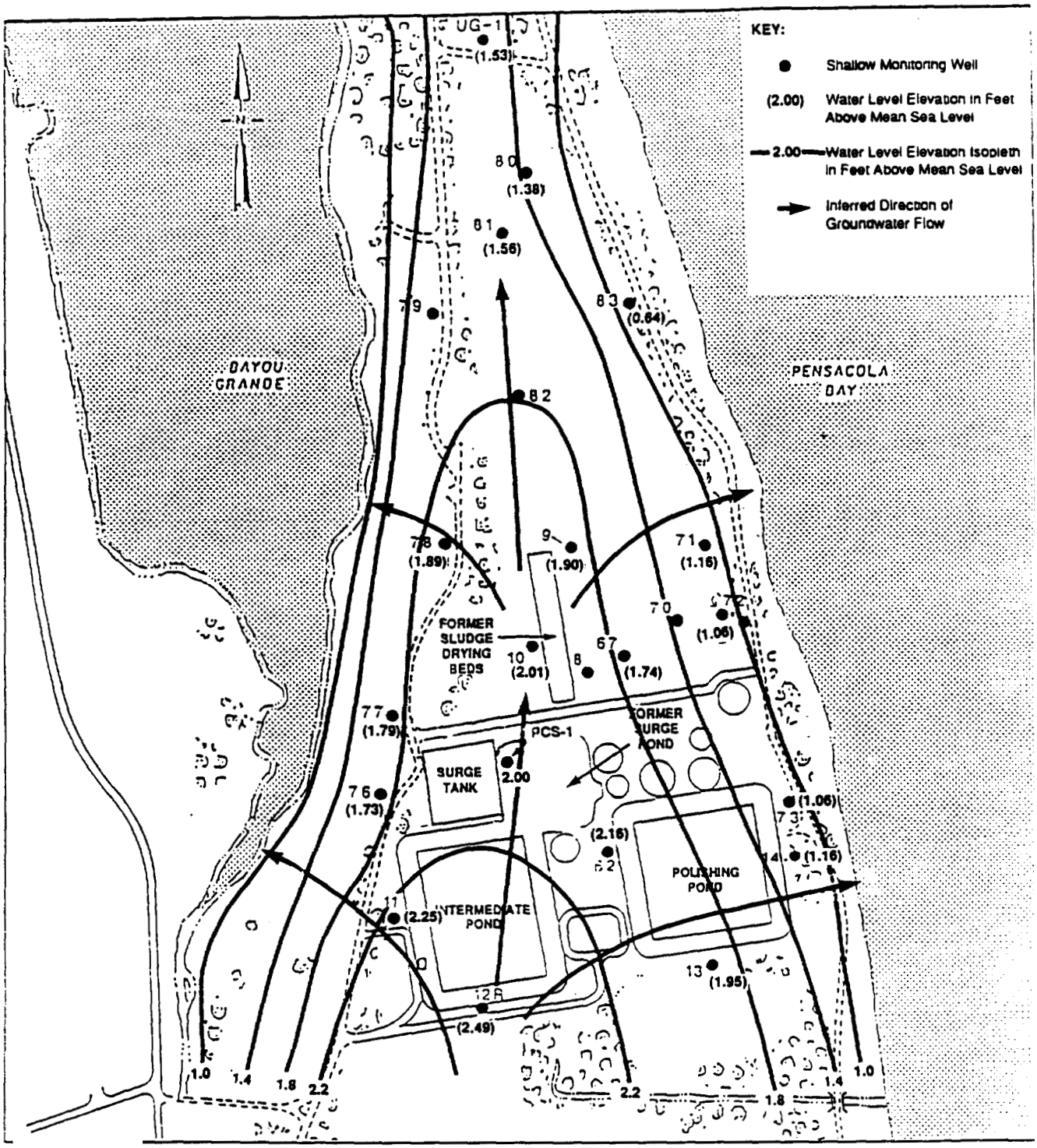


Figure 3-4
WATER LEVEL ELEVATION MAP FOR THE SHALLOW ZONE
NAS PENSACOLA IWTP
(01/31192)

Figure 3-5 shows the water level elevations of three intermediate wells at the IWTP measured in January 1992 and the inferred intermediate zone groundwater flow direction. The January water depth measurements and calculated water level elevations for the intermediate wells are presented in Table 1-1. The groundwater flow direction in the intermediate zone is generally to the southeast-east and northeast, in a converging flow pattern present that is similar to the groundwater flow pattern in this zone during November 1991. Discharge from this zone is likely to the east into Pensacola Bay. The operation of recovery wells RW4, 5, 6, and 7 does not appear to affect the intermediate zone water levels. In addition, it should be noted that the water levels measured in this zone in January were slightly higher than those measured in November.

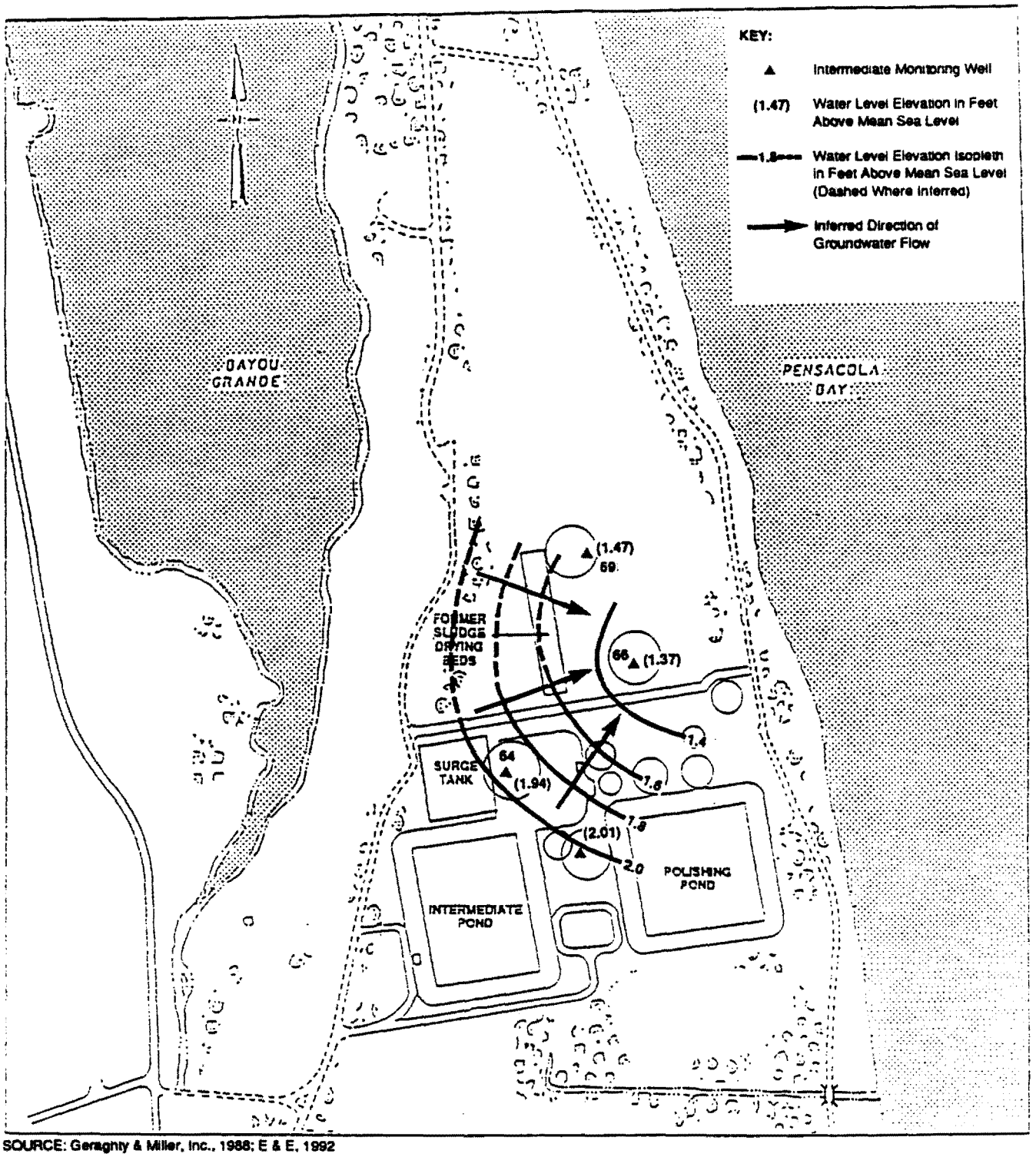
Using the water level elevation difference between wells GM-66 and PCI-1, a horizontal hydraulic gradient of 0.0012 was calculated for the eastern-northeastern flow direction.

Figure 3-6 shows the water level elevations measured in wells GM-63, GH-65, GM-68, and PCD-1 on January 31, 1992, and the inferred deep zone groundwater flow direction. The January water depth measurements and calculated water level elevations for the deep zone wells are presented in Table 1-1. The groundwater flow appears to be in a northeastern, northern, and northwestern direction, converging in an area just north of the IWTP.

Using the water level elevation differences between monitoring wells PCD-1 and GM-68, and between GM-63 and GM-68, two horizontal hydraulic gradients, 0.0002 and 0.0001, respectively, were calculated for the deep zone.

3.1.2 Groundwater Flow Rates

Using the groundwater elevations and horizontal hydraulic gradients that were presented in the preceding section, and the aquifer properties

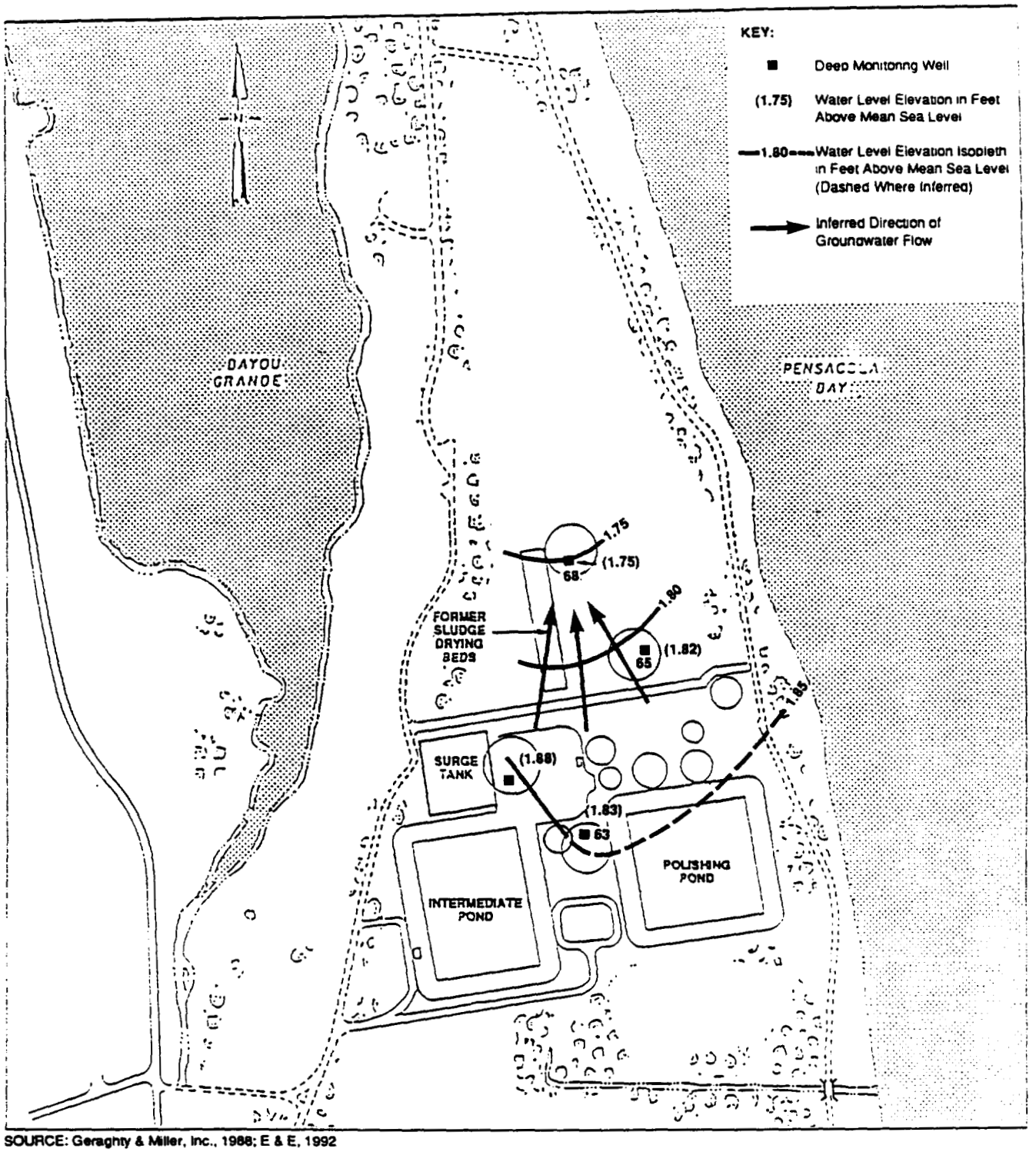


SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 3-5
WATER LEVEL ELEVATION MAP FOR THE INTERMEDIATE ZONE
NAS PENSACOLA IWTP
(01/31/92)



SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 500 600 FEET

Figure 3-6
WATER LEVEL ELEVATION MAP FOR THE DEEP ZONE
NAS PENSACOLA IWTP

(T and K) that were calculated by E & E (1990f), average estimated groundwater flow rates have been calculated for each of the three water level zones (shallow, intermediate, and deep) at the IWTP for November 1991 and January 1992. Flow rates were calculated using the equation presented in Section 2.1. For the purposes of calculating horizontal groundwater flow velocities (V), the reported hydraulic gradients for each zone were averaged for each time period. Tables 3-1 and 3-2 present the groundwater flow rates for each monitoring zone for November 1991 and January 1992, respectively.

3.1.2.1 November 1991 Quarter

The average estimated K for wells open to the shallow zone (23.15 ft/day; see Table 3-1) indicates that this zone is moderately permeable. The average hydraulic gradient (0.0021) was used to calculate the average estimated horizontal groundwater flow velocity, which is 0.1736 ft/day (63.364 ft/yr; see Table 3-1).

The average estimated K for wells open to the intermediate zone (0.50 ft/day; see Table 3-1) indicates that this zone is characterized by relatively low permeabilities. The average hydraulic gradient (0.0006) was used to calculate the average estimated horizontal groundwater flow velocity, which is 0.0011 ft/day (0.4015 ft/yr; see Table 3-1).

The average estimated K for wells open to the deep zone (13.52 ft/day; see Table 3-1) indicates that this zone is moderately permeable. The average hydraulic gradient (0.0014) was used to calculate the average estimated horizontal groundwater flow velocity, which is 0.0676 ft/day (24.674 ft/yr; see Table 3-1).

3.1.2.2 January 1992 Quarter

For the shallow zone, the average hydraulic gradient (0.0007) was used to calculate the average estimated horizontal groundwater flow velocity for January 1992, which is 0.0661 ft/day (24.1265 ft/yr; see Table 3-2).

Table 3-1

GROUNDWATER FLOW RATES
FOR NOVEMBER 1991

Average[a] Estimated Transmissivity (T) (Ft^2/day)	Average[a] Estimated Hydraulic Conductivity (K) (Ft/day)	Average Estimated Groundwatot Flow Rate (V) (Ft/day)	(Ft/yr)
Shallow son.			
57.87	23.15	0.1736	63.364
Intermediate son.			
1.26	0.50	0.0011	0.4015
Deep Zone			
33.80	13.52	0.0676	24.674

14[NASP]UH9000:T0491/1437/24

Note: Horizontal hydraulic gradients used for groundwater flow rate calculations: Shallow zone 0.0021, Intermediate Zone 0.0006, Deep Zone 0.0014.

Key :

[a]Averages calculated using slug and pumping test results from March, 1990 aquifer testing (E & E 1990).

Table 3-2

GROUNDWATER FLOW RATES FOR JANUARY 1992

Average[a] Estimated Transmissivity (T) (Ft^2/day)	Average[a] Estimated Hydraulic Conductivity (K) (Ft/day)	Average Estimated Groundwater Flow Rate (V) (Ft/day)	(Ft/yr)
Shallow Zone			
57.87	23.15	0.0661	24.1265
Intermediate Zone			
1.26	0.50	0.0021	0.7665
Deep Zone			
33.80	13.52	0.0072	2.628

14[NASP]UH9000:T0491/1436/24

Note: Horizontal hydraulic gradients used for groundwater flow rate calculations: Shallow Zono 0.0008, Intermediate Zono 0.0012, Deep Zono 0.00015.

Key:

[a]Averages calculated using slug and pumping test results froa March, 1990 aquifer testing (E & E 1990).

For the intermediate zone, the hydraulic gradient (0.0012) was used to calculate the average estimated horizontal groundwater flow velocity for January 1992, which is 0.0021 ft/day (0.7665 ft/yr; see Table 3-2).

For the deep zone, the average hydraulic gradient (0.00015) was used to calculate the average horizontal groundwater flow velocity for January 1992, which is 0.0072 ft/day (2.628 ft/yr; see Table 3-2).

Overall, the groundwater flow rates in the shallow and deep zones were somewhat higher for January 1992 than for November 1991. The groundwater flow rate in the intermediate zone was comparable for both time periods.

3.2 CHEMICAL ANALYSES

The following section presents a brief summary of the results of the laboratory analyses of the groundwater samples collected from the IWTP monitoring wells in January 1992. Table 2-1 presented the specific analytical parameters or groups of parameters analyzed for each sample. Appendix B presents the FDER Parameter Monitoring Report forms for each sample, and the analytical method reference summaries from E & E's ASC. Table 3-3 summarizes the analytical results for the groundwater samples collected from the CA wells and Table 3-4 summarizes the analytical results for the groundwater samples collected from the POC wells and the background well (UG-1). These tables present only the parameters detected in each sample. The complete analytical results for the CA wells and the POC wells are presented in appendices C and D, respectively. Table C-1, included in Appendix C, presents the groundwater sample designations for the CA well samples. Table D-1, included in Appendix D, presents the groundwater sample designations of the POC well samples. Due to the large number of wells sampled and parameters analyzed and detected, this summary is limited to a discussion of the occurrence and distribution of groundwater constituents which exceed FPDWS or FSDWS. All of the FPDWS and FSDWS cited in this report are listed in FDER's Drinking Water Standards (1990b).

Table 3-3

SUMMARY ANALYTICAL RESULTS FOR CORRECTIVE-ACTION MONITORING WELLS
(All results in ug/L unless noted)

Compound	Sample No. (Location)					
	P32W062 (GM-62)	P32W063 (GM-63)	P32W064 (OM-64)	P32W065 (GH-65)	P32W066 (GM-66)	P32W067 (GM-67)
Barium	59	23	--	--	58	--
Chromium	--	--	--	--	340	--
Copper	--	--	--	--	21	--
Iron	9,500	1,400	390	720	360,000	1,800
Manganese	400	44	78	84	1,600	260
Sodium (mg/L)	16	540	150	100	660	24
Lead	--	--	6.9	--	--	--
Nickel	--	--	--	--	160	--
Vanadium	--	--	--	--	430	--
Zinc	--	--	—	--	340	14
Chloride (mg/L)	8.9	660	200	140	570	27
Sulfate (mg/L)	12	85	150	14	9,200	23
Cyanide (mg/L)	0.14	0.023	0.13	0.020	0.014	0.11
Fluoride (mg/L)	0.44	--	0.22	--	--	--
Chloromethane	--	(L)	--	--	--	--
vinyl chloride	--	--	--	--	200	--
Tetrachloroethene	--	--	--	--	(L)	--
Methylene Chloridm	17(B)	16(B)	16(B)	16(B)	(L,B)	(L,B)
Toluene	--	--	--	--	10	--
Chlorobenzene	--	--	12	--	130	42
Acetone	61(B)	24(B)	37(B)	26(B)	26(B)	(L,B)

14[NASP]UH9000:T0491/1435/14

Key at end of table.

Table 3-3 (Coat.)

Compound	Sample No. (Location)					
	P32W062 (GM-62)	P32W063 (GM-63)	P32W064 (GM-64)	P32W065 (GM-65)	P32W066 (GM-66)	P32W067 (GM-67)
Carbon Disulfide	(L,A)	10(A)	6.0(A)	11(A)	95(A)	5.0(A)
1,1-Dichloroethene	--	--	--	--	240	--
1,1-Dichloroethane	--	--	--	--	45	--
Total-1,2-Dichloroethene	--	--	--	--	940	--
1.2-Dichloroothane	--	--	--	--	(L)	--
Trichlorethene	--	--	--	--	4,800	--
Total Xylenes	--	--	--	--	10	--
1,3-Dichlorobenzene	--	--	(L)	--	12	L)
1,4-Dichlorobenzene	--	--	(L)	--	24	L)
1,2-Dichlorobenzene	--	--	(L)	--	34	L)
Naphthalene	--	--	--	--	23	--
Bis(2-Ethylhexyl)Phthalate	(L,B)	(L)	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	47	--
2-Methylphenol	--	--	--	--	(L)	--
Gross Alpha (pCi/L)	--	9.9+/-13.8	26.0+/-11.4	2.6+/-3.0	31.9+/-125	6.9+/-5.7
Gross Beta (pCi/L)	8.7+/-5.2	33.5+/-24.2	--	28.5+/-13.4	1SO+/- 174	--
Radium-226 (pCi/L)	0.8+/-0.4	1.9+/-0.9	0.4+/-0.4	1.1+/-0.6	20.1+/-2.0	0.3+/-0.3
Radium-228 (pCi/L)	--	0.6+/-0.8	0.6+/-0.7	--	0.5+/-0.8	0.5+/-0.7
Turbidity (N.T.U.)	26	5.8	4.8	1.7	29	17
Total Coliform (CLY/100)	--	--	65	--	--	--

14[NASP]UH9000:T0491/1435/14

Key:

L-Compound present below detection limit.
B-Compound also present in method blank.
A-Phenoaenon of methodology.
(--) indicates compound not detected.

Table 3-4

SUMMARY ANALYTICAL RESULTS FOR POINT-OF-COMPLIANCE MONITORING WELLS
(All results in ug/L unless noted)

Parameter	Sample No. (Location)					
	P32W001 (UG-1)	P32W008 (GM-8)	P32W009 (OM-9)	P32W010 (GM-10)	P32W068 (GM-68)	P32W069 (GM-69)
Barium	--	78	32	16	--	34
Cadmium	--	5.1	--	--	--	--
Chromium	--	11	--	--	--	--
Iron	1,400	3,200	1,400	370	1,600	340
Manganese	--	71	20	62	60	91
Sodium (mg/L)	8.3	9.8	3.5	6.0	91	600
Zinc	--	18	--	--	--	--
Chloride (mg/L)	11	24	3.8	11	130	630
Sulfate (mg/L)	39	4.6	11	12	12	250
Cyanide (mg/L)	0.015	0.052	0.027	0.025	0.014	--
Fluoride (mg/L)	--	0.34	0.27	0.21	--	0.27
Vinyl Chloride	--	(L)	--	--	--	--
Methylene Chloride	15(B)	14(B)	16(B)	(L,B)	7.0(B)	600(B)
Benzene	--	300	--	--	--	--
Toluene	--	20	--	--	--	--
Chlorobenzene	--	8,200(X)	100	--	--	(L)
Acetone	27(B)	46(B)	22(B)	18(B)	19(B)	(L,B)
Carbon Disulfide	--	--	5.0(A)	21(A)	(L,A)	6,800(A)
1.2-Pichloropropane	(L)	--	--	--	--	--
1,1-Dichloroethane	--	6	--	--	--	--
Tptal-1.2-Dichloroethene	--	(L)	--	--	--	--
Ethylbenzene	--	(L)	--	--	--	--
Total Xylenes	--	7.0	--	--	--	--

14[NASP]UH9000:T0491/1434/12

Key at end of table.

Table 3-4 (Cont.)

Parameter	Sample No. (Location)					
	P32W001 (UG-1)	P32W008 (GM-8)	P32W009 (OM-9)	P32W010 (GM-10)	P32W068 (GM-68)	P32W069 (OM-691
1,3-Dichlorobenzene	--	58	(L)	--	--	510
1,I-Dichlorobenxeno	--	44	(L)	--	--	450
1,2-Dichlorobenzene	--	16	--	--	--	470
Bis(2-Ethylhexyl)Phthalate	(L,B)	(L,B)	--	--	--	(L)
Naphthalone	--	47	--	--	--	--
2-Chloropheno1	--	(L)	--	--	--	--
2,4-Dichlorophenol	--	--	--	--	--	(L)
Gross Alpha (pCi/L)	1.0+/-1.7	3.5+/-2.8	--	--	8.5+/-7.6	16.4+/-16.9
Gross Beta (pCi/L)	8.6+/-4.0	--	3.8+/-4.7	--	53.1+/-15.2	78.8+/-26.6
Radium-226 (pCi/L)	0.3+/-0.4	1.3+/-0.5	0.5+/-0.3	--	1.5+/-1.3	1.3+/-0.6
Radium-228 (pCi/L)	0.9+/-0.6	1.1+/-0.6	0.5+/-0.6	--	--	1.6+/-0.6
Turbidity (N.T.U.)	14	15	5.2	3.4	2.8	18
Total Coliform (CLY/100)	28	--	--	--	--	--

14[NASP]UH9000:T0491/1434/12

Key at end of table.

Table 3-4 (Cont.)

Parameter	Sample No. (Location)		
	P32WS001 (PCS-1)	P32WI001 (PCI-1)	P32WD001 (PCD-1)
Barium	--	--	22
Iron	4,000	140	1,600
Manganese	85	15	68
Sodium (mg/L)	29	180	180
Zinc	40	36	64
Chloride (mg/L)	16	240	300
Sulfate (mg/L)	18	120	25
Cyanide (mg/L)	0.037	0.25	--
Fluoride (mg/L)	0.29	0.37	--
Nitrate (mg/L)	--	--	0.2
Methylene Chloride	(L,B)	(L,B)	L,B)
Chlorobenzene	(L)	22	--
Acetone	16(B)	--	--
carbon Disulfide	12(A)	25(A)	5(A)
1,3-Dichlorobenzene	--	(L)	--
1,4-Dichlorobenzene	--	(L)	--
1,2-Dichlorobenzene	(L)	16	--
Butyl Benzyl Phthalate	--	(L)	17
Benzyl Alcohol	--	13	25
Bis(2-Ethylhexyl)Phthalate	(L,B)	13(B)	26(B)
Fluorene	(L)	--	--
Gross Alpha (pCi/L)	3.1+/-2.5	32.0+/-15.2	11.0+/-9.2
Gross Beta (pCi/L)	1.8+/-3.4	30.7+/-18.5	22.8+/-16.9
Radium-226 (pCi/L)	0.8+/-0.5	2.9+/-1.0	0.8+/-0.6
Radium-228 (pCi/L)	1.1+/-0.6	0.7+/-0.6	0.6+/-0.5
Turbidity (N.T.U.)	100	10	14

14[NASP]UH9000:T0491/1434/12

Key at end of table.

Table 3-4 (Cont.)

Parameter	Sample No. (Location)			
	P32W011 (GM-11)	P32W012R (GM-12R)	P32W013 (GM-13)	P32W014 (GM-14)
Cyanide (mg/L)	0.093	0.020	0.058	0.060

14[NASP]UH9000:T0491/1434/12

Key :

8-Compound also present in method blank.
L-Compound present below detection limit.
X-Exceeds calibration limit.
A-Phenomenon of methodology.
(--) indicates compound not detected.

Results from the January 1992 sampling event (for those samples exceeding the FPDWS or FSDWS) will be compared to the previous four quarters' analytical results (November 1990, February 1991, August 1991, and November 1991). It should be noted that the recovery system was inoperable during the previous four quarters but was operable during the January 1992 sampling event.

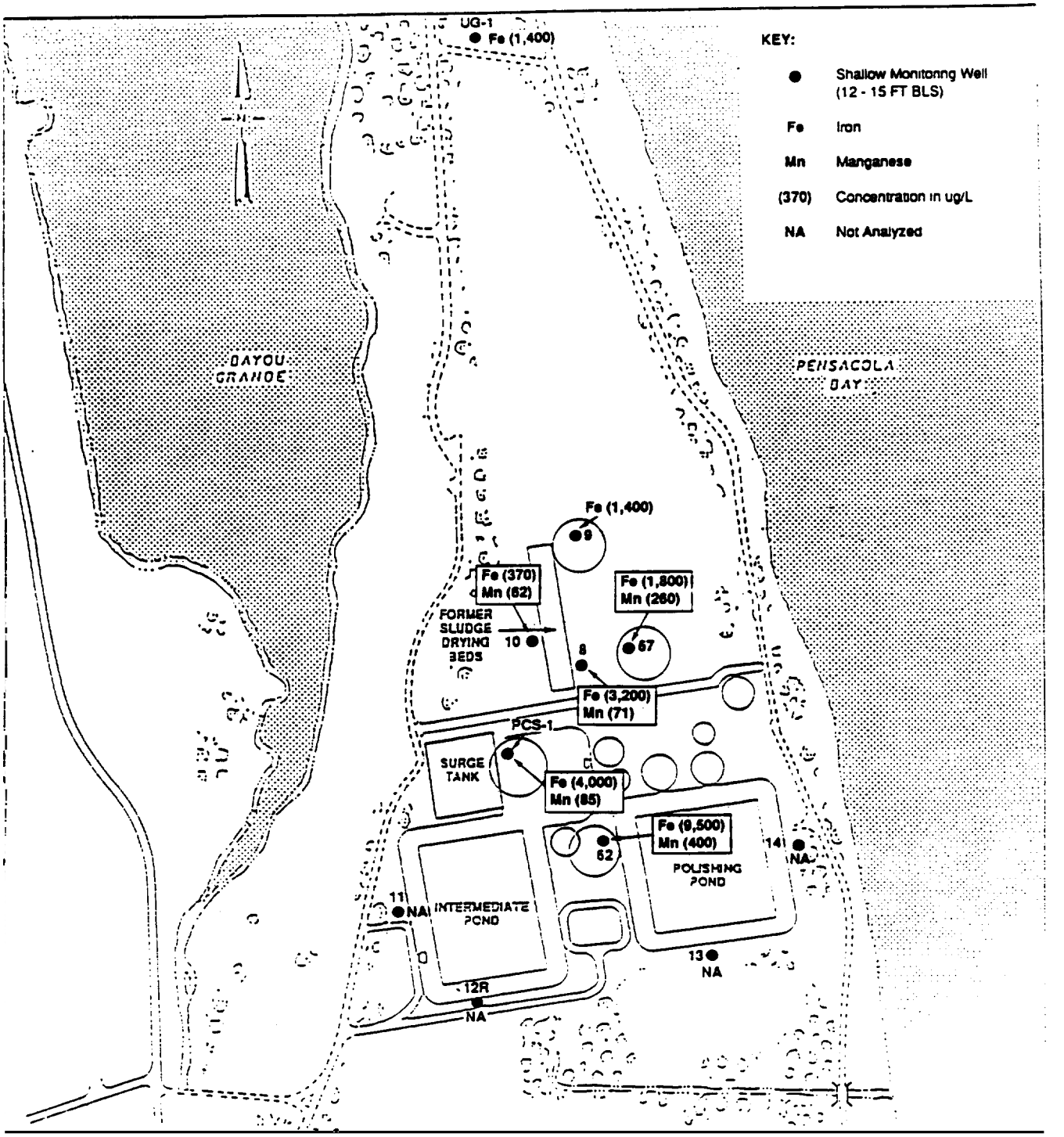
In general, metals, other inorganics (chloride and sulfate), radionuclides, VOCs, and BNAs were found in groundwater samples collected at the IWTP. The sources of these contaminants, unless otherwise noted below, are likely associated with the types of wastes that have been processed at the IWTP (primarily solvents, phenols, and metals).

3.2.1 Metals

Chromium, iron, manganese, and sodium were the only metals detected at concentrations exceeding applicable drinking water standards (see tables 3-3 and 3-4). Figures 3-7, 3-8, and 3-9 show the monitoring well samples which exhibited metals concentrations exceeding these applicable FPDWS or FSDWS for the shallow, intermediate, and deep zone samples, respectively. In general, all three zones exhibit metals contamination primarily in the areas near the former surge pond and sludge drying beds. The samples collected from the intermediate zone exhibit the highest metals concentrations.

Chromium was detected in only two samples at the IWTP, and exceeded the FPDWS of 50 micrograms per liter (µg/L) in only one sample from intermediate zone well GM-66 (sample P32W066). This concentration was 340 µg/L, which is significantly above the FPDWS.

The sample iron concentrations in intermediate well GM-66 ranged from 140 µg/L in sample P32WI001 to 360,000 µg/L in sample P32W066. Fourteen of the 15 samples analyzed for iron had concentrations exceeding the FSDWS of 300 µg/L and included seven shallow zone samples, three intermediate zone samples, and four deep zone samples. Ten of the samples contained iron concentrations greater than 1,000 µg/L.

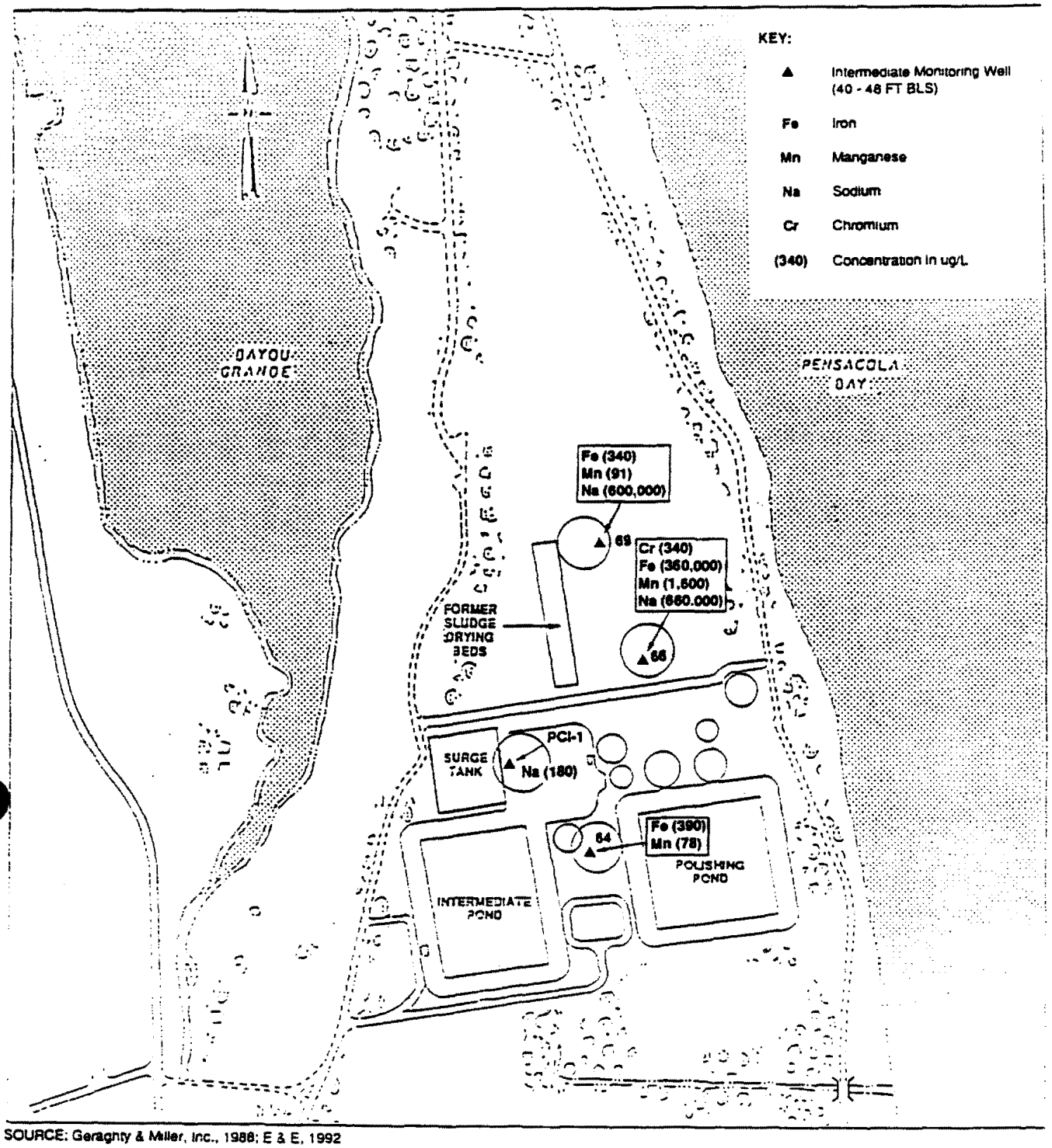


SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 3-7
METALS CONCENTRATIONS EXCEEDING THE FPDWS OR FSDWS IN THE SHALLOW ZONE
NAS PENSACOLA IWTP

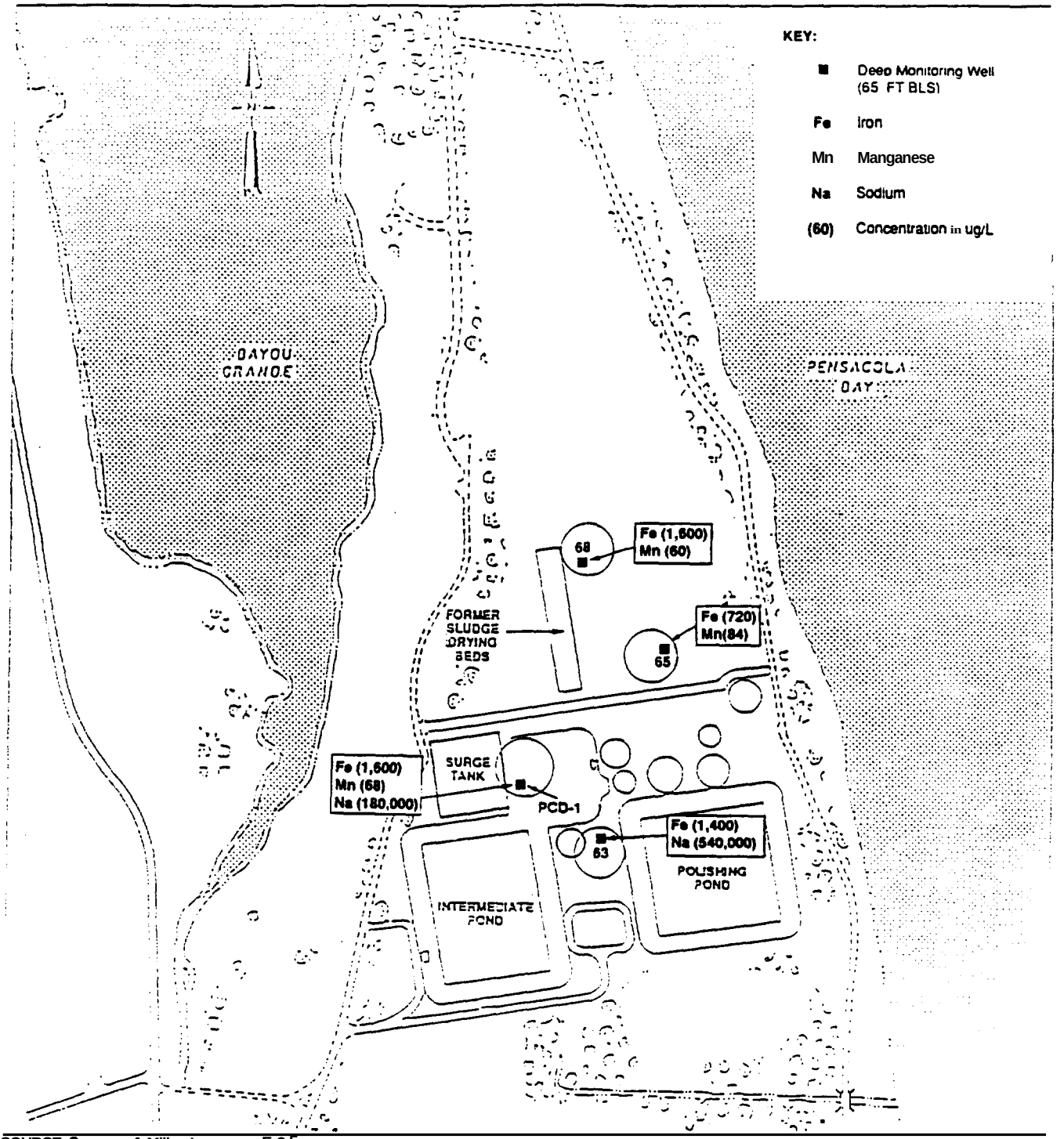


SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 3-8
METALS CONCENTRATIONS EXCEEDING THE FPDWS OR FSDWS IN THE INTERMEDIATE ZONE — NAS PENSACOLA IWTP



SOURCE: Geraghty & Miller, Inc., 1988; E 6 E, 1992

Figure 3-9
METALS CONCENTRATIONS EXCEEDING THE FPDWS OR FSDWS IN THE DEEP ZONE — NAS PENSACOLA IWTP

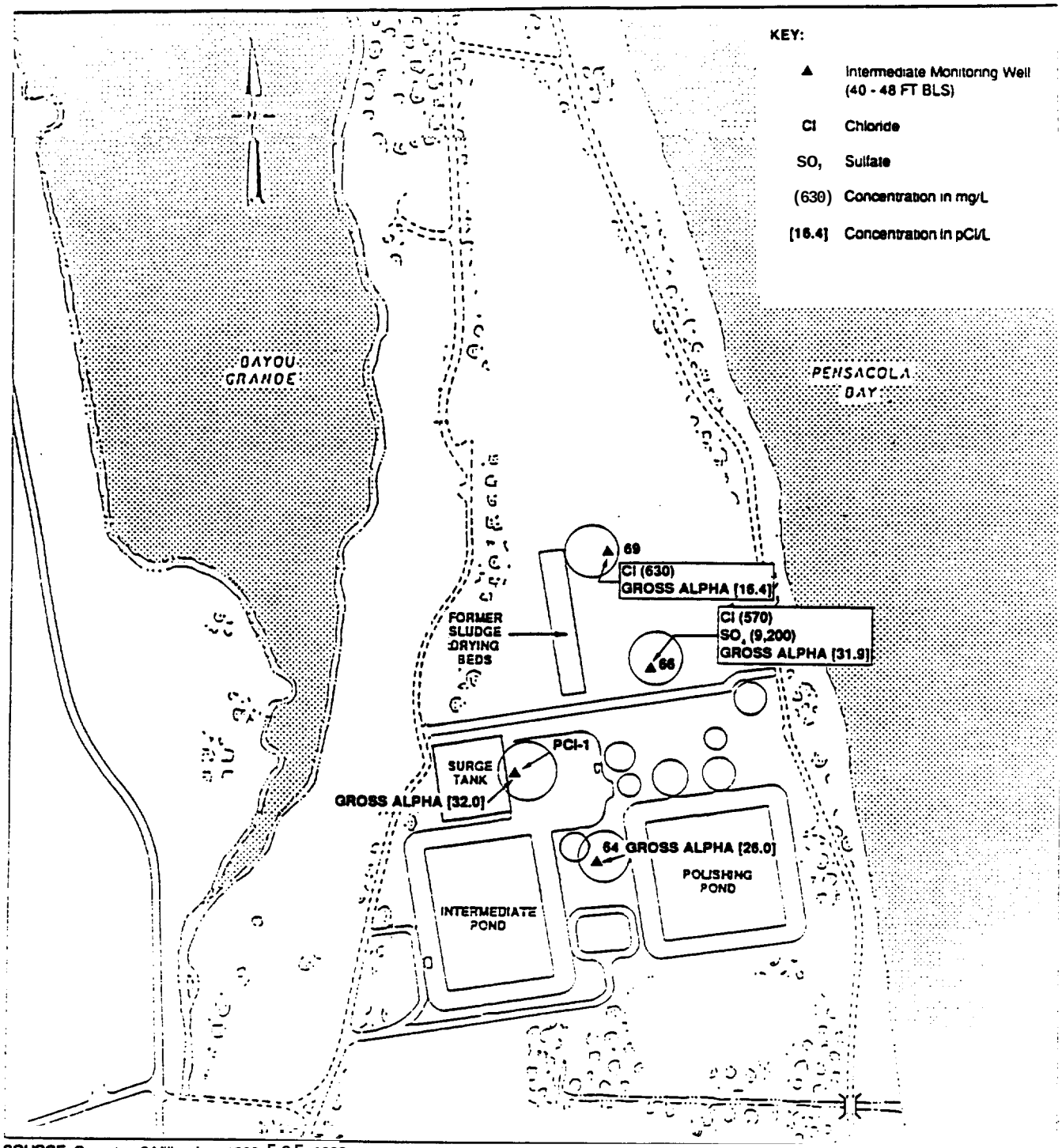
Manganese concentrations ranged from 15 µg/L in sample P32WIOO1 to 1,600 µg/L in sample P32WO66. Manganese concentrations exceeding the FSDUS of 50 µg/L were detected in 11 samples and included five shallow zone, three intermediate zone, and three deep zone samples.

Sodium concentrations ranged from 3.5 mg/L in sample P32WOO9 to 660 mg/L in sample P32WO66. The FPDWS for sodium is 160 mg/L, which was exceeded in five groundwater samples that included three intermediate zone and two deep zone samples. Given that the site is bounded on the east and west by saltwater bodies, the sodium concentrations in the intermediate and deep zones probably reflect an increase in the salinity of the groundwater as the depth increases in the central portion of the site.

It should be noted that, with the exception of GM-66, monitoring wells GM-62 through GM-69 had not been sampled for metals in the four previous quarters. GM-66 was sampled for metals in March of 1991. Metals concentrations in samples from those wells in which a drinking water standard was exceeded in January 1992 were generally lower than in the previous four quarters. The chromium concentration in sample P32WO66, collected from well GM-66 in January 1992, was slightly lower than the previous sample results from this well. Iron concentrations were comparable or slightly higher in five of the samples that exceeded the FSDWS in January 1992, and lower or approximately the same in the other three samples that could be compared to previous metal results. Manganese concentrations were generally lower in the samples that exceeded the FSDWS in January 1992, with the exception of samples P32WOO8 and P32WOO9, which exhibited slightly higher manganese concentrations. Sodium concentrations were all generally the same or slightly lower during the January 1992 sampling event than in the previous four quarters.

3.2.2 Other Inorganics

Only chloride and sulfate were detected in groundwater samples at concentrations that exceeded applicable drinking water standards (see tables 3-3 and 3-4). Figures 3-10 and 3-11 show the moni'toring wells from which samples were collected which exhibited inorganic parameter

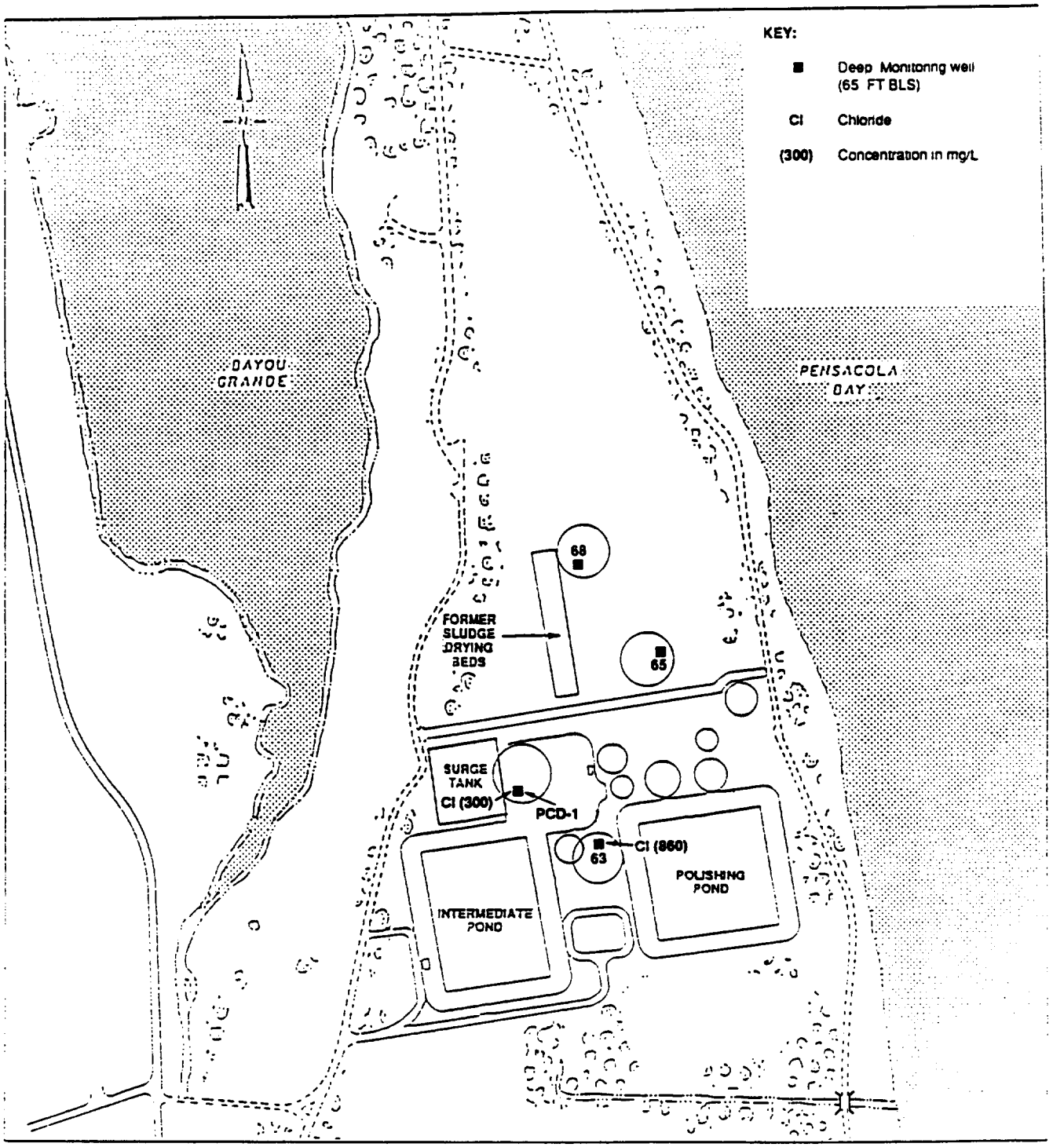


SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

SCALE

0 300 600 FEET

Figure 3-10
OTHER INORGANIC AND RADIOCHEMICAL PARAMETER CONCENTRATIONS EXCEEDING THE FPDWS OR FSDWS IN THE INTERMEDIATE ZONE— NAS PENSACOLA IWTP



SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

Figure 3-11
OTHER INORGANIC PARAMETER CONCENTRATIONS EXCEEDING ME FPDWS OR FSDWS IN THE DEEP ZONE NAS PENSACOLA IWTP

concentrations (including radiochemical parameters) exceeding an applicable FPDWS or FSDWS for the intermediate and deep zone samples, respectively. Samples collected from the intermediate zone exhibited inorganic contamination in the area east of the former sludge drying beds, while samples collected from the deep zone exhibited contamination in the area near the former surge pond. There were no shallow zone samples that exhibited inorganic parameter concentrations exceeding a drinking water standard. Chloride concentrations ranged from 3.8 mg/L in sample P32W009 to 860 mg/L in sample P32W063. Chloride has a FSDWS of 250 mg/L, which was exceeded in four of the groundwater samples which included two intermediate zone samples (P32W066 and P32W069) and two deep zone samples (P32W063 and P32WD001). The presence of chloride in the intermediate and deep zone samples supports the likelihood that the saltwater bodies bounding the site to the east and west may increase the salinity of the groundwater in these deeper zones. Sulfate concentrations ranged from 4.6 mg/L in sample P32W008 to 9,200 mg/L in sample P32W066. Only one sample, collected from intermediate well GM-66 (P32W066; 9,200 mg/L), exhibited a sulfate concentration exceeding the FSDWS of *250* mg/L. The groundwater sample collected from intermediate well GH-69 (P32W069) exhibited a sulfate concentration of *250* mg/L, which is equal to the FSDWS.

The chloride concentration in the sample collected from well GM-69 was only slightly lower in January 1992 and the sample collected from well PCD-1 was only slightly higher in January 1992 that the samples collected from those same wells in the previous four quarters. In January 1992, a sample that exceeded the sulfate drinking water standard was collected from only one well (GM-66), and this sulfate concentration (9,200 mg/L) was significantly higher than the one collected in August 1991 (2.0 mg/L; E & E 1991k). However, August 1991 was the only other event in which a sample from this well was analyzed for sulfate.

3.2.3 Radiochemistry

Gross alpha, gross beta, radium-226, and/or radium-228 were at detectable concentrations in all groundwater samples except P32W010, which was

collected from shallow zone monitoring well GM-10 (see tables 3-3 and 3-4). Figure 3-10 shows the inorganic parameter concentrations (including radiochemical parameters) which exceeded an applicable FPDWS in all four samples collected from the intermediate zone. There were no radiochemical concentrations detected in samples from the shallow or deep zones which exceeded an applicable FPDWS. Detectable gross alpha radioactivity ranged from 1.0+/-1.7 picocuries per liter (pCi/L) in sample P32W001 from well UG-1 to 32.0+/-15.2 in sample P32WI001 from well PCI-1. The FPDWS for gross alpha radioactivity of 15 pCi/L was exceeded in four intermediate zone groundwater samples and included samples P32W064, P32W066, P32W069, and PCI-1.

Radium-226 radioactivity ranged from 0.3+/-0.3 pCi/L and 0.3+/-0.4 pCi/L in shallow zone samples P32W067 and P32W001, respectively, to 20.1+/-2.0 pCi/L in intermediate zone sample P32W066. The FPDWS of 5 pCi/L for radium-226 of 5 pCi/L was exceeded in only one intermediate zone sample: P32W066 at 20.1+/-2.0 pCi/L.

Radiochemical analyses were not conducted on samples from the IWTP during the four previous quarterly monitoring events, and therefore no comparisons can be made between sampling events.

3.2.4 Volatile Organic Compounds (VOCs)

Although detectable levels of VOCs were present in many of the samples analyzed, only benzene, vinyl chloride, 1,1-dichloroethene, and trichloroethene were detected at concentrations exceeding applicable drinking water standards (see tables 3-3 and 3-4). Figures 3-12 and 3-13 show the organic compound concentrations (including VOCs and BNAs) exceeding an applicable FPDWS for the shallow and intermediate zone samples, respectively. In general, VOC concentrations were highest in samples collected from the intermediate zone wells, and particularly in well GM-66, located east of the former sludge drying beds. There were no organic compound concentrations that exceeded an applicable FPDWS in the deep zone samples. Benzene was detected in only one shallow zone sample, P32W008 (300 µg/L), collected from well GM-8 just 'east of the

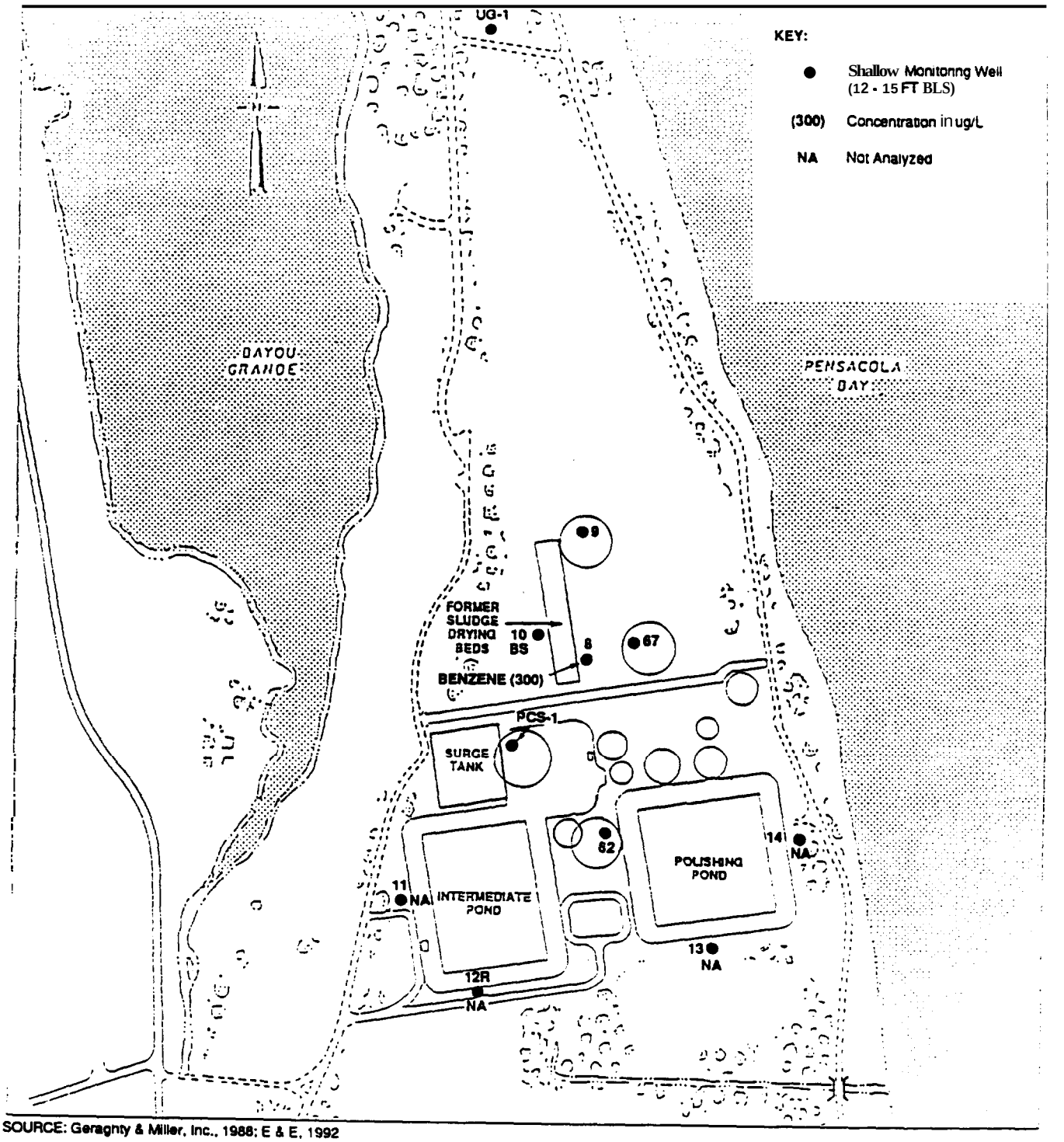
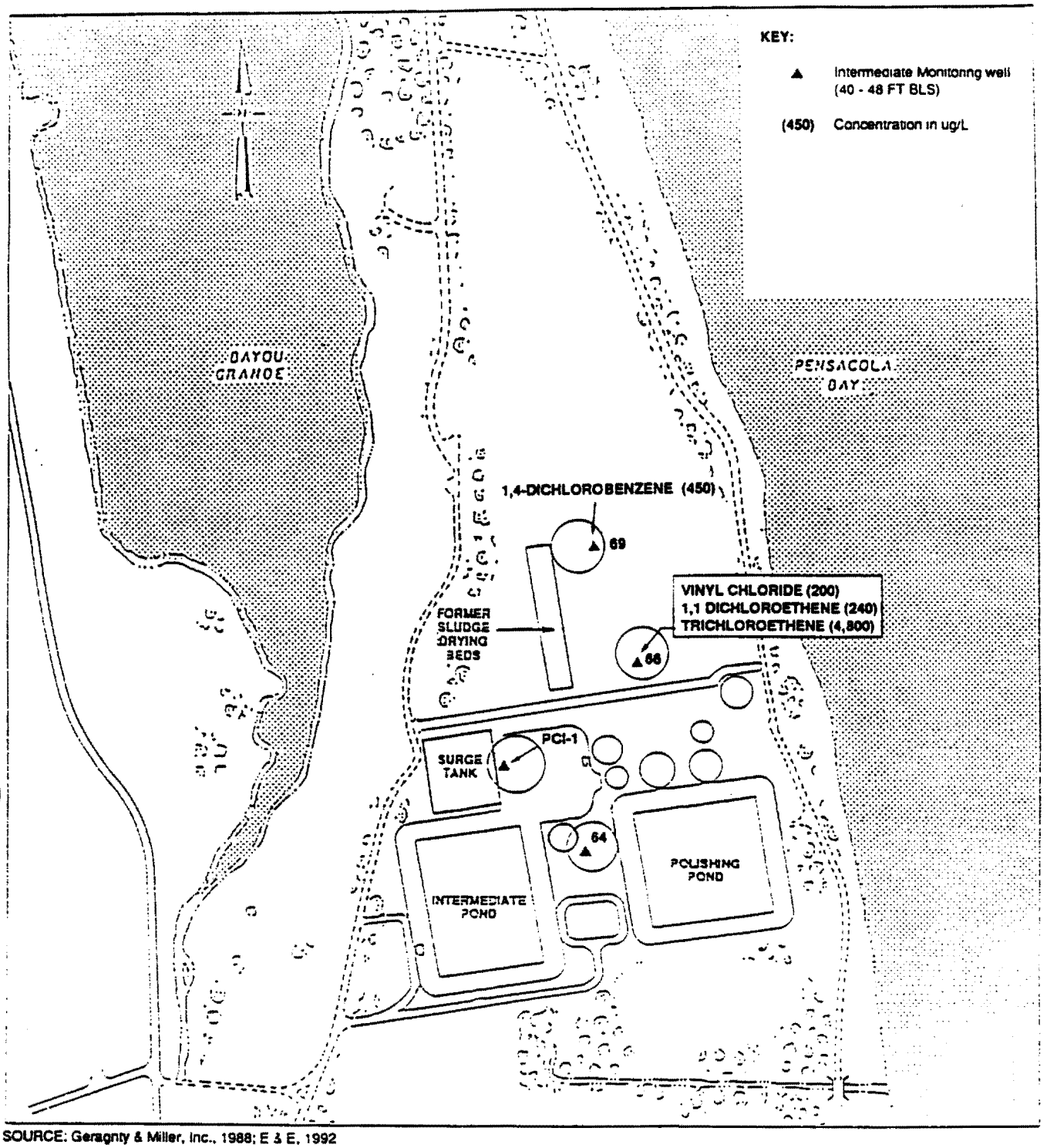


Figure 3-12
ORGANIC COMPOUND CONCENTRATIONS EXCEEDING THE FPDWS IN THE SHALLOW ZONE — NAS PENSACOLA IWTP



SOURCE: Geraghty & Miller, Inc., 1988; E & E, 1992

Figure 3-13
ORGANIC COMPOUND CONCENTRATIONS EXCEEDING THE FPDWS IN THE INTERMEDIATE ZONE — NAS PENSACOLA IWTP

former sludge drying beds, at a level greatly exceeding the FPDWS of 1.0 µg/L. Only one sample (P32W066; 200 µg/L) exhibited a vinyl chloride concentration exceeding the FPDWS of 1.0 µg/L. Groundwater sample P32W066, from intermediate monitoring well GM-66, exhibited 1,1-dichloroethene and trichlorethene concentrations of 240 µg/L and 4,800 µg/L, which are significantly above the applicable FPDWSs of 7 µg/L and 3 µg/L, respectively. The samples collected from shallow zone well GM-8 and intermediate zone well GM-66 exhibited the highest levels of vocs.

VOC concentrations in samples from those wells in which a drinking water standard was exceeded in January 1992 were either slightly lower, higher, or nearly the same as the previous four quarters. The benzene concentration in sample P32W008 in January 1992 is slightly lower than in the previous quarters. Vinyl chloride was not detected in samples collected from well GH-66 in the previous four quarters. 1,1-Dichloroethene was present below the detection limits in three of the four previous quarters and was not detected in the fourth quarter in samples from well GH-66. Trichloroethene concentrations in sample P32W066 are comparable to the last quarter, and are lower than in the two quarters preceding that.

3.2.5 Base-Neutral/Acid Extractables (BNAs)

Although detectable levels of several BNAs were reported in the groundwater samples collected at the IWTP (see tables 3-3 and 3-4), only one has an applicable FPDWS (1,4-dichlorobenzene; 75 µg/L). Figure 3-13 shows the organic compound concentrations (including VOCs and BNAs) of the intermediate zone samples which exceed the FPDWS. There were no shallow or deep zone samples exceeding the FPDWS for 1,4-dichlorobenzene. 1,4-Dichlorobenzene was detected at concentrations exceeding the FPDWS in only one sample, P32W069 (450 µg/L), from well GM-69 located east of the former sludge drying beds. The concentration of 1,4-dichlorobenzene in the sample collected from well GM-69 in January 1992 is nearly the same or slightly higher than in the previous four quarters.

3.2.6 Turbidity and Coliform

The turbidity in the groundwater samples collected and analyzed ranged from 1.7 turbidity units (N.T.U.) to 100 N.T.U., and was highest in the sample from shallow zone well PCS-1 (see tables 3-3 and 3-4). The FPDWS for turbidity of 1 N.T.U. was exceeded in all groundwater samples collected at the IWTP. Turbidity has not been analyzed in the groundwater samples in the previous four quarters; thus, no comparisons with the four previous sampling events can be made.

Only two samples (P32W001 and P32W064) exhibited detectable coliform levels at 28 and 65 colonies per 100 milliliters (CLY/100), respectively (see tables 3-3 and 3-4). The concentrations in both of these samples exceed the FPDWS for coliform of 1 CLY/100 using the membrane filter technique. Coliform analyses have not been conducted on groundwater samples during the previous four quarters; thus, no comparisons with the four previous sampling events can be made.

3.3 Quality Assurance/Quality Control (QA/QC)

3.3.1 Field QA/QC

Table 3-5 summarizes the analytical results for the field QA/QC samples collected during the January 1992 groundwater sampling activities. The table lists only the parameters that were detected in each sample. The complete analytical reports for the groundwater sampling are presented in Appendix E. Also included in Appendix E is the sample number designation for the QA/QC samples (see Table E-1). The Data Validation Summary (included in Appendix F) further discusses the laboratory QA/QC results for all analyses performed.

The analytical results for all duplicate samples were generally found to be in agreement with the results for the corresponding original samples (see Table 3-5).

Methylene chloride, acetone, and bis(2-ethyhexyl)phthalate were detected at low concentrations in most of the field QA/QC samples. However, these compounds were also detected at similar concentrations in the associated laboratory method blanks. Therefore, their presence can be

Table 3-5

SUMMARY ANALYTICAL RESULTS FOR FIELD QA/QC SAMPLES
(All results im ug/L unless noted)

Compound	Sample No./(Well or Type)					
	P32W008 (GI¶-8)	P32W008D[a] (GM-8)	P32W010 (GM-10)	P32W010D[b] (GI¶-10)	P32WTB01[c] (Trip Blank 1)	P32WTB02[c] (Trip Blank 2)
Barium	78	78	76	76	NA	NA
Cadmium	5.1	5.4	--	--	NA	NA
Chromium	11	14	--	--	NA	NA
Iron	3,200	3,200	370	420	NA	NA
Manganese	71	73	62	60	NA	NA
Sodium (mg/L)	9.8	10	6.0	5.8	NA	NA
Zinc	18	26	--	--	NA	NA
Chloride (mg/L)	24	24	11	10	NA	NA
Sulfate (mg/L)	4.6	4.9	12	12	NA	NA
Cyanide (mg/L)	0.052	0.019	0.025	0.030	NA	NA
Fluoride (mg/L)	0.34	0.34	0.21	0.20	NA	NA
Methylene Chloride	14(B)	17(B)	(L,B)	17(B)	(L,B)	(L,B)
1,1-Dichloroethane	6.0	7.0	--	--	--	--
Total-1,2-Dichloroethene	(L)	--	--	--	--	--
Benzene	300	320	--	--	--	--
Toluene	20	20	--	--	--	--
Ethylbenzene	(L)	(L)	--	--	--	--
Total Xylenes	7.0	7.0	--	--	--	--
Chlorobenzene	8,200(X)	8,200(X)	--	--	--	--
Acotone	46(B)	36(B)	18(B)	18(B)	36(B)	14(B)
Carbon Disulfide	--	(L,A)	21(A)	5.0(A)	10(A)	21(A)
2-Butanone	--	--	--	--	38	--
Vinyl Chloride	(L)	--	--	--	--	--
1.3-Dichlorobenrono	58	68	--	--	NA	NA
1,4-Dichlorobenzene	44	50	--	--	NA	NA
1,2-Dichlorobenzene	16	18	--	--	NA	NA
Naphthalene	47	49	--	--	NA	NA
Bis(2-Ethylhexyl)Phthalate	(L,B)	(L,B)	--	(L,B)	NA	NA
2-Chlocophonol	(L)	(L)	--	--	NA	NA
2-Methylnaphthalene	--	(L)	--	--	NA	NA

14[NASP]UH9000:T0491/1433/17

Key at end of table.

Table 3-5 (Coat.)

Compound	Sample No.				
	P32WRB01 (Rinsate Blank 1)	P32WRB02 (Rinsate Blank 2)	P32WRB03 (Rinsate Blank 3)	P32WFB01 (Field Blank 1)	P32WPB01 (Preser-vative Blank 1)
Barium	--	--	--	21	--
Iron	--	--	280	--	--
Sodium (mg/L)	0.83	--	--	1.4	--
Zinc	--	--	--	38	--
Chloride (mg/L)	--	--	--	2.0	NA
Fluoride (mg/L)	--	--	--	0.78	NA
Nitrate (mg/L)	--	--	--	0.2	NA
Methylene Chloride	18(B)	6.0(B)	(L,B)	6.0(B)	(L,B)
Chlorobenzene	(L)	--	--	--	--
Acetone	--	28(B)	14(B)	43(B)	30(B)
Carbon Disulfide	(L,A)	14(A)	20(A)	26(A)	30(A)
1,2-Dichloropropane	--	--	--	(L)	--
2-Butanone	--	32	24	65	36
Bis(2-Ethylhexyl)phthalate	--	--	(L,B)	--	NA
Gross Alpha	0.8+/-0.6	0.3+/-0.6	0.7+/-0.9	--	NA
Gross Beta	1.8+/-1.8	2.9+/-1.9	1.1+/-1.3	8.0+/-2.2	NA
Radium-226	--	--	--	0.4+/-0.5	NA
Radium-228	0.3+/-0.6	--	0.3+/-0.7	--	NA

14[NASP]UH9000:T0491/1483/17

Key :

[a]Duplicate sample of P32W008.
[b]Duplicate sample of P32W010.
[c]Analyzed for VOCs only.

8-Compound also present in method blank.
L-Compound present below detection limit.
X-Exceeds calibration limit within linear range.
A-Phenoaenon of methodology.
NA-Analysis not performed.
(--) indicates compound not detected.

attributed to laboratory-derived sources. Relatively low concentrations of carbon disulfide were detected in all field QA/QC samples. The occurrence of this compound in samples which are acid-preserved is a common phenomenon of the laboratory methodology (see the Data Validation Summary-Appendix F).

Relatively low concentrations of one or more metals (barium, iron, sodium, and zinc) and 2-butanone were detected in two of the three rinsate blanks and the field blank. 2-Butanone was also detected in the preservative blank and one trip blank, and chlorobenzene was detected in one rinsate blank at a level below the detection limit. In addition, relatively low concentrations of chloride, fluoride, and nitrate were detected in the field blank only (see Table 3-5). The origin of these analytes is not known, but the relatively low concentrations at which they were detected can be considered insignificant, and their presence in the field blank should not invalidate the sample analytical data for those parameters.

3.3.2 Laboratory QA/QC

Methylene chloride, acetone, and bis(2-ethyhexyl) phthalate were detected in the laboratory method blanks. These compounds are attributable to laboratory-derived contamination.

4. CORRECTIVE ACTION PROGRAM

4.1 RECOVERY SYSTEM STATUS

In 1986, G & M implemented a Corrective Action Program at the IWTP to comply with the specific conditions in the FDER temporary RCRA permit No. HT17-68087 (FDER 1985). The Corrective Action Program involved the installation of a pilot system consisting of seven recovery wells in the surficial zone of the Sand-and-Gravel Aquifer to recover contaminated groundwater associated with the former surge pond and former sludge drying beds at the IWTP. The system design involved the in-line spacing of recovery wells that, when in operation, would create a composite cone of depression in the shallow groundwater that would maximize capture of the contaminant plume and minimize the potential for inducing saltwater intrusion. The recovery wells were piped together so that maintenance and monitoring of the system was accomplished at four separate pump stations (RW1, 2, and 3; RW4 and 6; RW5; and RW7) each of which was equipped with two centrifugal pumps (primary and back-up). Operation of the pilot groundwater recovery system began in February 1987.

Since the start-up of the recovery system, some problems associated with the maintenance of the recovery pumps have occurred. Typically, excessive drawdown in the recovery wells induced loss of prime in the recovery pumps, ultimately resulting in the failure of the pump. Between July 1990 and November 1991, the recovery system was inoperative due to maintenance problems associated with the recovery system pumps. Beginning in November 1991, repairs were made to the recovery well system. These repairs included replacing all eight centrifugal recovery pumps at the four pump stations and installing drawdown protectors in the recovery wells. The drawdown protectors shut off the recovery pumps if the water levels in the recovery wells fall below the pump intake.

At the time of sampling (January 1992), pump stations RW4 and 6, RW5, and RW7 were operable. Pump stations RW1, 2, and 3 was brought into operation shortly thereafter, in mid-February 1992. Currently, all pump stations are operable.

Operation and maintenance of the recovery system is currently conducted on a weekly basis. Since the repair and reactivation of the system in November 1991 through January 1992 (the end of the sampling period covered in this report), approximately 2,016,259 gallons of groundwater were recovered and pumped into the treatment system at the IWTP. Table 4-1 presents the total weekly flow from each of the pump stations. Generally, the only notable problem to date is that the intake valve in recovery well RW5 becomes periodically clogged with a "limy" substance and has to be cleaned and reprimed weekly. No other problems are currently affecting the recovery system.

4.2 EFFECTIVENESS OF THE CORRECTIVE ACTION PROGRAM

The results of the January 1992 sampling activities were compared to the results of the four previous sampling events (E & E 1991h, 1991i, 1991k, and 1992b). Only the wells from which samples exceeded a FPDWS or FSDWS during the January 1992 sampling event were evaluated. As stated in Section 3.2, the recovery system was inoperable during the previous four sampling events, but has been operable to some degree since approximately the last week of November 1991. The following comparative conclusions have been made:

- Metals concentrations in January 1992 were generally lower than in the previous four quarters' sampling events. In a few cases, the concentrations are slightly higher or approximately the same;
- Other inorganic compound concentrations were nearly the same (chloride) or significantly higher (sulfate) than in the previous four sampling events;
- Radiochemical analyses were not conducted on samples from the IWTP during the previous four quarters, and therefore no comparisons can be made between sampling events;

Table 4-1

SUMMARY OF IWTP RECOVERY WELL PUMPING DATA
NAS PENSACOLA

Pump Station	Date Inspected	Total Flow (Gallons)	Cumulative Weekly Flow (Gallons)
RW4, 6	11/27/91	0	
RW5	11/27/91	0	
RW7	11/27/91	0	0
RW4, 6	12/05/91	126,400	
RW5	12/05/91	36,000	
RW7	12/05/91	106,360	268,760
RW4, 6	12/11/91	05,055	
RW5	12/11/91	50,400[a]	
RW7	12/11/91	171,210	306,665
RW4, 6	12/21/91	174,240	
RW5	12/21/91	50,400'	
mi7	12/21/91	281,120	505,760
RW4, 6	12/26/91	79,200	
RW5	12/26/91	50,400	
RW7	12/26/91	111,400	241,000
RW4, 6	1/2/92	110,880	
RW5	1/2/92	0[b]	
RW7	1/2/92	11,400	122,280
RW4, 6	1/5/92	47,520	
RW5	1/5/92	21,600	
RW7	1/5/92	7,221	76,344
RW4, 6	1/16/92	113,140	
RW5	1/16/92	18,140	
RW7	1/16/92	78,140	209,420
RW4, 6	1/23/92	82,120	
RW5	1/23/92	3,720	
RW7	1/23/92	54,110	139,950
RW4, 6	1/31/92	80,780	
RW5	1/31/92	8,770	
RW7	1/31/92	56,530	146,080
		Total	2,016,259

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Key:

[a] No flowmeter was on RW5. The total flow was estimated based on a previously measured average flow rate of 5 gallons per minute.
[b] Puap station was inoperable due to cloggmd suction pipe.

- VOC concentrations in January were either slightly lower, higher, or approximately the same as those sample concentrations from the previous four quarters;

- BNA concentrations (of 1,4-dichlorobenzene only) were approximately the same or slightly higher; and

- Turbidity and coliform analyses were not performed on samples during the previous four quarters and therefore no comparisions can be made between sampling events.

There is no obvious trend in the effectiveness of the treatment system for the last four to five quarters. The lack of a trend may be due to the short period of time in which the recovery system has been operable. Additionally, water level measurements in the shallow zone do not indicate a cone of depression in the water levels while the system is operating. Since the initial start up of the recovery system in 1986, however, contaminant levels have decreased significantly in most wells. This is likely the result of the effectiveness of the recovery system as well as the natural biodegradation of organic compounds, the migration of contaminants, and the removal of the primary sources of contamination (the former surge pond and sludge drying beds). Groundwater contamination appears to be primarily in the intermediate zone and, to a lesser extent, in the shallow zone. In order to adequately characterize and delineate the full extent of groundwater contamination, a full-scale Remedial Investigation/Feasibility Study (RI/FS) will be conducted at the site as part of the Naval Installation Restoration Program (see the RI/FS Group 0 Work Plan; E & E, 1992a).

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6. FLORIDA PROFESSIONAL GEOLOGIST SEAL

I hereby affix my seal to the Semiannual Report on Groundwater Monitoring Wastewater Treatment Facility, located at the Naval Air Station, Pensacola, Florida, in accordance with Chapter 492 of the Florida Statutes and applicable rules and regulations developed pursuant thereto:

Name:	Brian E. Caldwell
License Number:	P.G. No. 1330
State:	Florida
Expiration Date:	July 31, 1994

Brian E. Caldwell

Date

APPENDIX A

FDER FORM AND SPECIFIC CONDITION OF RCRA PERMIT

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHWEST DISTRICT
160 GOVERNMENTAL CENTER
PENSACOLA, FLORIDA 32501-5794

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
ROBERT V KRIEGEL
DISTRICT MANAGER

QUARTERLY REPORT ON GROUND WATER MONITORING
Rule 17-4.245(6)(k)2.

GMS # 1017F00625 DATE March 1992

DER PERMIT # HF17-170951

U.S. Navy Public Works - Storage Surface Impoundment Closure
Installation Name

NAS Pensacola | Pensacola | Florida 32508 | Escambia
Address | City | State Zip | County

Owner or Authorized Representative's Name | Title

Method of Discharge N/A

Type of Industry Military

Report for Period 11/21/91 (date) to 1/31/92 (date)

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets oescribing any changes in the background water ouality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to aula 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new raoort stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site bouncary.

CERTIFICATION

I certify under penalty of-law tnat I have personally examined and am familiar with the information submitted in this document and all attachments and tnat, baaed on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware tnat there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner or Authorized Representative's Signature | Date

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # _____ Sample Date _____

Monitoring Well # _____ Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Well Name _____

Clamsification of Groundwater _____

Well Developed* Prior to Sample Collection (Yes/No) _____ Ground Water Elevation (above MSL) _____ ft

STORE 1 Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser-vatives Added

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

3200070

1. A description of cause of the noncompliance.

2. 'If not corrected, the expected time of correction and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

(c) Report8 of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule shall be submitted no later than 14 days after each schedule date.

(d) All reports OL information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

PART I - STANDARD REQUIREMENTS:

1. Two submittals in. response to these permit conditions shall be submitted to:

Federal Facilities Coordinator
Bureau of Waste Cleanup
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

One submittal in response to these permit conditions shall be, submitted to:

District Manager
Department of Environmental Regulation
Northwest District Office
160 Governmental Center
Pensacola, Florida 32501-5794

one submittal in response to these permit condition8 shall be submitted to:

Mr. James H. Scarbrough, P.E., Chief
Waste Management Division
U.S. Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30365

2. All documents submitted pursuant to the conditions of this permit shall be accompanied by a cover letter stating the name and date of the document submitted, the number(s) of the Specific Condition(s) affected, and the

permit number and project name of the permit involved. All submittals modifying the approved Post-closure Plan shall be certified by the owner and operator and signed, sealed and certified by a professional engineer registered in the State of Florida except when exempted in accordance with 17-4.050 and 17-730.220(5), FAC.

3. The Department may modify, revoke, reissue, or terminate for cause this permit. The filing of a request for a permit modification, revocation, reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay applicability or enforceability of any permit condition. The permittee may submit any subsequent revisions to the Department for approval. Should these revisions constitute a major modification to the permit, the permittee shall meet the requirements of 17-730.290, FAC.

4. Prior to 135 calendar days before the expiration of this permit, the permittee shall submit a complete application for renewal of the permit on forms and in a manner prescribed by the Department. unless post-closure ham been completed and certified in accordance with Specific Condition 11.6 and accepted by the Department [17-730.300(1), FAC].

5. The Department of Environmental Regulation's 24-hour emergency telephone number is 904/488-1320. During normal business hours, the DER District Office may be contacted at 904/436-8300, and the Bureau of Waste Cleanup may be contacted at 904/488-0190.

6. The permittee shall keep a written operating record at the facility which includes:

   a. A summary report and details of incidents that require implementation of the contingency pian.

   b. The results of inspections.

   c. Post-closure plan.

   d. Monitoring, testing or analytical data where required by 40 CFR Part 264 Subparts F and G.

These records must be maintained at tha facility until completion and certification of post-closure [40 CFR Parts 261.73 and .74].

3200071

7. Tho permittee shall comply with the applicable portions of 40 CFR Part. 260 through- 268 and those conditions required by 40 CFR Part 270.30 and 270.31 (17-730.280, FAC).

8. The permittee shall revise "Part I - General" of the Application for a Hazardous Waste Facility Permit (17-730.900(2), FAC) within thirty (30) calendar days of any changes in the Part I. Tho revised "Part I - General" must be submitted to the Department within thirty (30) calendar days of such changes.

9. If 8t any time the permittee determines that actions undertaken a8 put of associated monitoring program no longer satisfy tho requirements ret forth in this permit, the permitttee shall, within seven (7) calendar days, notify the Department of this finding. If the Department determines that a major modification of the permit is required, 'the permittee shall, within sixty (60) calendar days, submit an applicatfon for a permit modification in accordance with 17-730.290 FAC, to make any appropriate changes to the permit.

PART II - POST-CLOSURE PROGRAM:

1. Upon the effective date of this poet-closure permit, the permittee shall:

   a. Continue post-closure care in accordance with 40 CFR Part 264.117(a). The post-closure care period began October 24, 1990 and shall continue fur thirty years after that date.

   b. Maintain compliance with security provisions of 40 CFR Part 264.14 throughout the post-clcsure care period to prevent the unauthorized entry of persons or livestock onto the facility (40 CFR Bar-264.117(b)].

   c. Never disturb the final cover or any other component8 of the associated structures unless previous Department approval has been provided pursuant to 40 CFR Part 264.117(c).

   d. Ensure that all post-closure care activities be in accordance with the revised February 28, 1991 Post-closure Plan required by 40 CFR Part 264.118 (40 CFR Part 264.117(d)].

2. The permittee shall inspect the Waste Management Area and monitoring well system on a quarterly basis and after any substantial rainfall event. The permittee shall maintain an inspection log taken to record findings and remedial action taken in maintaining the final cover, containment

structures, groundwater monitoring equipment, corrective action, control of vegetative growth, surveying benchmarks and security devices. Each item to be inspected shall be addressed and space provided to describe any defects and follow-up action to ensure repair. The inspector's name, and inspection date and time shall be included [40 CFR Part 264.118(b)].

3. The permittee shall keep a copy of the Post-closure Plan and all revisions to the plan at the facility until post-closure care is completed and certified in accordance with 40 CFR Part 264.120 [40 CFR Part 264.118(c)].

4. Any proposed amendments to the Post-closure Plan shall be submitted to the Department for review and approval (40 CFR Put 264.118(d)].

5. The permittee shall comply with the requirements of 40 CFR Part 264.119(b) (Notice in deed to property). The notice shall be submitted to the Department within sixty *(60)* days of permit issuance.

6. Within sixty (60) days from the completion of the established post-closure *care* period, the permittee shall submit to the Department by certified mail or hand delivery, a letter signed by the permittee and an independent professional engineer registered in the State of Florida, except when exempted in accordance with 17-4.050 and 17-730.220(5), FAC, stating that the post-closure *care* for the hazardous waste disposal unit was performed in accordance with the specifications in the approved Post-closure Plan [40 CFR Part 264.120].

7. The permittee shall comply with a11 applicable portions of 40 CFR Parts 260 through 26a until released from post-closure *care* requirements.

PART III - GROUNDWATER MONITORING PROGRAM:

1. The Waste Management Area shall be imaginary lines circumscribing the Sludge Drying Beds and Surge Pond designated on Attachment A (40 CFR Part 264.95(b)(1) and (2)]. The Point of Compliance shall be the northern, western, and eastern boundaries of the Waste Management Area [40 CFR Part 264.95(a)].

2. The background water quality monitoring well for the Waste Management Area shall be We11 OG-1 (Attachment B).

3. The point-of-compliance (POC) wells for the Sludge Drying Beds and Surge Pond shall be PCS-1, PCI-1, PCD-1, GM-8, GM-9, GM-10, GM-68 and GM-69 (Attachment B). If future groundwater monitoring indicates a change in groundwater flow direction within the surficial aquifer, this permit may be modified to require the installation of additional point-of-compliance monitoring wells.

3200072

4. All groundwater sampling shall be conducted in accordance with an approved Quality Assurance Plan (Appendix F-5 of the revised application dated February 28, 1991). If there are any changes in the Groundwater Monitoring Plan at tho facility, including changes in personnel or contractor, a revised Quality Assurance Project Plan in accordance with 17-160.220, FAC, must br submitted to the Department for review within thirty (30) days.

5. The permittee shall sample the background well, all point-of-compliance wells and assessment wells GM-62, GM-63, GM-64, GM-65, GM-66, and GM-67 (Attachment B) in January and July of each year throughout the Compliance Period specified in Specific Condition 12 of this Part. Each of these wells must be sampled for the constituents listed in Specific Conditions 7 and 10 of this Part. In addition, wells GM-11, GM-12R, GM-13 and CW-14 must be sampled for complexed cyanide in January and July of each year throughout the Compliance Period.

6. The permittee shall submit to the Department groundwater monitoring reports that provide analytical data and information requested in Specific Conditions 5, 9, 14, 15 and 18 of this Part and Specific Condition V.2. The groundwater monitoring data from each January sampling event shall be submitted no later than the following April 30 and data from each July sampling event shall be submitted no later than the following October 31. If for any reason the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.

7. The Groundwater Protection Standard (40 CFR Part 264.92) shall be:

Parameters	Concentration Limits	
arsenic	0.05	mg/l
barium	1.0	mg/l
cadmium	0.01	mg/l
total chromium	0.05	mg/l
lead	0.05	mg/l
mercury	0.002	mg/l
selenium	0.01	mg/l
silver	0.05	mg/l
nickel	background	
vanadium	background	
zinc	background	
complexed cyanide	background	
2-chlorophenol	PQL	
2,4-dichlorophenol	PQL	
2,4-dimethylphenol	PQL	
4,6-dinitro-o-cresol	PQL	

2,4-dinitrophenol	PQL
2-nitrophenol	PQL
4-nitrophenol	PQL
p-chloro-m-cresol	PQL
pentachlorophenol	PQL
phenol	PQL
2,4,6-trichlorophenol	PQL
2-methyl phenol	PQL
p-methyl phenol	PQL
methyl ethyl phenol	PQL
dimethyl ethyl phenol	PQL
tetramethyl butyl phenol	PQL
acenaphthene	PQL
acenaphthylene	PQL
anthracene	PQL
benzidine	PQL
benzo(a)anthracene	PQL
benzo(a)pyrene	PQL
3,4-benzofluoranthene	PQL
benzo(ghi)perylene	PQL
bis(2-chloroethoxy)methane	PQL
bis(2-chloroethyl)ether	PQL
bis(2-chloroisopropyl)ether	PQL
bis(2-ethylhexyl)phthalate	PQL
4-bromophenyl phenyl ether	PQL
butylbenzyl phthalate	PQL
2-chloronaphthalene	PQL
4-chlorophenyl phenyl ether	PQL
chrysene	PQL
dibenzo(a,h)anthracene	PQL
1,2-dichlorobenzene	PQL
1,3-dichlorobenzene	PQL
1,4-dichlorobenzene	PQL
3,3-dichlorobenzidine	PQL
1,2-dichloropropane	PQL
1,2-dichloropropylene	PQL
ethylbenzene	PQL
methyl bromide	PQL
methyl chloride	PQL
methyl ethyl ketone	PQL
methylene chloride	PQL
1,1,2,2-tetrachloroethane	PQL
tetrachloroethylene	PQL
toluene	PQL
1,2-trans-dichloroethylene	PQL

3200073

1,1,1-trichloroethane	PQL
1,1,2-trichloroethane	PQL
trichloroethylmo	PQL
trichlorofluoromethane	PQL
vinyl chloride	PQL
benzyl alcohol	PQL
methyl dihydro indene	PQL
tetramethylbenzene	PQL
"alkylated" benzene	PQL
2-hexanone	PQL
trimethy1 benzene	PQL
hydroxymethyl pentanone	PQL
diethylphthalate	PQL
dimethylphthalate	PQL
di-n-butyl phthalate	PQL
2,4-dinitrotoluene	PQL
di-n-octy1-phthalate	PQL
1,2-diphenylhydrazine	PQL
fluoranthene	PQL
hexachlorobenzene	PQL
hexachlorobutadiene	PQL
hexachlorocyclopentadiene	PQL
hexachloroethane	PQL
indeno(1,2,3-cd)pyrene	PQL
isophorone	PQL
methyl napthalene	PQL
2-methyl naphthalene	PQL
naphthalene	PQL
nitrobenzene	PQL
n-nitrosodimethylamine	PQL
n-nitrosodi-n-propylamine	PQL
n-nitrosodiphenylamide	PQL
phenanthrene	PQL
pyrene	PQL
1,2,4-trichlorobenzene	PQL
acrolein	PQL
acrylonitrile	PQL
benzene	PQL
bis(chloromethyl) ether	PQL
bromoform	PQL
carbon tetrachloride	PQL
chlorobenzene	PQL
chlorodibromomethane	PQL
chloroethane	PQL
2-chloroethylvinyl ether	PQL
chloroform	PQL

dichlorobromomethane	PQL
dichlorodifluoromethane	PQL
1,1-dichloroethane	PQL
1,2-dichloroethane	PQL
1,1-dichloroethylene	PQL

PQL = practical quantification limit (see Specific Condition 8 of this Part); mg/l = milligrams per liter; background is defined in Specific Condition 9 of this Part.

8. The Practical Quantification Limit (PQL) shall be the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. PQLs must not routinely exceed maximum contaminant levels of 17-550.310 and .320, FAC.

9. Background concentrations shall be established through sampling at the upgradient background well each time groundwater is sampled at the Point of Compliance. Background concentration for any given constituent for the purpose of this permit (see Specific Condition 7 of this Part) shall be defined as the mean of thm four most recent analytical results of that constituent from well UG-1.

10. The following additional constituents shall be sampled on a semiannual basis:

turbidity	specific conductance
sodium	chloride
total coliform	copper
nitrate (as N)	iron
radium 226	fluoride
radium 228	manganese
gross alpha	sulfate
gross beta	pH

11. The permittee may apply for Alternate Concentration Limits (ACLs) for any constituent included with Specific Condition 7 of this Part in accordance with 40 CFR Part 264.94. In accordance with 40 CFR Part 264.94(b), the Department shall establish Alternate Concentration Limits (ACLs) upon approval of the ACL demonstration.

12. The Compliance Period (40 CFR Part 264.96) for the Waste Management Area began August 20, 1984 and shall be 19 years long. If the permittee is engaged in a corrective action program at the end of the Compliance Period, the Compliance Period is extended until the permittee can demonstrate that the Groundwater Protection Standard (40 CFR Put 264.92) specified in Specific Condition 7 of this Part has not been exceeded for a period of three consecutive years (40 CFR Part 264.96(c)).

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13. Groundwater elevations for all existing monitoring wells must be measured in January, April, July and October of each year. All groundwater elevations must bo measured within the same eight hour period and must be measured prior to well purging whenever samples are to be taken. The January groundwater elevation data must be submitted no later than the following April 30; the April groundwater elevation data must be submitted no later than the following July 31; the July groundwater elevation data must be submitted no later than the following October 31; and the October groundwater elevation data must be submitted no later than January 31 of the following yeu. In addition, in January and July of each year, the total depth of a11 wells included in the groundwater monitoring program (Specific Conditions 2, 3 and 5 of this Part) must be determined by physical measurement prior to sampling to determine if siltation is occurring and to calculate the casing volume to be purged. If infilling or siltation is determined, then discovery and other corrective action taken shall be reported to the Department within fifteen (15) days.

14. The permittee shall notify the Department in writing if any damage to the groundwater monitoring walls occurs. Damage subject to this notification will be that requiring repair, not maintenance. Notification describing corrective action taken shall be given after damage has been corrected, or within fifteen (15) days from the date the damage uae detected, whichever occurs first. Description of corrective action 'taken shall be submitted in writing to the Department, in any case, within fifteen (15) days of completion date.

15. The horizontal groundwater flow rates and directions shall be determined for each affected aquifer quarterly. This information shall be submitted to the Department with the reports required by Specific Condition 5. of this Pat,.

16. The permitttee shall provide the Department with opportunities to observe groundwater sampling and split samples by providing notification at least ten (10) days prior to each groundwater sampling event.

17. Any proposed modifications to the Groundwater Monitoring Plan must be submittad to the Department for review. Upon Department approval, the permit shall be modified in accordance with 17-730.290, FAC.

18. If wells are to be abandoned, they shall be abandoned in accordance with 17-532 .500 (4), FAC.

PART IV - POST-CLOSURE ASSESSMENT:

1. Additional assessment of contaminated groundwater must continue in conjunction with the CERCLA Remedial Investigation/Feasibility Study.

APPENDIX B

PARAMETER MONITORING REPORT FORMS AND ANALYTICAL METHOD SUMMARIES

PARAMETER	METHOD
Chloride	Method 325.2 - "Methods for the Chemical Analysis of Water and Wastes", EPA-600/ 4-79-020, March 1983.
Cyanide-complex	Hethod 335.2 - "Methods for the Chemical Analysis of Water and Wastes", EPA-600/ 4-79-020, March 1983.
Fluoride Total	Method 340.2 - "Methods for the Chemical Analysis of Water and Wastes", EPA-600/ 4-79-020, March 1983.
Sulfate	Method 375.2 - "Methods for the Chemical Analysis of Water and Wastes", EPA-600/ 4-79-020, March 1983.
Mercury	Method 7470 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.
Arsenic	Method 7060 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.
Lead	Method 7421 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.
Selenium	Method 7740 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.
Barium Cadmium Chromium Total Copper Iron Manganese Nickel Silver Sodium Vanadium Zinc	Method 6010 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.

ANALYTICAL REFERENCE SUMMARY 9200.209

PARAMETER	METHOD
Purgeablcs	Method 8240 - "Test Methods for Evaluating Solid Paste, Physical/Chemical Methods", SW-846, Third Edition, U.S. BPA, 1986.
Acid Phenol	Method 8270 - "Test Methods for Evaluating Solid Paste, Physical/Chemical Methods", SW-846, Third Edition, U.S. BPA, 1986.
Base Neutral	Method 8270 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

PARAMETER	METHOD
Chloride	Method 9251 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Cyanide-complex	Method 9012 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Fluoride Total	Method 340.2 - "Methods for the Chemical Analysis of Water and Wastes", EPA-600/ 4-79-020, March 1983.
Sulfate	Method 9036 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Mercury	Method 7470 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.
Arsenic	Method 7060 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Lead	Method 7421 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Selenium	Method 7740 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Barium Cadmium Chromium Total Copper Iron Manganese Nickel Silver Sodium Vanadium Zinc	Method 6010 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.

PARAMETER	METHOD
Purgeables	Method 8240 - Test Methods for €valuating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Acid Phenol	Method 8270 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.
Base Neutral	Method 8270 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # UG-1

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow Background

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 1.53 ft

STORET Code	Parameter Monitoted	Sampling Method	EPA Analysis method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	5.4		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	220	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCS	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

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PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GH-8

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallov

Classification of Groundvater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundvater Elevation (above MSL) 1.49 ft **

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.0		Unfiltcred	
	Specific Conductance	Teflon bailer	120.1	520	umhos/cm	Unfiltcred	
	Inorganics:	Teflon bailer		See attachcd		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

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DER Form 17-1.216(2)

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PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GM-9

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 1.90 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Teflon bailer	150.1	6.3		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	480	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

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PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GM-10

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 2.01 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.5		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	380	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

DER Form 17-1.216(2)

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3200080

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GM-11

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above HSL) 2.25 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.5		Unfiltered	
	Specific Conductance	Teflon bailer	104.3	380	umhos/ cm	Unfiltered	
	Cyanide	Teflon bailer	335.2	See attached		Unfiltered	NaOH

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

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Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GH-12R

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundvater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundvater Elevation (above HSL) 2.49 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	
	pH	Teflon bailer	150.1	6.2		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	420	umhos/cm	Unfiltered	
	Cyanide	Teflon bailer	335.2	See attached		Unfiltered	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

DER Form 17-1.216(2)

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Doc. Num. 18:01

3200081

PARAMETER HONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GH-13R

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 1.95 ft

STORET Code	Parameter Honitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	5.6		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	200	umhos/ cm	Unfiltered	
	Cyanide	Teflon bailer	335.2	See attached		Unfiltered	NaOH

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

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Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-29-92

Monitoring Well # GM-14

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 1.16 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	9.8		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	740	umhos/cm	Unfiltered	
	Cyanide	Teflon bailer	335.2	See attached		Unfiltered	NaOH

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

DER Form 17-1.216(2)

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Doc. Num. 18:0

3200082

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-30-92

Monitoring Well # GM-62

Well Type:

[X] Corrective Action

[ ] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed Prior to Sample Collection (Yes/No)* YES

Groundwater Elevation (above MSL) 2.16 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.2		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	580	umhos/ cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	vocs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017F00625

Sample Date: 01-30-92

Honitoring Well # GH-63

Vell Type:

[X] Corrective Action

[ ] Point-of-Compliance

Vell Name: Deep

Classification of Groundwater G-1

Vell Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above HSL) 1.83 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon Bailer	150.1	6.3		Unfiltered	
	Specific Conductance	Teflon Bailer	120.1	3,800	umhos/ cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfilttred	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfilttred	

*Vell development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:0'

3200083

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-30-92

Honitoring Well # GM-64

Well Type:

[X] Corrective Action

[ ] Point-of-Compliance

Well Name: Intermediate

Classification of Groundwater G-1

Well Developed Prior to Sample Collection (Yes/No) * YES

Groundwater Elevation (above MSL) 2.01 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon Bailer	150.1	6.4		Unfiltered	
	Specific Conductance	Teflon Bailer	120.1	1,500	umhos/ cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-30-92

Honitoring Well # GM-65

Well Type:

[X] Corrective Action

[ ] Point-of-Compliance

Well Name: Deep

Classification of Groundwater G-1

Well Developed Prior to Sample Collection (Yes/No)* YES

Groundwater Elevation (above MSL) 1.82 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Teflon Bailer	150.1	6.3		Unfiltered	
	Specific Conductance	Teflon Bailer	120.1	940	umhos/cm	Unfiltared	
	tnorganics:	Teflon bailer		See attached		Unfiltered	
	Hetals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	vocs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attachcd		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

3200084

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-30-92

Monitoring Well # GM-66

Well Type:

[X] Corrective Action

[ ] Point-of-Compliance

Well Name: Intermediate

Classification of Groundwater G-1

Well Developed Prior to Sample Collection (Yes/No)* YES

Groundwater Elevation (above MSL) 1.37 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.7		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	1,190	umhos/ cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCS	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017F00625

Sample Date: 01-30-92

Monitoring Well # GM-67

Well Type:

[X] Corrective Action

[ ] Point-of-Compliance

Well Name: Shallov

Classification of Groundvater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundvater Elevation (above MSL) 1.74 ft

STORET Code	Parameter Monitored	Sampling Method	BPA Analysis Method	Analysis Result	units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Teflon bailer	150.1	7.1		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	610	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Nun. 18:01

3200085

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-30-92

Monitoring Well # GM-68

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Deep

Classification of Groundvater G-1

Well Developed Prior to Sample Collection (Yes/No)* YES

Groundwater Elevation (above MSL) 1.75 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon Bailer	150.1	6.5		Unfiltered	
	Specific Conductance	Teflon Bailer	120.1	840	umhos/ cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017F00625

Sample Date: 01-30-92

Monitoring Well # GH-69

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Intermediate

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above HSL) 1.47 ft

STORET Code	Parameter Monitored	Sampling Method	KPA Analysis Method	Analysis Result	Units	Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	6.9		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	4,200	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative groundvater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. Num. 18:01

3200086

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date: 01-31-92

Monitoring Well # PCS-1

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Shallow

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 2.00 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	7.2		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	200	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. No. 07:16

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017800625

Sample Date: 01-31-92

Monitoring Well # PCI-1

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Naae: Intermediate

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above MSL) 1.94 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	7.2		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	1440	umhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Hetals		See Table 2-1				HNO_3
	Radio-cheaistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		unfiltered	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. No. 07:16

3200087

PARAMETER MONITORING REPORT

(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 1017100625

Sample Date: 01-31-92

Monitoring Well # PCD-1

Well Type:

[ ] Corrective Action

[X] Point-of-Compliance

Well Name: Deep

Classification of Groundwater G-1

Well Developed* Prior to Sample Collection (Yes/No) YES

Groundwater Elevation (above HSL) 1.88 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Teflon bailer	150.1	7.2		Unfiltered	
	Specific Conductance	Teflon bailer	120.1	1000	mhos/cm	Unfiltered	
	Inorganics:	Teflon bailer		See attached		Unfiltered	
	Metals		See Table 2-1				HNO_3
	Radio-chemistry		See Table 2-1				HNO_3
	Cyanide		335.2				NaOH
	VOCs	Teflon bailer	8240	See attached		Unfiltered	HCl
	BNAs	Teflon bailer	8270	See attached		Unfiltered	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative groundwater sample.

DER Form 17-1.216(2)

Effective January 1, 1983

Doc. No. 07:16

APPENDIX C

CORRECTIVE-ACTION MONITORING WELLS
GROUNDWATER SAMPLING ANALYTICAL RESULTS

Table C-1

GROUNDWATER SAMPLE DESIGNATIONS
CORRECTIVE-ACTION MONITORING WELLS

Sample Location	Sample Designation
Wall GM-62	P32W062
Wall GM-63	P32W063
Well O M 4	P32W064
Well O M S	P32W065
Well *O M 6*	P32W066
Well GM-67	P32W067

Doc. Num. 27:31

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32119 MATRIX: WATER
SAMPLE ID CLIENT: P32W062

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	59		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	9500		50	UG/L
Manganese	(ICP)	400		10	UG/L
Sodium	(ICP)	16000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32120 MATRIX: WATER
SAMPLE ID CLIENT: P32W063

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	23		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1400		50	UG/L
Manganese	(ICP)	44		10	UG/L
Sodium	(ICP)	540000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAHPLE ID LAB :EE-92-32121 MATRIX: WATER
SAHPLE ID CLIENT: P32W064

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	390		50	UG/L
Manganese	(ICP)	78		10	UG/L
Sodium	(ICP)	150000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	6.9		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200091

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAHPLING
SAMPLE ID LAB :EE-92-32122 MATRIX: WATER
SAMPLE ID CLIENT: P32W065

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	720		50	UG/L
Manganese	(ICP)	84		10	UG/L
Sodium	(ICP)	100000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Hercury		ND		0.20	UG/L

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32123 MATRIX: WATER
SAMPLE ID CLIENT: P32W066

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		50	UG/L
Barium	(ICP)	58		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	340		10	UG/L
Copper	(ICP)	27		20	UG/L
Iron	(ICP)	360000		50	UG/L
Manganese	(ICP)	1600		10	UG/L
Sodium	(ICP)	660000		500	UG/L
Nickel	(ICP)	160		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		50	UG/L
Vanadium	(ICP)	430		20	UG/L
Zinc	(ICP)	340		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200092

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32124 MATRIX: WATER
SAMPLE ID CLIENT: P32W067

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1800		50	UG/L
Manganese	(ICP)	260		10	UG/L
Sodium	(ICP)	24000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	14		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32119 MATRIX: WATER
SAMPLE ID CLIENT: P32W062

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromowthane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	17	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chlorocthylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	61	B	10
Carbon Disulfide	PRESENT	LA	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

3200093

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32120 MATRIX: WATER
SAMPLE ID CLIENT: P32W063

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	PRESENT	L	lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Hethylene Chloride	16	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1.2-Dichloropropane	ND		5.0
trans-1.3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	24	B	10
Carbon Disulfide	10	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32121 MATRIX: WATER
SAMPLE ID CLIENT: P32W064

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromorcthane	ND		10
Vinyl Chloride	ND		10
Chloroethanc	ND		10
Methylene Chloride	16	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromoncthane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethcne	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	12		5.0
Ethylbenzene	ND		5.0
Acetone	37	B	10
Carbon Disulfide	6.0	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32122 HATRIX: WATER
SAMPLE ID CLIENT: P32W065

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	16	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	26	B	10
Carbon Disulfide	11	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF HETHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : E€-92-32323 MATRIX: VATER
SAMPLE ID CLIENT: P32W066

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	200		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	240	X	5.0
1,1-Dichloroethane	45		5.0
Total-1,2-Dichloroethene	850	X	5.0
Chloroform	ND		5.0
1,2-Dichloroethane	PRESENT	L	5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	1700	X	5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	PRESENT	L	5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	10		5.0
Chlorobenzene	130		5.0
Ethylbenzene	ND		5.0
Acetone	26	B	10
Carbon Disulfide	95	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Hethyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	10		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT
A = PHENOMENON OF METHODOLOGY

3200095

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAHPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32123 D MATRIX: WATER
SAMPLE ID CLIENT: P32W066

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	PRESENT	L	250
Chloroethane	ND		250
Methylene Chloride	PRESENT	LB	125
1,1-Dichloroethene	240		125
1,1-Dichloroethane	ND		125
Total-1,2-Dichloroethene	940		125
Chloroform	ND		125
1,2-Dichloroethane	ND		125
1,1,1-Trichloroethane	ND		125
Carbon Tetrachloride	ND		125
Bromodichloromethane	ND		125
1,2-Dichloropropane	ND		125
trans-1,3-Dichloropropene	ND		125
Trichloroethene	4800		125
Chlorodibromomethane	ND		125
1,1,2-Trichloroethane	ND		125
Benzene	ND		125
cis-1,3-Dichloropropene	ND		125
2-Chloroethylvinyl Ether	ND		250
Bromoform	ND		125
Tetrachloroethene	ND		125
1,1,2,2-Tetrachloroethane	ND		125
Toluene	ND		125
Chlorobenzene	150		125
Ethylbenzene	ND		125
Acetone	PRESENT	LB	250
Carbon Disulfide	PRESENT	LA	1.25
2-Butanone	ND		250
Vinyl Acetate	ND		250
4-Methyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Styrene	ND		125
Total Xylenes	ND		125

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32124 MATRIX: WATER
SAMPLE ID CLIENT: P32W067

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Broaodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND	*	5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	42		5.0
Ethylbenzene	ND		5.0
Acetone	PRESENT	LB	10
Carbon Disulfide	5.0	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
* = SEE NARRATIVE
A = PHENOMENON OF METHODOLOGY

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32119 MATRIX: WATER
SAMPLE ID CLIENT: P32W062

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Accnaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32119 MATRIX: WATER
SAMPLE ID CLIENT: P32W062

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hcthylnaphthalene	ND		10
2-Nitroanilinc	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32119 MATRIX : WATER
SAMPLE ID CLIENT: P32W062

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : &E-92-32120 MATRIX: WATER
SAMPLE ID CLIENT: P32W063

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Eexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Eexachlorobutadienc	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chlotonaphthalcnc	ND		10
Dimethyl Phthalate	ND		10
Accnaphthylenc	ND		10
Fluorene	ND		10
Acenaphthcnc	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphcnylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrcne	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	L	10
Chryscne	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GU SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAHPLE ID LAB : EE-92-32120 MATRIX: WATER
SAMPLE ID CLIENT: P32W063

PARAMETER	RESULTS	0	ONT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32120 MATRIX: WATER
SAMPLE ID CLIENT: P32W063

PARAMETER	RESULTS	Q	QNT. LJHIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32121 MATRIX: WATER
SAHPLE ID CLIENT: P32W064

PARAMETER	RESULTS	Q	QNT. LIHIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	PRESENT	L	10
1,4-Dichlorobenzene	PRESENT	L	10
1,2-Dichlorobenzene	PRESENT	L	10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Eexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Bexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32121 MATRIX: VATER
SAMPLE ID CLIENT: P32W064

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NME : ACID PHENOL UNITS : UG/L
SMPLE ID LAB : EE-92-32121 MATRIX: WATER
SAMPLE ID CLIENT: P32W064

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32122 MATRIX: WATER
SAMPLE ID CLIENT: P32W065

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylarinc	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophoronc	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopcntadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylenc	ND		10
Fluorcnc	ND		10
Accnaphthene	ND		10
2.4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphcnylaminc	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Rcxachlorobcnzene	ND		10
Phenanthrene	ND		10
Anthraccnc	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200101

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32122 MATRIX: WATER
SAMPLE ID CLIENT: P32W065

PARAMETER	RESULTS	Q	QNT. LIHIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PEENOL UNITS : UG/L
SAHPLE ID LAB : 33-92-32122 MATRIX : WATER
SAMPLE ID CLIENT: P32W065

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophcnol	ND		50
4.6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		SO
2-Mcthylphcnol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32123 MATRIX: WATER
SAMPLE ID CLIENT: P32W066

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	12		10
1,4-Dichlorobenzene	24		10
1,2-Dichlorobenzene	34		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	23		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32123 MATRIX: WATER
SAMPLE ID CLIENT: P32W066

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		SO
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		SO

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : ACID PHENOL UNITS : UG/L
SAHPLE ID LA0 : EE-92-32123 MATRIX: WATER
SAHPLE ID CLIENT: P32W066

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	47		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hcthylphenol	PRESENT	L	10
4-Hethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32124 MATRIX: WATER
SAMPLE ID CLIENT: P32W067

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	PRESENT	L	10
1,4-Dichlorobenzene	PRESENT	L	10
1,2-Dichlorobenzene	PRESENT	L	10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophoronc	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Eexachlorobutadicnc	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophcnyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Iiexachlorobenzcne	ND		10
Phcnanthrcne	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Bcnzidine	ND		SO
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysenc	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32124 MATRIX: WATER
SAMPLE ID CLIENT: P32W067

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		10
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32124 MATRIX: WATER
SAMPLE ID CLIENT: P32W067

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Hethylphcnol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-0790-6
Received Date: 01/30/92
Sampled By: G.G./M.H.

Sample ID.: P32W062 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-7
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W063 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

3200106

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-8
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W064 Sample Date: 01/30/92 The: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL
Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-0790-3
Received Date: 01/30/92
Sampled By: G.G./M.H.

Sample ID.: P32W065 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN; NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

3200167

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-4
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W066 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL
Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-0790-5
Received Date: 01/30/92
Sampled By: G.G./M.H.

Sample ID.: P32W067 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

3200108

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAIIPLING
TEST NAIIE : CHLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	11		1.0
EE-92-32114 P32W008	24		1.0
EE-92-32115 P32W008/DUP.	24		1.0
EE-92-32116 P32W009	3.8		1.0
EE-92-32117 P32W010	11		1.0
EE-92-32118 P32W010/DUP.	10		1.0
EE-92-32119 P32W062	8.9		1.0
EE-92-32120 P32W063	860		1.0
EE-92-32121 P32W064	200		1.0
EE-92-32122 P32W065	140		1.0
EE-92-32123 P32W066	570		1.0
EE-92-32124 P32W067	27		1.0
EE-92-32125 P32W068	130		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CHLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	630		1.0
EE-92-32127 P32WRB01	ND		1.0
EE-92-32128 P32WRB02	ND		1.0
EE-92-32129 P32WFB01	2.0		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200109

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	0.015		0.010
EE-92-32114 P32W008	0.052		0.010
EE-92-32115 P32W008/DUP.	0.019		0.010
EE-92-32116 P32W009	0.027		0.010
E&-92-32117 P32W010	0.025		0.010
EE-92-32118 P32W010/DUP.	0.030		0.010
EE-92-32119 P32W062	0.14		0.010
EE-92-32120 P32W063	0.023		0.010
EE-92-32121 P32W064	0.13		0.010
EE-92-32122 P32W065	0.020		0.010
EE-92-32123 P32W066	0.014		0.010
EE-92-32124 P32W067	0.11		0.010
EE-92-32125 P32W068	0.014		0.010

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	ND		0.010
EE-92-32127 P32WRB01	ND		0.010
EE-92-32128 P32WRB02	ND		0.010
EE-92-32129 P32WFB01	ND		0.010
EE-92-32130 P32WPB01	ND		0.010
EE-92-32132 P32W011	0.093		0.010
EE-92-32133 P32W012R	0.020		0.010
€E-92-32136 P32W013	0.058		0.010
EE-92-32135 P32W014	0.060		0.010

QUALIFIERS: C = ©——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200110

TEST CODE :WF 1 JOB NUMBER :9200 209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	ND		0.10
EE-92-32114 P32W008	0.34		0.10
EE-92-32115 P32W008/DUP.	0.34		0.10
EE-92-32116 P32W009	0.27		0.10
EE-92-32117 P32W010	0.21		0.10
EE-92-32118 P32W010/DUP.	0.20		0.10
EE-92-32119 P32W062	0.44		0.10
EE-92-32120 P32W063	ND		0.10
EE-92-32121 P32W064	0.22		0.10
EE-92-32122 P32W065	ND		0.10
EE-92-32123 P32W066	ND		0.10
EE-92-32124 P32W067	ND		0.10
EE-92-32125 P32W068	ND		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :VF 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	0.27		0.10
EE-92-32127 P32WRB01	ND		0.10
EE-92-32128 P32WRB02	ND		0.10
EE-92-32129 P32WFB01	0.78		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200111

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	39		2.0
EE-92-32114 P32W008	4.6		2.0
EE-92-32115 P32W008/DUP.	4.9		2.0
EE-92-32116 P32W009	11		2.0
EE-92-32117 P32W010	12		2.0
EE-92-32118 P32W010/DUP.	12		2.0
EE-92-32119 P32W062	12		2.0
EE-92-32120 P32W063	85		2.0
EE-92-32121 P32W064	150		2.0
EE-92-32122 P32W065	14		2.0
EE-92-32123 P32W066	9200		2.0
EE-92-32124 P32W067	23		2.0
EE-92-32125 P32W068	12		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME :SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	250		2.0
EE-92-32127 P32WRB01	ND		2.0
33-92-32128 P32WRB02	ND		2.0
EE-92-32129 P32WFB01	ND		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

PROJECT NUMBER 3924020 0201 PROJECT NAME ECOLOGY & ENVIRN.
FIELD GROUP ECOW1 PROJECT MANAGER S.P. WOODWARD

RESULTS OF ANALYSIS

STORET CODE:					1501	1502	3501	3502	9501	9502	11501	11502
METHOD CODE:					R	R	R	R	R	R	R	R
PARAMETER:					ALPHA	ALPHA.CE	BETA	BETA.CE	RA226	RA226.CE	RA228	RA228.CE
UNITS:					PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L
FLD.GRP.	#	SAMPLE ID	DATE	TIME								
ECOUI	I	P32W001	01/29/92	10:30	1.0	1.7	9.6	4.9	9.3	9.4	0.7	8.4
ECOUI	11	P32W008	01/29/92	13:45	3.5	2.8	<0.3	9.1	1.3	0.5	1.1	9.6
ECOUI	12	P32W008D	01/29/92	13:55	2.4	3.9	7.6	9.2	9.9	9.4	9.6	8.6
ECOWI	13	P32W009	01/29/92	14:30	<0.1	2.4	3.8	4.7	0.5	0.3	9.S	9.6
ECOUI	I4	P32W010	01/29/92	15:00	<0.I	1.6	<0.3	3.6	<0.2	0.3	<0.3	1.1
ECOUI	15	P32W010D	01/29/92	15:10	2.3	3.3	7.2*	5.5	m.4	9.3	1.1	1.2
ECOWI	18	P32W062	01/30/92	14:00	<0.1	2.5	8.7	5.2	9.8	R.4	<0.3	0.7
ECOUI	19	P32W063	01/30/92	14:30	9.9	13.9	33.5	24.2	1.7	9.9	9.6	9.8
ECOWI	29	P32W064	01/30/92	15:00	26.0	11.4	<0.3	16.4	0.4	0.4	R.6	9.7
ECOUI	6	P32W065	01/30/92	11:00	2.6	3.9	29.5	12.4	1.1	0.6	(9.3	9.5
ECOUI	16	P32W066	01/30/92	11:30	31.9	I25	I50	I74	20.I	2.0	0.5	9.8
ECOUI	17	P32W067	01/30/92	12:00	6.9	5.7	<0.3	1.5	0.3	0.3	0.5	0.7
ECOUI	4	P32W068	01/30/92	10:00	8.5	7.6	53.1	15.2	1.5	1.3	(0.3	9.6
ECOUI	5	P32W069	01/30/92	10:30	16.4	16.7	78.8	26.6	1.3	0.6	I.6	0.6
ECOUI	3	P32WOFB01	01/30/92	08:30	<0.1	0.6	8.0	2.2	n.4	0.5	<0.3	H.6
ECOWI	10	P32WORB01	01/29/92	10:00	0.8	n.6	1.8	1.8	<0.I	0.4	0.3	n.6
ECOUI	2	P32WORB02	01/30/92	08:00	0.3	9.6	2.7	1.0	<0.1	9.?	<0.3	0.S
ECOUI	21	P32WORB03	01/31/92	09:30	0.1	R.9	I.1	I.!	<0.2	0.4	0.3	9.i
ECOUI	7	P32WPCD-1	01/31/92	10:30	11.0	9.2	22.8	16.?	0.a	n.6	0.6	0.5
ECOWI	8	P32WPC1-1	01/31/92	11:45	32.0	15.2	30.7	18.5	2.?	1.0	0.7	0.6
ECOWI	9	P32WPCS-1	01/31/92	12:30	3.1	2.5	1.8	3.4	0.8	R.5	1.1	8.6

Note: CE = Counting error
* = Laboratory replicate analysis is outside of criteria (7.2 and 0.0 PC/L).

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUIT'S 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0743
Order Number: P53861
Received Date: 01/29/92
client: 05039
Sampled By: M.G./M.H.
Sample Date: 01/29/92
Sample Time: AM & PM

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NAS?
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	units	Results	Detection Limit
0743-1	P32W001	TOTAL COLIFORM	CLY/100	28	4
0743-2	P32W008	TOTAL COLIFORM	CLY/100	BDL	4
0743-3	P32W008 D	TOTAL COLIFORM	CLY/100	BDL	4
0743-4	P32W009	TOTAL COLIFORM	CLY/100	BDL	2
0743-5	P32W0010	TOTAL COLIFORM	CLY/100	BDL	2
0743-6	P32W0010 D	TOTAL COLIFORM	CLY/100	BDL	2
0743-1	P32W001	TURBIDITY	N.T.U.	14	0.1
0743-2	P32W008	TURBIDITY	N.T.U.	15	0.1
0743-3	P32W008 D	TURBIDITY	N.T.U.	13	0.1
0743-4	P32W009	TURBIDITY	N.T.U.	5.2	0.1
0743-5	P32W0010	TURBIDITY	N.T.U.	3.4	0.1
0743-6	P32W0010 D	TURBIDITY	N.T.U.	4.5	0.1

Comments: PPM = Parts Per Million, mg/l. Method References: EPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985.
BDL = Below Detection Limits.

Approved By : Linda Pergan

3200113

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0790
Order Number: P53908
Received Date: 01/30/92
Client: 05039
Sampled By: G.G./M.H.
Sample Date: 01/30/92
Sample Time: AM & PM

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0790-1	P32W068	TOTAL COLIFORM	CLY/100	BDL	1
0790-2	P32W069	TOTAL COLIFORM	CLY/100	BDL	4
0790-3	P32W065	TOTAL COLIFORM	CLY/100	BDL	1
0790-4	P32W066	TOTAL COLIFORM	CLY/100	BDL	2
0790-5	P32W067	TOTAL COLIFORM	CLY/100	BDL	1
0790-6	P32W062	TOTAL COLIFORM	CLY/100	BDL	2
0790-7	P32W063	TOTAL COLIFORM	CLY/100	BDL	1
0790-8	P32W064	TOTAL COLIFORM	CLY/100	65	1
0790-1	P32W068	TURBIDITY	N.T.U.	2.8	0.1
0790-2	P32W069	TURSIDITY	N.T.U.	18	0.1
0790-3	P32W065	TURBIDITY	N.T.U.	1.7	0.1
0790-4	P32W066	TURBIDITY	N.T.U.	29	0.1
0790-5	P32W067	TURBIDITY	N.T.U.	17	0.1
0790-6	P32W062	TURBIDITY	N.T.U.	26	0.1
3790-7	P32W063	TURBIDITY	N.T.U.	5.8	0.1
0790-8	P32W064	TURBIDITY	N.T.U.	4.8	0.1

Comments: PPM = Parts Per Million, mg/l. Method References: EPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985.
BDL = Below Detection Limits.

Approved By: Linda Pergan

APPENDIX D

POINT-OF-COMPLIANCE HONITORING WELLS GROUNDWATER SAMPLING ANALYTICAL RESULTS

Table D-1

GROUNDWATER SAMPLE DESIGNATIONS
POINT-OF-COMPLIANCE MONITORING WELLS

Sample Location	Sample Designation
Well UG-1	P3ZW001
Well GN-a	P3ZW008
Well GM-9	P3ZW009
Well GM-10	P3ZW010
Well GM-11	P3ZW011
Well GM-12R	P3ZW012R
Well GM-13	P3ZW013
Well GM-14	P3ZW014
Well GM-68	P3ZW068
Well GM-69	P3ZW069
Well PCS-1	P3ZWS001
Well PCI-1	P3ZWI001
Well PCD-1	P3ZWD001

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32113 MATRIX: WATER
SAMPLE ID CLIENT: P32W001

PARAMETER		RESULTS	a	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1400		50	UG/L
Manganese	(ICP)	ND		10	UG/L
sodium	(ICP)	8300		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200116

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UA-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	78		20	UG/L
Cadmium	(ICP)	5.1		5.0	UG/L
Chromium Total	(ICP)	11		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	3200		50	UG/L
Manganese	(ICP)	71		10	UG/L
Sodium	(ICP)	9800		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	18		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32116 MATRIX: WATER
SAMPLE ID CLIENT: P32W009

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	32		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1400		50	UG/L
Manganese	(ICP)	20		10	UG/L
Sodium	(ICP)	3500		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200117

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UA-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	76		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	370		50	UG/L
Manganese	(ICP)	62		10	UG/L
Sodium	(ICP)	6000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PBESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32125 MATRIX: WATER
SAMPLE ID CLIENT: P32W068

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1600		50	UG/L
Manganese	(ICP)	60		10	UG/L
Sodium	(ICP)	91000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAHPLE ID LAB :EE-92-32126 MATRIX: WATER
SAHPLE ID CLIENT: P32W069

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	34		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	340		50	UG/L
Hanganese	(ICP)	91		10	UG/L
Sodium	(ICP)	600000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.23	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32159 MATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER		RESULTS	Q	QNT. LIHIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	4000		SO	UG/L
Manganese	(ICP)	85		10	UG/L
Sodium	(ICP)	29000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	40		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200119

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32160 MATRIX: WATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	140		50	UG/L
Manganese	(ICP)	15		10	UG/L
Sodium	(ICP)	180000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	36		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32157 MATRIX: WATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER		RESULTS	Q	ONT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	22		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	1600		50	UG/L
Hangancse	(ICP)	68		10	UG/L
Sodium	(ICP)	180000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	64		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CHLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	11		1.0
EE-92-32114 P32W008	24		1.0
EE-92-32115 P32W008/DUP.	24		1.0
EE-92-32116 P32W009	3.8		1.0
EE-92-32117 P32W010	11		1.0
EE-92-32118 P32W010/DUP.	10		1.0
EE-92-32119 P32W062	8.9		1.0
EE-92-32120 P32W063	860		1.0
EE-92-32121 P32W064	200		1.0
EE-92-32122 P32W065	140		1.0
EE-92-32123 P32W066	570		1.0
EE-92-32124 P32W067	27		1.0
EE-92-32125 P32W068	130		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CHLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	630		1.0
EE-92-32127 P32WRB01	ND		1.0
EE-92-32128 P32WRB02	ND		1.0
EE-92-32129 P32WFB01	2.0		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	0.015		0.010
EE-92-32114 P32W008	0.052		0.010
EE-92-32115 P32W008/DUP.	0.019		0.010
EE-92-32116 P32W009	0.027		0.010
E€-92-32117 P32W010	0.025		0.010
EE-92-32118 P32W010/DUP.	0.030		0.010
EE-92-32119 P32W062	0.14		0.010
EE-92-32120 P32W063	0.023		0.010
EE-92-32121 P32W064	0.13		0.010
EE-92-32122 P32W065	0.020		0.010
EE-92-32123 P32W066	*0.014*		0.010
EE-92-32124 P32W067	0.11		0.010
EE-92-32125 P32W068	0.014		0.010

OUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	ND		0.010
EE-92-32127 P32WRB01	ND		0.010
EE-92-32128 P32WRB02	ND		0.010
EE-92-32129 P32WFB01	ND		0.010
EE-92-32130 P32WPB01	ND		0.010
EE-92-32132 P32W011	0.093		0.010
EE-92-32133 P32W012R	*0.020*		0.010
EE-92-32134 P32W013	0.058		0.010
EE-92-32135 P32W014	0.060		0.010

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WF 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	ND		0.10
E€-92-32114 P32W008	0.34		0.10
EE-92-32115 P32W008/DUP.	0.34		0.10
EE-92-32116 P32W009	0.27		0.10
EE-92-32117 P32W010	0.21		0.10
E€-92-32118 P32W010/DUP.	0.20		0.10
EE-92-32119 P32W062	0.44		0.10
EE-92-32120 P32W063	ND		0.10
EE-92-32121 P32W064	0.22		0.10
€E-92-32122 P32W065	ND		0.10
€E-92-32123 P32W066	ND		0.10
EE-92-32124 P32W067	ND		0.10
EE-92-32125 P32W068	ND		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WF 1 JOB NUMBER :9200.209

Ecology and Environaent, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	0.27		0.10
EE-92-32127 P32WRB01	ND		0.10
EE-92-32128 P32WRB02	ND		0.10
EE-92-32129 P32WFB01	0.78		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200123

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	39		2.0
EE-92-32114 P32W008	4.6		2.0
EE-92-32115 P32W008/DUP.	4.9		2.0
EE-92-32116 P32W009	11		2.0
EE-92-32117 P32W010	12		2.0
EE-92-32118 P32W010/DUP.	12		2.0
EE-92-32119 P32W062	12		2.0
EE-92-32120 P32W063	85		2.0
EE-92-32121 P32W064	150		2.0
EE-92-32122 P32W065	14		2.0
EE-92-32123 P32W066	9200		2.0
EE-92-32124 P32W067	23		2.0
EE-92-32125 P32W068	12		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	250		2.0
EE-92-32127 P32WRB01	ND		2.0
EE-92-32128 P32WRB02	ND		2.0
EE-92-32129 P32WFB01	ND		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200124

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32159 . MATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Chloride	16		1.0	MG/L
Cyanide-complex	0.037		0.010	MG/L
Fluoride Total	0.29		0.10	MG/L
Sulfate	18		2.0	MG/L

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32160 MATRIX: WATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Chloride	240		1.0	MG/L
Cyanide-complex	0.25		0.010	MG/L
Fluoride Total	0.37		0.10	MG/L
Sulfate	120		2.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32157 MATRIX: VATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Chloride	300		1.0	MG/L
Cyanide-complex	ND		0.010	MG/L
Fluoride Total	ND		0.10	MG/L
Sulfate	25		2.0	MG/L

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J * ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT
NA = NOT APPLICABLE

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-1
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W001 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN. NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN; NITRATE	PPM	BDL	0.1

3200126

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-2
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W008 Sample Date: 01/29/92 The: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-4
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W009 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

3200127

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-5
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W0010 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
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PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-1
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W068 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN. NITRITE	PPM	BDL	0.1
NITROGEN8 NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

3200128

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-2
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W069 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0828-3
Received Date: 01/31/92
Sampled By: G.G./M.H.

Project Number:. UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32WOPCS-1 Sample Date: 01/31/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

end of report

3200129

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0828-2
Received Date: 01/31/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Protect Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32WOPCI-1 Sample Date: 01/31/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0828-1
Received Date: 01/31/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32WOPCD-1 Sample Date: 01/31/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN8 ITE NITRATE	PPM	0.2	0.1
NITROGEN, ATE	PPM	0.2	0.1

3200130

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32113 MATRIX: WATER
SAMPLE ID CLIENT: P32W001

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	15	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	PRESENT	L	5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5,0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzehe	ND		5.0
Ethylbenzene	ND		5.0
Acetone	27	B	10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Bexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAHPLE ID LAB : €E-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	0	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	PRESENT	L	10
Chloroethane	ND		10
Methylene Chloride	14	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	6.0		5.0
Total-1,2-Dichloroethene	PRESENT	L	5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	290	X	5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	20		5.0
Chlorobenzene	3300	X	5.0
Ethylbenzene	PRESENT	L	5.0
Acetone	46	B	10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	7.0		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT

3200131

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GU SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 D MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	ND		250
Chloroethane	ND		250
Methylene Chloride	PRESENT	LB	125
1,1-Dichloroethene	ND		125
1,1-Dichloroethane	ND		125
Total-1,2-Dichloroethene	ND		125
Chloroform	ND		125
1,2-Dichloroethane	ND		125
1,1,1-Trichloroethane	ND		125
Carbon Tetrachloride	ND		125
Bromodichloromethane	ND		125
1,2-Dichloropropane	ND		125
trans-1,3-Dichloropropene	ND		125
Trichloroethene	ND		125
Chlorodibromomethane	ND		125
1,1,2-Trichloroethane	ND		125
Benzene	300		125
cis-1,3-Dichloropropene	ND		125.
2-Chloroethylvinyl Ether	ND		250
Bromoform	ND		125
Tetrachloroethene	ND		125
1,1,2,2-Tetrachloroethane	ND		125
Toluene	ND		125
Chlorobenzene	8200	X	125
Ethylbenzene	ND		125
Acetone	PRESENT	LB	250
Carbon Disulfide	PRESENT	LA	125
2-Butanone	ND		250
Vinyl Acetate	ND		250
4-Methyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Styrene	ND		125
Total Xylenes	ND		125

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT, WITHIN LINEAR RANGE
A = PHENOMENON OF METHODOLOGY

TEST COD& :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32116 MATRIX: WATER
SAMPLE ID CLIENT: P32W009

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromoaethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	16	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1.2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromoaethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	100		5.0
Ethylbenzene	ND		5.0
Acetone	22	B	10
Carbon Disulfide	5.0	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Hethyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAUPLE ID LAB : EE-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND	*	5.0
Ethylbenzene	ND		5.0
Acetone	18	B	10
Carbon Disulfide	21	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
* = SEE NARRATIVE
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SMPLE ID LAB : EE-92-32125 MATRIX: WATER
SAMPLE ID CLIENT: P32W068

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroaethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	7.0	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bronodichlorowthanc	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethcnc	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	19	B	10
Carbon Disulfide	PRESENT	LA	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

3200133

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAHPLE ID LAB : EE-92-32126 MATRIX: WATER
SAMPLE ID CLIENT: P32W069

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		1000
Bromomethane	ND		1000
Vinyl Chloride	ND		1000
Chloroethane	ND		1000
Methylene Chloride	600	B	500
1,1-Dichloroethene	ND		500
1,1-Dichloroethane	ND		500
Total-1,2-Dichloroethene	ND		500
Chloroform	ND		500
1,2-Dichloroethane	ND		500
1,1,1-Trichloroethane	ND		500
Carbon Tetrachloride	ND		500
Bromodichloromethane	ND		500
1,2-Dichloropropane	ND		500
trans-1,3-Dichloropropene	ND		500
Trichloroethene	ND		500
Chlorodibromomethane	ND		500
1,1,2-Trichloroethane	ND		500
Benzene	ND		500
cis-1,3-Dichloropropene	ND		500
2-Chloroethylvinyl Ether	ND		1000
Bromoform	ND		500
Tetrachloroethene	ND		500
1,1,2,2-Tetrachloroethane	ND		500
Toluene	ND		500
Chlorobenzene	PRESENT	L	500
Ethylbenzene	ND		500
Acetone	PRESENT	LB	1000
Carbon Disulfide	6800	A*	500
2-Butanone	ND		1000
Vinyl Acetate	ND		1000
4-Methyl-2-Pentanone	ND		1000
2-Hexanone	ND		1000
Styrene	ND		500
Total Xylenes	ND		500

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
* = SEE NARRATIVE
A = PHENOMENON OF HETHODOLOGY

TEST CODE :VPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UGIL
SAMPLE ID LAB : EE-92-32126 D MATRIX: WATER
SAMPLE ID CLIENT: P32W069

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloronethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	ND		250
Chloroethane	ND		250
Methylene Chloride	PRESENT	LB	125
1,1-Dichloroethene	ND		125
1,1-Dichloroethane	ND		125
Total-1,2-Dichloroethene	ND		125
Chloroform	ND		125
1,2-Dichloroethane	ND		125
1,1,1-Trichloroethane	ND		125
Carbon Tetrachloride	ND		125
Bromodichloromethane	ND		125
1,2-Dichloropropane	ND		125
trans-1,3-Dichloropropene	ND		125
Trichloroethene	ND		125
Chlorodibromomethane	ND		125
1,1,2-Trichloroethane	ND		125
Benzene	ND		125
cis-1,3-Dichloropropene	ND		125
2-Chloroethylvinyl Ether	ND		290
Bromoform	ND		125
Tetrachloroethene	ND		125
1,1,2,2-Tetrachloroethane	ND		125
Toluene	ND		125
Chlorobenzene	PRESENT	L	125
Ethylbenzene	ND		125
Acetone	PRESENT	LB	250
Carbon Disulfide	140	A*	125
2-Butanone	ND		290
Vinyl Acetate	ND		250
4-Hethyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Styrene	ND		125
Total Xylenes	ND		125

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
* = SEE NARRATIVE
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : BE-92-32159 HATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	PRESENT	L	5.0
Ethylbenzene	ND		5.0
Acetone	16	B	10
Carbon Disulfide	12	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF THE METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32160 MATRIX: VATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER	RESULTS	0	QNT. LIMIT
Chloromethane	ND		lo
Bromoaethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chlorocthylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	22		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon Disulfide	25	A	5.0
2-Butanonc	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Beltanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF THE METHODOLOGY

3200135

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TVTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAHPLE ID LAB : EE-92-32157 MATRIX: WATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Brornodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon Disulfide	15	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
9-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED ONT. LIMIT
A = PHENOMENON OF THE METHODOLOGY

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32113 MATRIX: WATER
SAMPLE ID CLIENT: P32W001

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Bexachlorobutadiene	ND		10
Eexachlorocyclopentadiene	ND		10
2-Chloronaphthalenc	ND		10
Dimethyl Phthalate	ND		10
Accnaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Eexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200136

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32113 MATRIX: WATER
SAMPLE ID CLIENT: P32W001

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-flethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

OUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32113 MATRIX: WATER
SAMPLE ID CLIENT: P32W001

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 MATRIX : WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	58		10
1,4-Dichlorobenzene	44		10
1,2-Dichlorobenzene	16		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylarnine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2.4-Trichlorobenzene	ND		10
Naphthalene	47		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaph thylene	ND		10
Fluorene	ND		10
Acenaph thene	ND		10
2.4-Dinitrotoluene	ND		10
2.6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobentene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT .NO = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED QNT. LIHIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAHPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAHPLE ID LAB : EE-92-32114 MATRIX : WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		10
2-Chlorophenol	PRESENT	L	10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4.6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2.4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE 3 = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32116 MATRIX: VATER
SAMPLE ID CLIENT: P32W009

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	PRESENT	L	10
1,4-Dichlorobenzene	PRESENT	L	10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Eexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Bcxachlorobutadiene	ND		10
Hcxachlorocyclopentadiene	ND		10
2-Chloronaphthalenc	ND		10
Dimethyl Phthalate	ND		10
Accnaph thylene	ND		10
Fluorene	ND		10
Accnaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylaaine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Aexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32116 MATRIX: WATER
SAMPLE ID CLIENT: P32W009

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32116 MATRIX: WATER
SAMPLE ID CLIENT: P32W009

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Hethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32117 MATRIX: VATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1.2, 4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocgclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		LO
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		0
Diethyl Phthalate	WD		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
6-Bromophenyl Phenyl Ether	WD		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :VBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hcthylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PEENOL UNITS : UG/L
SAHPLE ID LAB : EE-92-32117 HATRIX: VATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hechylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		LO
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SMPLE ID LAB : EE-92-32125 MATRIX: VATER
SMPLE ID CLIENT: P32W068

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Eexachlorobutadienc	ND		10
Iicxachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophcnyl Phenyl Ether	ND		10
N-Nitrosodiphcnylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE' B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TUTP GW SAMPLING
TEST NME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32125 MATRIX: WATER
SMPLE ID CLIENT: P32W068

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32125 MATRIX: WATER
SAMPLE ID CLIENT: P32W068

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Hethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32126 MATRIX: WATER
SAMPLE ID CLIENT: P32W069

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		50
1,3-Dichlorobenzene	510		50
1,4-Dichlorobenzene	450		50
1,2-Dichlorobenzene	470		50
Bis(2-Chloroisopropyl)Ether	ND		50
N-Nitrosodipropylamine	ND		50
Hexachloroethane	ND		50
Nitrobenzene	ND		50
Isophorone	ND		50
Bis(2-Chloroethoxy)Methane	ND		50
1,2,4-Trichlorobenzene	ND		50
Naphthalene	ND		50
Hexachlorobutadiene	ND		50
Hexachlorocyclopentadiene	ND		50
2-Chloronaphthalene	ND		50
Dimethyl Phthalate	ND		50
Acenaphthylene	ND		50
Fluorene	ND		50
Acenaphthene	ND		50
2,4-Dinitrotoluene	ND		50
2,6-Dinitrotoluene	ND		50
Diethyl Phthalate	ND		50
4-Chlorophenyl Phenyl Ether	ND		50
N-Nitrosodiphenylamine	ND		50
4-Bromophenyl Phenyl Ether	ND		50
Hexachlorobenzene	ND		50
Phenanthrene	ND		50
Anthracene	ND		50
Di-N-Butyl-Phthalate	ND		50
Fluoranthene	ND		50
Benzidine	ND		250
Pyrene	ND		50
Butyl Benzyl Phthalate	ND		50
3,3'-Dichlorobenzidine	ND		100
Benzo(A)Anthracene	ND		50
Bis(2-Ethylhexyl)Phthalate	PRESENT	L	50
Chrysene	ND		50
Di-N-Octyl Phthalate	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : 33-92-32126 MATRIX: WATER
SAMPLE ID CLIENT: P32W069

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		50
Benzo(K)Fluoranthene	ND		50
Benzo(A)Pyrene	ND		50
Indeno(1,2,3-cd)Pyrene	ND		50
Dibenzo(A,H)Anthracene	ND		50
Benzo(G,H,I)Perlyene	ND		50
Benzyl Alcohol	ND		50
4-Chloroaniline	ND		50
2-Hethylnaphthalene	ND		50
2-Nitroaniline	ND		250
3-Nitroaniline	ND		250
Dibenzofuran	ND		50
4-Nitroaniline	ND		250

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32126 MATRIX: WATER
SAMPLE ID CLIENT: P32W069

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		SO
2-Chlorophenol	ND		50
2-Nitrophenol	ND		50
2,4-Dimethylphenol	ND		50
2,4-Dichlorophenol	PRESENT	L	50
4-Chloro-3-flethylphenol	ND		50
2,4,6-Trichlorophenol	ND		50
2,4-Dinitrophenol	ND		250
4-Nitrophenol	ND		250
4,6-Dinitro-2-Methylphenol	ND		250
Pentachlorophenol	ND		250
2-Hethylphenol	ND		50
4-flethylphenol	ND		50
Benzoic Acid	ND		250
2,4,5-Trichlorophenol	ND		250

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32159 MATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	PRESENT	L	10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylaainc	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Ecxachlorocyclopentadienc	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	PRESENT	L	10
Acenaphthcnc	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophcnyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobcnzene	ND		10
Phenanthrene	ND		10
Anthracenc	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthenc	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200145

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAHPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32159 MATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAWPLE ID LAB : EE-92-32159 MATRIX: WATER
SAMPLE ID CLIENT: P32WS01PCS1

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphcnol	ND		10
4-Hcthylphcnol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200146

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32160 MATRIX: WATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	PRESENT	L	10
1,4-Dichlorobenzene	PRESENT	L	10
1,2-Dichlorobenzene	16		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		SO
Pyrene	ND		10
Butyl Benzyl Phthalate	PRESENT	L	10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	13	B	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :VBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GU SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32160 MATRIX: WATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	13		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibcnzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED QNT. LIMIT

3200147

TEST CODE :WAPBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32160 MATRIX: VATER
SAMPLE ID CLIENT: P32WI01PCI1

PARAMETER	RESULTS	0	ONT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAHPLE ID LAB : €E-92-32157 MATRIX: WATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalenc	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylenc	ND		10
Fluorene	ND		10
Acenaphthcne	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylaaine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrenc	ND		10
Butyl Benzyl Phthalate	17		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	26	B	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200148

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32157 MATRIX: WATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	25		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAUPLING
TEST NAUE : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32157 MATRIX: WATER
SAMPLE ID CLIENT: P32WD01PCD1

PARAMETER	RESULTS	0	om. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2.4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4.6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200149

PROJECT NUMBER 3924020 0201 PROJECT NAME ECOLOGY & ENVIRN.
FIELD GROUP ECOW1 PROJECT MANAGER S.P. WOODWARD

RESULTS OF ANALYSIS

STORET COOL:					1501	1502	3501	3502	9591	9502	11581	11562
METHOD COOE:					R	A	R	A	R	R	A	R
PARAMETER:					ALPHA	ALPHA.CE	BETA	BETA,CE	RA226	RA226,CE	RA228	RA228,CE
UNITS:					PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L
FLD.GRP.	8	SAMPLE ID	DATE	TIME								
ECOWI	1	P32W001	01/29/92	10:30	I.e	1.7	8.6	4.e	0.3	0.4	0.9	9.6
ECOWI	11	P32W008	01/29/92	13:45	3.5	2.8	<0.3	8. I	1.3	0.5	1.1	9.6
ECOWI	12	P32W008D	01/29/92	13:55	2.4	3.8	7.6	8.2	9.9	a.4	9.6	9.6
ECOWI	13	P32W009	01/29/92	14:30	<0.1	2.4	3.8	4.7	0.5	0.3	0.5	8.6
ECOWI	I4	P32W010	01/29/92	15:00	<0.1	1.6	<0.3	3.6	<0.2	9.3	<0.3	1.1
ECOWI	15	P32W010D	01/29/92	15:10	2.3	3.3	7.2*	5.5	0.4	9.3	1.1	I.2
ECOWI	18	P32W062	01/30/92	14:00	<0.1	2.5	9.7	5.2	0.8	e.4	<0.3	0.7
ECOWI	19	P32W063	01/30/92	14:30	9.9	13.8	33.5	24.2	1.9	0.9	8.6	0.8
ECOUI	20	P32W064	01/30/92	15:00	26.0	11.4	<0.3	16.4	0.4	0.4	R.6	0.7
ECOWI	6	P32W065	01/30/92	11:00	2.6	3.0	28.5	13.4	1.1	0.6	<0.3	0.5
ECOUI	16	P32W066	01/30/92	11:30	31.9	125	I50	174	20.I	2.0	u.5	R.8
ECOWI	17	P32W067	01/30/92	12:00	6.9	5.7	<0.3	3.6	0.3	0.3	0.5	1.7
ECOUI	4	P32W068	01/30/92	10:00	8.5	7.6	53.I	15.2	1.5	1.3	<0.3	8.6
ECOWI	5	P32W069	01/30/92	10:30	16.4	16.9	78.8	26.6	1.3	0.6	1.6	0.6
ECOWI	3	P32W0FB01	01/30/92	08:30	<0.I	0.b	8.0	2.2	0.4	0.5	<0.3	k1.6
ECOWI	10	P32W0RB01	01/29.92	10:00	0.8	A.6	1.8	1.8	<0.1	e.4	0.3	0.6
ECOWI	2	P32W0RB02	01/30/92	08:00	0.3	0.6	2.9	1.9	<0.1	0.9	i0.3	0.5
ECOUI	21	P32W0RB03	01/31/92	09:30	0.7	0.9	1.1	1.3	<0.2	0.4	0.3	9.7
ECOUI	7	P32WPCD-1	01/31/92	10:30	11.0	9.:	22.8	16.9	0.8	0.6	d.6	0.5
ECOWI	8	P32WPC1-1	01/31/92	11:45	32.0	15.2	30.7	18.5	2.9	1.0	0.7	0.6
ECOUI	9	P32WPCS-1	01/31/92	12:30	3.I	2.5	1.8	3.4	0.8	e.5	1.1	U.6

ote: CE = Counrinq error
* - Laboratory replicate analysis is outside of criteria (7.2 and n.O PC/L).

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULP BREEZE FL 32501-0000

Lab I.D.#: 92-0743
Order Number: P53861
Received Date: 01/29/92
Client: 05039
Sampled By: M.G./M.H.
Sample Date: 01/29/92
Sample Time: AM & PM

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0743-1	P32W001	TOTAL COLIFORM	CLY/100	28	4
0743-2	P32W008	TOTAL COLIFORM	CLY/100	BDL	4
0743-3	P32W008 D	TOTAL COLIFORM	CLY/100	BDL	4
0743-4	P32W009	TOTAL COLIFORM	CLY/100	SDL	2
0743-5	P32W0010	TOTAL COLIFORM	CLY/100	BDL	2
0743-6	P32W0010 D	TOTAL COLIFORM	CLY/100	BDL	2
0743-1	P32W001	TURBIDITY	N.T.U.	14	0.1
0743-2	P32W008	TURBIDITY	N.T.U.	15	0.1
0743-3	P32W008 D	TURBIDITY	N.T.U.	13	0.1
0743-4	P32W009	TURBIDITY	N.T.U.	5.2	0.1
0743-5	P32W0010	TURBIDITY	N.T.U.	3.4	0.1
0743-6	P32W0010 D	TURBIDITY	N.T.U.	4.5	0.1

Comments: PPM = Parts Per Million, mg/l. Method References: EPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985.
BDL = Below Detection Limits.

Approved By : Linda Perry

3200150

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0790
Order Number: P53908
Received Date: 01/30/92
Client: 05039
Sampled BY: G.G./M.H.
Sample Date: 01/30/92
Sample Time: AM & PM

N/S = Not Submitted

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0790-1	P32W068	TOTAL COLIFORM	CLY/100	BDL	1
0790-2	P32W069	TOTAL COLIFORM	CLY/100	BDL	4
0790-3	P32W065	TOTAL COLIFORM	CLY/100	BDL	1
0790-4	P32W066	TOTAL COLIFORM	CLY/100	BDL	2
0790-5	P32W067	TOTAL COLIFORM	CLY/100	BDL	1
0790-6	P32W062	TOTAL COLIFORM	CLY/100	BDL	2
0790-7	P32W063	TOTAL COLIFORM	CLY/100	BDL	1
0790-8	P32W064	TOTAL COLIFORM	CLY/100	65	1
0790-1	P32W068	TURBIDITY	N.T.U.	2.8	0.1
0790-2	P32W069	TURBIDITY	N.T.U.	18	0.1
0790-3	P32W065	TURBIDITY	N.T.U.	1.7	0.1
0790-4	P32W066	TURBIDITY	N.T.U.	29	0.1
0790-5	P32W067	TURBIDITY	N.T.U.	17	0.1
0790-6	P32W062	TURBIDITY	N.T.U.	26	0.1
0790-7	P32W063	TURBIDITY	N.T.U.	5.8	0.1
0790-8	P32W064	TURBIDITY	N.T.U.	4.8	0.1

Comments: PPM = Parts Per Million, mg/l. Method References: EPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985.
BDL = Below Detection Limits.

Approved By: Linda Regan

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0828
Order Number: P53960
Received Date: 01/31/92
Client: 05039
Sampled By: G.G./M.H.
Sample Date: 01/31/92
Sample Time: AM & PM

N/S = Not Submitted

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0828-1	P32WOPCD-1	TOTAL COLIFORM	CLY/100	BDL	2
0828-2	P32WOPCI-1	TOTAL COLIFORM	CLY/100	BDL	2
0828-3	P32WOPCS-1	TOTAL COLIFORM	CLY/100	BDL	2
0828-1	P32WOPCD-1	TURBIDITY	N.T.U.	14	0.1
0828-2	P32WOPCI-1	TURBIDITY	N.T.U.	10	0.1
0828-3	P32WOPCS-1	TURBIDITY	N.T.U.	100	0.2+

Comments: PPM = Parts Per Million, mg/l. Method References: BPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985. BDL = Below Detection Limits. +Diluted due to overcalibration.

Approved By : Linda Pergr

3200151

APPENDIX E

FIELD AND LABORATORY QA/QC SAMPLE ANALYTICAL RESULTS

Table E-1

SAMPLE DESIGNATIONS
FIELD QA/QC SAMPLES

Sample Type	Sample Designation
Groundwater Duplicate	P3ZW008D
Groundwater Duplicate	P3ZW010D
Trip bottle blank.	P3ZWTB01
Trip bottle blank.	P3ZWTB02
Sampling equipment rinsate[b]	P3ZWRB01
Sampling equipment rinsate[c]	P3ZWRB02
Sampling equipment rinsate[d]	P3ZWRB03
Field blank	P3ZWFB01
Preservative blank.	P3ZWPB01

[a]Analyzed for VOCs only.

[b]Collected 01-29-92

[c]Collected 01-30-92

[d]Collected 01-31-92

[e]Analyzed for metals, cyanide and VOCs only.

Doc. Num. 27:31

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	78		20	UG/L
Cadmium	(ICP)	5.1		5.0	UG/L
Chromium Total	(ICP)	11		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	3200		SO	UG/L
Manganese	(ICP)	71		10	UG/L
Sodium	(ICP)	9800		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	18		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED QNT. LIMIT

3200153

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32115 MATRIX: WATER
SAMPLE ID CLIENT: P32W008/DUP.

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	78		20	UG/L
Cadmium	(ICP)	5.4		5.0	UG/L
Chromium Total	(ICP)	14		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	3200		50	UG/L
Manganese	(ICP)	73		10	UG/L
Sodium	(ICP)	10000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	26		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	76		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	370		50	UG/L
Manganese	(ICP)	62		10	UG/L
Sodium	(ICP)	6000		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32118 MATRIX: WATER
SAMPLE ID CLIENT: P32W010/DUP.

PARAMETER		RESULTS	0	ONT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	76		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	420		50	UG/L
Manganese	(ICP)	60		10	UG/L
Sodium	(ICP)	5800		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32127 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB01

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	830		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200155

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32128 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB02

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	ND		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.23	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32158 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB03

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	280		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	ND		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200156

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32129 MATRIX: WATER
SAMPLE ID CLIENT: P32WFB01

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(PU)	ND		5.0	UG/L
Barium	(ICP)	21		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	1400		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	38		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SMPLE ID LAB :EE-92-32130 MATRIX: WATER
SMPLE ID CLIENT: P32WPB01

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		lo	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
sodium	(ICP)	ND		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CBLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	11		1.0
EE-92-32114 P32W008	24		1.0
EE-92-32115 P32W008/DUP.	24		1.0
EE-92-32116 P32W009	3.8		1.0
EE-92-32117 P32W010	11		1.0
EE-92-32118 P32W010/DUP.	10		1.0
EE-92-32119 P32W062	8.?		1.0
EE-92-32120 P32W063	860		1.0
EE-92-32121 P32W064	200		1.0
EE-92-32122 P32W065	140		1.0
EE-92-32123 P32W066	570		1.0
EE-92-32124 P32W067	27		1.0
EE-92-32125 P32W068	130		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCL 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CHLORIDE UNITS : MG/L
PARAMETER : Chloride

SAMPLE ID	RESULTS	a	QNT. LIMIT
33-92-32126 P32W069	630		1.0
EE-92-32127 P32WRB01	ND		1.0
EE-92-32128 P32WRB02	ND		1.0
EE-92-32129 P32WFB01	2.0		1.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200158

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GY SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	0.015		0.010
EE-92-32114 P32W008	0.052		0.010
EE-92-32115 P32W008/DUP.	0.019		0.010
EE-92-32116 P32W009	0.027		0.010
EE-92-32117 P32W010	0.025		0.010
EE-92-32118 P32W010/DUP.	0.030		0.010
EE-92-32119 P32W062	0.14		0.010
EE-92-32120 P32W063	0.023		0.010
EE-92-32121 P32W064	0.13		0.010
EE-92-32122 P32W065	0.020		0.010
EE-92-32123 P32W066	0.014		0.010
EE-92-32124 P32W067	0.11		0.010
EE-92-32125 P32W068	0.014		0.010

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WCNCMP1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : CYANIDE-COMPLEX UNITS : MG/L
PARAMETER : Cyanide-complex

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	ND		0.010
EE-92-32127 P32WRB01	ND		0.010
EE-92-32128 P32WRB02	ND		0.010
EE-92-32129 P32WFB01	ND		0.010
EE-92-32130 P32WPB01	ND		0.010
EE-92-32132 P32W011	0.093		0.010
EE-92-32133 P32W012R	0.020		0.010
EE-92-32134 P32W013	0.058		0.010
EE-92-32135 P32W014	0.060		0.010

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WF 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	ND		0.10
EE-92-32114 P32W008	0.34		0.10
EE-92-32115 P32W008/DUP.	0.34		0.10
EE-92-32116 P32W009	0.27		0.10
EE-92-32117 P32W010	0.21		0.10
EE-92-32118 P32W010/DUP.	0.20		0.10
EE-92-32119 P32W062	0.44		0.10
EE-92-32120 P32W063	ND		0.10
EE-92-32121 P32W064	0.22		0.10
EE-92-32122 P32W065	ND		0.10
EE-92-32123 P32W066	ND		0.10
EE-92-32124 P32W067	ND		0.10
EE-92-32125 P32W068	ND		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE WF 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : FLUORIDE TOTAL UNITS : MG/L
PARAMETER : Fluoride Total

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	0.27		0.10
EE-92-32127 P32WRB01	ND		0.10
EE-92-32128 P32WRB02	ND		0.10
EE-92-32129 P32WFB01	0.78		0.10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200100

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32113 P32W001	39		2.0
EE-92-32114 P32W008	4.6		2.0
EE-92-32115 P32W008/DUP.	4.9		2.0
EE-92-32116 P32W009	11		2.0
EE-92-32117 P32W010	12		2.0
EE-92-32118 P32W010/DUP.	12		2.0
EE-92-32119 P32W062	12		2.0
EE-92-32120 P32W063	85		2.0
EE-92-32121 P32W064	150		2.0
EE-92-32122 P32W065	14		2.0
EE-92-32123 P32W066	9200		2.0
EE-92-32124 P32W067	23		2.0
EE-92-32125 P32W068	12		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

TEST CODE :WS04 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME :SULFATE UNITS : MG/L
PARAMETER : Sulfate

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-92-32126 P32W069	250		2.0
EE-92-32127 P32WRB01	ND		2.0
EE-92-32128 P32WRB02	ND		2.0
EE-92-32129 P32WFB01	ND		2.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

3200161

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB :EE-92-32158 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB03

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Chloride	ND		1.0	MG/L
Cyanide-complex	ND		0.010	MG/L
Fluoride Total	ND		0.10	MG/L
Sulfate	ND		2.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-2
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W008 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter		Units	Result	Detection Limit
NITROGEN	NITRITE	PPM	BDL	0.1
NITROGEN	NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN	NITRATE	PPM	BDL	0.1

3200162

Analytical Technologies, Inc.
11 EAST OUVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-3
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W008 D Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITRCGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-5
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W0010 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
E NITRITE	PPM	BDL	0.1
E NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN; NITRATE	PPM	BDL	0.1

3200163

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-6
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W0010 D Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	BDL	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITRGGEN, NITRATE	PPM	BDL	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0743-7
Received Date: 01/29/92
Sampled By: M.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W0RB01 Sample Date: 01/29/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	N/S	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN, NITRATE	PPM	N/S	0.1

end of report

3200164

Analytical Technologies, Inc.
11 EAST OUVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL

Lab I.D.#: 92-0790-9
Received Date: 01/30/92
Sampled By: G.G./M.H.

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Sample ID.: P32W0RB02 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	N/S	0.1
NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1
NITROGEN; NITRATE	PPM	N/S	0.1

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0828A
Order Number: P54180
Received Date: 01/31/92
Client: 05039
Sampled By: G.G./M.H.
Sample Date: 01/31/92
Sample Time: 0930

Project Number: UH9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0828A-1	P32WORB03	NITROGEN, NITRITE-NITRATE	PPM	BDL	0.1

Comments: PPM = Parts Per Million, mg/l; BDL = Below Detection Limit.
Method Reference: EPA 600/4-79-020, Revised March 1983.'

Approved By : Linda Regan

end of report

3200165

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: ECOLOGY & ENVIRONMENTAL
Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-0790-10
Received Date: 01/30/92
Sampled By: G.G./M.H.

Sample ID.: P32W0FB01 Sample Date: 01/30/92 Time: AM & PM

N/NO3 NITROGEN NITRATE

Parameter	Units	Result	Detection Limit
NITROGEN, NITRITE	PPM	N/S	0.1
NITROGEN, NITRITE-NITRATE	PPM	0.2	0.1
NITROGEN, NITRATE	PPM	N/S	0.1

end of report

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl Chloride	PRESENT	L	10
Chloroethane	ND		10
Methylene Chloride	14	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	6.0		5.0
Total-1,2-Dichloroethene	PRESENT	L	5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Brosodichloromethane	ND		5.0
1.2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromoaethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	290	X	5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1.1.2.2-Tetrachloroethane	ND		5.3
Toluene	20		5.0
Chlorobenzene	3300	X	5.0
Ethylbenzene	PRESENT	L	5.0
Acetone	46	B	10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Stprene	ND		5.0
Total Xylenes	7.0		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 D MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	ND		250
Chloroethane	ND		250
Methylene Chloride	PRESENT	LB	125
1,1-Dichloroethene	ND		125
1,1-Dichloroethane	ND		125
Total-1,2-Dichloroethene	ND		125
Chloroform	ND		125
1,2-Dichloroethane	ND		125
1.1.1-Trichloroethane	ND		125
Carbon Tetrachloride	ND		125
Bromodichloromethane	ND		125
1.2-Dichloropropane	ND		125
trans-1.3-Dichloropropene	ND		125
Trichloroethene	ND		125
Chlorodibrornomethane	ND		125
1.1.2-Trichloroethane	ND		125
Benzene	300		125
cis-1.3-Dichloropropene	ND		125
2-Chloroethylvinvl Ether	ND		250
Bromoform	ND		125
Tetrachloroethene	ND		125
1.1.2.2-Tetrachloroethane	ND		125
Toluene	ND		125
Chlorobenzene	8200	X	125
Ethylbenzene	ND		125
Acetone	PRESENT	LB	250
Carbon Disulfide	PRESENT	LA	125
2-Butanone	ND		250
Vinyl Acetate	ND		250
4-Methyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Styrene	ND		125
Total Xylenes	ND		125

OUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT, WITHIN LINEAR RANGE
A = PHENOMENON OF HETHODOLOGY

TEST CODE :VPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAHPLE ID LAB : EE-92-32115 MATRIX: WATER
SAHPLE ID CLIENT: P32W008/DUP.

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	17	B	5.0
1.1-Dichlorocthene	ND		5.0
1,1-Dichloroethane	7.0		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1.1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethanc	ND		5.0
1.2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibroaoacthane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	310	X	5.0
cis-1.3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethcne	ND		5.0
1.1.2,2-Tetrachloroethane	HD		5.0
Toluene	20		5.0
Chlorobenzene	3300	X	5.0
Ethylbenzene	PRESENT	L	5.0
Acetone	36	B	10
Carbon Disulfide	PRESENT	LA	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	7.0		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
X = EXCEEDS CALIBRATION LIMIT
A = PHENOMENON OF METHODOLOGY

3200167

TEST CODE :WPURG 1 JOB NUHBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32115 D MATRIX : WATER
SAMPLE ID CLIENT: P32W008/DUP.

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	ND		250
Chloroethane	ND		250
Methylene Chloride	PRESENT	LB	125
1,1-Dichloroethene	ND		125
1,1-Dichloroethane	ND		125
Total-1,2-Dichloroethene	ND		125
Chloroform	ND		125
1,2-Dichloroethane	ND		125
1,l.l-Trichloroethane	ND		125
Carbon Tetrachloride	ND		125
Bromodichloromethane	ND		125
1,2-Dichloropropane	ND		125
trans-1,3-Dichloropropene	ND		125
Trichloroethene	ND		125
Chlorodibromomethane	ND		125
1,1,2-Trichloroethane	ND		125
Benzene	320		125
cis-1,3-Dichloropropene	ND		125
2-Chloroethylvinyl Ether	ND		250
Bromoform	ND		125
Tetrachloroethene	ND		125
1.1.2.2-Tetrachloroethane	ND		125
Toluene	ND		125
Chlorobenzene	8200	X	125
Ethylbenzene	ND		125
Acetone	PRESENT	LB	250
Carbon Disulfide	PRESENT	LA	125
2-Butanone	ND		250
Vinyl Acetate	ND		250
4-Methyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Styrene	ND		125
Total Xylenes	ND		125

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT
X = EXCEEDS CALIBRATION LIHIT, WITHIN LINEAR RANGE
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1.2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND	*	5.0
Ethylbenzene	ND		5.0
Acetone	18	B	10
Carbon Disulfide	21	A	5.0
2-Butanonc	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
* = SEE NARRATIVE
A = PHENOMENON OF METHODOLOGY

3200168

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAHPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32118 MATRIX: WATER
SAMPLE ID CLIENT: P32W010/DUP.

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	17	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1.2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1.2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	18	B	10
Carbon Disulfide	5.0	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :VPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32131 MATRIX: WATER
SAMPLE ID CLIENT: P32WTB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Hethylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,Z-Dichloroethene	ND		5.0
Chlorofo m	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethanc	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	36	B	10
Carbon Disulfide	10	A	5.0
2-Butanone	38		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Bexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

3200169

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32161 MATRIX: WATER
SAMPLE ID CLIENT: P32WTB02

PARAMETER	RESULTS	0	ONT. LIHIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,Z-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	14	B	10
Carbon Disulfide	21	A	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED ONT. LIMIT
A = PHENOMENON OF THE METHODOLOGY

TEST CODE :VPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : BE-92-32127 MATRIX: VATER
SAMPLE ID CLIENT: P32WRB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	18	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichlorocthcne	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	PRESENT	L	5.0
Ethylbenzene	ND		5.0
Acetone	ND		10
Carbon Disulfide	PRESENT	LA	5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

3200170

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-9000 NASP TWTP GW SAMPLING
TEST NAHE : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32128 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB02

PARAMETER	RESULTS	Q	QNT. LIHIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	6.0	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	28	B	10
Carbon Disulfide	14	A	5.0
2-Butanone	32		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32158 MATRIX: VATER
SAMPLE ID CLIENT: P32WRB03

PARAMETER	RESULTS	Q	QNT. LIMIT
Chlotomethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibrocomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	14	B	10
Carbon Disulfide	20	A	5.0
2-Butanone	24		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Bexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF THE METHODOLOGY

3200171

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32129 MATRIX: VATER
SAMPLE ID CLIENT: P32WFB01

PARAMETER	RESULTS	0	ONT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	6.0	B	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	PRESENT	L	5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	43	B	10
Carbon Disulfide	26	A	5.0
2-Butanone	65		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Bexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Csnter

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : EE-92-32130 MATRIX: WATER
SAMPLE ID CLIENT: P32WPB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	PRESENT	LB	5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	30	B	10
Carbon Disulfide	30	A	5.0
2-Butanone	36		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrenc	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
A = PHENOMENON OF METHODOLOGY

2200172

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAHPLE ID LAB : EE-92-32114 HATRIX: WATER
SAHPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	58		10
1,4-Dichlorobenzene	44		10
1,2-Dichlorobenzene	16		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	47		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED QNT. LIMIT

TEST CODE :VBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : ACID PHENOL UNITS : UG/L
SAHPLE ID LAB : EE-92-32114 MATRIX: WATER
SAMPLE ID CLIENT: P32W008

PARAMETER	RESULTS	Q	ONT. LIMIT
Phenol	ND		10
2-Chlorophenol	PRESENT	L	10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : BASE NEUTRAL UNITS : UG/L
SMPLE ID LAB : EE-92-32115 MATRIX: WATER
SMPLE ID CLIENT: P32W008/DUP.

PARAMETER	RESULTS	a	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	68		10
1,4-Dichlorobenzene	50		10
1,2-Dichlorobenzene	18		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylraine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	49		10
Eexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphcnylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32115 MATRIX: WATER
SAMPLE ID CLIENT: P32W008/DUP.

PARAMETER	RESULTS	0	QNT. LIHIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	PRESENT	L	10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW'STATED QNT. LIHIT

TEST CODE :VAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32115 MATRIX: WATER
SAMPLE ID CLIENT: P32W008/DUP.

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		lo
2-Chlorophenol	PRESENT	L	10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Ilcthylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphcnol	ND		10
4-Hethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

3200175

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UA-9000 NASP TWTP GW SAHPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32117 MATRIX : WATER
SAMPLE ID CLIENT: P32W010

PARAHETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1.3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2.4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SMPLE ID LAB : E€-92-32117 MATRIX: WATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		10
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nicroaniline	ND		SO

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200176

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32117 MATRIX : WATER
SAMPLE ID CLIENT: P32W010

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2.4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

OUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOE NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32118 MATRIX: WATER
SAMPLE ID CLIENT: P32W010/DUP.

PARAMETER	RESULTS	Q	QNT. LIHIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Eexachlorobutadiene	ND		10
Bexachlorocyclopcntadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthenc	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hcxachlorobenzenc	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200177

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32118 MATRIX: WATER
SAMPLE ID CLIENT: P32W010/DUP.

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32118 MATRIX: WATER
SAMPLE ID CLIENT: P32W010/DUP.

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethy1phenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200173

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAHPLE ID LAB : EE-92-32127 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB01

PARAMETER	RESULTS	0	ONT. LIHIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylaminc	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaph thylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Bexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAHPLE ID LAB : 33-92-32127 MATRIX: WATER
SAHPLE ID CLIENT: P32WRB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		SO
3-Nitroaniline	ND		SO
Dibcnzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

3200173

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : BE-92-32127 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB01

PARAMETER	RESULTS	0	ONT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitroohenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32128 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB02

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Eexachlorobutadienc	ND		10
Bexachlorocyclopentadicne	ND		10
2-Chloronaphthalene .	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylenc	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthraccne	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32128 HATRIX: WATER
SAMPLE ID CLIENT: P32WRB02

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOU'STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAHPLE ID LAB : EE-92-32128 MATRIX: VATER
SAHPLE ID CLIENT: P32WRB02

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Hethylphcnol	ND		50
Pentachlorophenol	ND		50
2-Hcthylphenol	ND		10
4-Hcthylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200181

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UX-9000 NASP TWTP GW SWPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32158 MATRIX: VATER
SAMPLE ID CLIENT: P32WRBO3

PARAHETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	LB	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32158 MATRIX: WATER
SAMPLE ID CLIENT: P32WRB03

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrenc	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GU SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32158 MATRIX: VATER
SAMPLE ID CLIENT: P32WRB03

PARAMETER	RESULTS	Q	ONT. LIHIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2.4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32129 MATRIX: WATER
SAMPLE ID CLIENT: P32WFB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Eexathloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthcnc	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : EE-92-32129 MATRIX: WATER
SAMPLE ID CLIENT: P32WFB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW'STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : EE-92-32129 MATRIX: VATER
SAMPLE ID CLIENT: P32WFB01

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Hethylphcnol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

PROJECT NUMBER 3924020 0201 PROJECT NAME ECOLOGY & ENVIRN.
FIELD GROUP ECOW1 PROJECT MANAGER S.P. WOODWARD

RESULTS OF ANALYSIS

STORET CODE:					1501	1502	3501	3582	9501	9582	11501	11502
METHOD COOL:					R	R	R	R	R	R	R	R
PARAMETER:					ALPHA	ALPHA.CE	BETA	BETA,CE	RA226	RA226,CE	RA228	RA228,CE
UNITS:					PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L	PC/L	+/-PC/L
FLD.GRP.	#	SAMPLE ID	DATE	TIME								
ECOW1	1	P32W001	01/29/92	10:30	1.0	1.7	8.6	4.0	0.3	8.4	0.9	8.6
ECOUI	11	P32W008	01/29/92	13:45	3.5	2.8	<0.3	8.1	1.3	0.5	1.1	8.6
ECOW1	12	P32W008D	01/29/92	13:55	2.4	3.8	7.6	Y.2	0.9	0.4	8.6	U.6
ECOW1	13	P32W009	01/29/92	14:30	<0.1	2.4	3.8	4.7	8.5	0.3	0.5	8.6
ECOW1	14	P32W010	01/29/92	15:00	<0.1	1.6	(6.3	3.6	<0.2	0.3	<0.3	1.1
ECOUI	15	P32W010D	01/29/92	15:10	2.3	3.3	7.2'	5.5	8.4	8.3	1.1	1.2
ECOW1	18	P32W062	01/30/92	14:00	<0.1	2.5	9.7	5.2	8.8	U.4	<0.3	6.7
ECOUI	19	P32W063	01/30/92	14:30	9.9	13.8	33.5	24.2	1.9	8.9	8.6	0.e
ECOW1	20	P32W064	01/30/92	15:00	26.0	11.4	<0.3	16.4	0.4	0.4	1.6	0.7
ECOUI	6	P32W065	01/30/92	11:00	2.6	3.0	28.5	13.4	1.1	0.6	<0.3	0.5
ECOW1	16	P32W066	01/30/92	11:30	31.9	125	150	174	20.1	2.0	u.5	8.E
ECOUI	17	P32W067	01/30/92	12:00	6.9	5.7	<0.3	9.6	H.3	0.3	0.5	8.7
ECOUI	4	P32W068	01/30/92	10:00	8.5	7.6	53.1	15.2	1.5	1.3	<0.3	0.6
ECOUI	5	P32W069	01/30/92	10:30	16.4	16.9	78.8	26.6	1.1	0.6	1.6	0.6
ECOUI	3	P32WOFB01	01/30/92	08:30	<0.1	0.b	8.U	2:	0.4	0.5	<0.3	0.6
ECOW1	10	P32WORB01	01/29/92	10:00	R.8	0.6	1.0	1.8	<0.1	0.4	0.3	0.6
ECOUI	2	P32WORB02	01/30/92	08:00	0.3	9.6	2.9	1.9	<0.1	8.9	iU.3	0.5
ECOUI	21	P32WORB03	01/31.92	09:30	0.7	0.9	1.1	1.3	<0.2	0.4	0.3	0.7
ECOUI	7	P32WPCD-1	01/31/92	10:30	11.0	9.2	22.8	16.9	0.8	0.6	0.6	0.5
ECOW1	8	P32WPC1-1	01/31/92	11:45	32.U	15.2	31.7	18.5	2.9	1.0	0.7	8.6
ECOUI	9	P32WPCS-1	01/31/92	12:30	3.1	2.5	1.0	3.4	0.8	0.5	1.1	0.6

Note: CE = Counting error
* - Laboratory replicate analysis is outside of criteria (7.2 and 0.0 PC/L)

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

ECOLOGY & ENVIRONMENTAL
316 S. BAYLEN ST.
SUITE 670
GULF BREEZE FL 32501-0000

Lab I.D.#: 92-0743
Order Number: P53861
Received Date: 01/29/92
Client: 05039
Sampled By: M.G./M.H.
Sample Date: 01/29/92
Sample Time: AM & PM

Project Number: UH 9000
Project Name: IWTP GW SAMPLING NASP
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
0743-1	P32W001	TOTAL COLIFORM	CLY/100	28	4
0743-2	P32W008	TOTAL COLIFORM	CLY/100	BDL	4
0743-3	P32W008 D	TOTAL COLIFORM	CLY/100	BDL	4
0743-4	P32W009	TOTAL COLIFORM	CLY/100	BDL	2
0743-5	P32W0010	TOTAL COLIF	CLY/100	BDL	2
0743-6	P32W0010 D	TOTAL COLIF	CLY/100	BDL	2
0743-1	P32W001	TURBIDITY	N.T.U.	14	0.1
0743-2	P32W008	TURBIDITY	N.T.U.	15	0.1
0743-3	P32W008 D	TURBIDITY	N.T.U.	13	0.1
3743-4	P32W009	TURBIDITY	N.T.U.	5.2	0.1
0743-5	P32W0010	TURBIDITY	N.T.U.	3.4	0.1
0743-6	P32W0010 D	TURBIDITY	N.T.U.	4.5	0.1

Comments: PPM = Parts Per Million, mg/l. Method References: EPA 600/4-79-020, Revised, March 1983 and Standard Methods, 16th Edition, 1985.
BDL = Below Detection Limits.

Approved By : Linda Perry

3200185

JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWIP GW SAMPLING
SAHPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER		RESULTS	Q	QNT. LIHIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	ND		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER		RESULTS	Q	QNT. LIMIT	UNITS
Silver	(ICP)	ND		10	UG/L
Arsenic	(FU)	ND		5.0	UG/L
Barium	(ICP)	ND		20	UG/L
Cadmium	(ICP)	ND		5.0	UG/L
Chromium Total	(ICP)	ND		10	UG/L
Copper	(ICP)	ND		20	UG/L
Iron	(ICP)	ND		50	UG/L
Manganese	(ICP)	ND		10	UG/L
Sodium	(ICP)	ND		500	UG/L
Nickel	(ICP)	ND		20	UG/L
Lead	(FU)	ND		5.0	UG/L
Selenium	(FU)	ND		5.0	UG/L
Vanadium	(ICP)	ND		20	UG/L
Zinc	(ICP)	ND		10	UG/L
Mercury		ND		0.20	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9200.209

(ug/L)

Parameter	E & E Laboratory No. 92-32116	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic	32120	ND	ND	NC
Barium		32	31	5.0
Cadmium		ND	ND	NC
Chromium		ND	ND	NC
Copper		ND	ND	NC
Iron		1400	1400	<1.0
Lead	32120	ND	ND	NC
flanganese		20	19	2.0
flercury	32130	ND	ND	NC
Nickel		ND	ND	NC
Selenium	32120	ND	ND	NC
Silver		ND	ND	NC
Sodium		3500	3600	3.0
Vanadium		ND	ND	NC
Zinc		ND	12	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD IS CALCULATED DIRECTLY FROH THE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED WATER SAMPLES

9200.209

(ug/L)

Parameter	E & E Laboratory No. 92-32116	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic	32120	ND	40	29	72
Barium		32	2000	2200	108
Cadmium		ND	50	55	111
Chromium		ND	200	220	111
Copper		ND	250	270	109
Iron		1400	1000	2600	113
Lead	32120	ND	20	19	94
Hanganese		20	500	S80	111
Mercury	32130	ND	1.0	0.96	96
Nickel		ND	500	540	109
Selenium	32120	ND	10	8.4	84
Silver		ND	S0	53	106
Vanadium		ND	500	500	101
Zinc		ND	500	550	110

ND = NOT DETECTED

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9200.214

(ug/L)

Parameter	E & E Laboratory No. 92-32158	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Mercury		ND	ND	NC

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPDs ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9200.214

(ug/L)

Parameter	E & E Laboratory No. 92-32158	Original Value	Amount Added	Amount Determined	Percent Recovery
Mercury		ND	1.0	1.0	101

ND = NOT DETECTED

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROH THE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9200.214

(ug/L)

Parameter	E & E Laboratory No. 92-32157	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	40	38	95
Barium		22	2000	1900	93
Cadmium		ND	50	48	95
Chromium Total		ND	200	190	96
Copper		ND	250	240	95
Iron		1600	1000	2800	120
Lead		ND	20	17	86
Manganese		68	500	540	94
Nickel		ND	500	470	94
Selenium		ND	10	8.4	84
Silver		ND	50	45	91
Vanadium		ND	500	480	96
Zinc		64	500	550	96

ND = NOT DETECTED

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9200.214

(ug/L)

Parameter	E & E Laboratory No. 92-32157	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Barium		22	22	0.4
Cadmium		ND	ND	NC
Chromium Total		ND	ND	NC
Copper		ND	ND	NC
Iron		1600	1600	1.3
Lead		ND	ND	NC
Manganese		68	70	3.9
Nickel		ND	ND	NC
Selenium		No	ND	NC
Silver		No	ND	NC
Sodium		180000	190000	2.6
Vanadium		ND	ND	NC
Zinc		64	65	2.8

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPDs ARE CALCULATED DIRECTLY FROH THE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9200.214

(mg/L)

Parameter	E & E Laboratory No. 92-	Original Value	Amount Added	Amount Determined	Percent Recovery
Chloride	32159	16	20	35	92
Cyanide-complex					
	Batch QC	ND	4.4	4.0	90
Fluoride Total					
	Batch QC	ND	1.0	0.94	94
Sulfate	32159	18	10	27	87

ND = NOT DETECTED

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9200.214

(mg/L)

Parameter	€ & E Laboratory No. 92-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Chloride	32159	16	15	8.2
Fluoride Total				
	Batch QC	0.21	0.21	0.5
	Batch QC	0.78	0.78	0.6
Sulfate	32159	18	18	1.1

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPDs ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9200.209

(mg/L)

Parameter	E C E Laboratory No. 92-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
CHLORIDE	32115	24	23	0.4
	Batch QC	16	15	8.2
	Batch QC	5.3	4.8	9.9
CYANIDE COMPLEX	32134	0.058	0.071	20
FLUORIDE TOTAL	32117	0.21	0.21	0.5
	32129	0.78	0.77	0.6
	32116	0.27	0.26	0.7
SULFATE	32119	12	14	9.2
	32125	12	10	17
	Batch QC	18	18	1.1

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD IS CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED WATER SAMPLES

9200.209

(mg/L)

Parameter	E & E Laboratory No. 92-	Original Value	Amount Added	Amount Determined	Percent Recovery
CHLORIDE	32115	24	20	42	91
	Batch QC	16	20	35	92
	Batch QC	5.3	20	25	98
CYANIDE COMPLEX	32128	ND	0.09	0.06	70
	Batch QC	ND	4.4	4.0	90
FLUORIDE TOTAL	32125	ND	1.0	0.94	94
SULFATE	32119	12	10	21	86
	32125	12	10	22	93
	Batch QC	18	10	27	87

ND = NOT DETECTED

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

TEST CODE :WPURG 1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		10
Broaomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Hethylene Chloride	7.0		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1.2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	PRESENT	L	10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAHE : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 1 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Hethylene Chloride	17		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1.2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Broaodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	PRESENT	L	10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 2 MATRIX: VATER

PARAHETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	9.0		5.0
1,1-Dichloroethene	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bromodichloromethane	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachloroethene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	12		10
Carbon Disulfide	ND		5.0
2-Butanone	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pentanone	ND		10
2-Hexanone	ND		10
Styrene	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WPURG 1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : PURGEABLES UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 3 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloromethane	ND		lo
Bromomethane	ND		10
Vinyl Chloride	ND		10
Chloroethane	ND		10
Methylene Chloride	5.0		5.0
1.1-Dichloroethcne	ND		5.0
1,1-Dichloroethane	ND		5.0
Total-1.2-Dichlorocthene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		5.0
Bronodichloromethanc	ND		5.0
1,2-Dichloropropane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Benzene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
2-Chloroethylvinyl Ether	ND		10
Bromoform	ND		5.0
Tetrachlorocthene	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
To1uene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		5.0
Acetone	PRESENT	L	10
Carbon Disulfide	ND		5.0
2-Butanonc	ND		10
Vinyl Acetate	ND		10
4-Methyl-2-Pcntanone	ND		10
2-Hexanonc	ND		10
Styrcnc	ND		5.0
Total Xylenes	ND		5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200193

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E & E Lab. No. 92- / Sample Identity	32113	32114	32114 D	32115	Quantitation Limits
Bis (Chloromethyl) Ether		ND	ND	ND C	ND	***
Dichlorodifluoromethane		ND	ND	ND C	ND	<10
1,2-Dichloropropylene		ND	ND	ND C	ND	<10
Trichlorofluoromethane		ND	ND	ND C	ND	<10
Trimethyl Benzene		ND	ND	ND C	ND	<10
Acrolein		ND	ND	ND C	ND	<100
Acrylonitrile		ND	ND	ND C	ND	<10
Alkylated Benzene		ND	380	450	410	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

C = Quantitation limit in far right column does not reflect dilution at vhich this sample vas analyzed.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E 6 E Lab. No. 92- / Sample Identity	32115 D	32116	32117	32118	Quantitation Limits
Bis (Chloromethyl) Ether		N D C	ND	ND	ND	***
Dichlorodifluoromethane		N D C	ND	ND	ND	<10
1,2-Dichloropropylene		N D C	ND	ND	ND	<10
Trichlorofluoromethane		N D C	ND	ND	ND	<10
Triwthyl Benzene		N D C	ND	ND	ND	<10
Acrolein		N D C	ND	ND	ND	<100
Acrylonitrile		ND C	ND	ND	ND	<10
Alkylated Benzene		400	ND	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present belov measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

C = Quantitation limit in far right column does not reflect dilution at which this sample vas analyzed.

3200194

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32119	32120	32121	32122	Ouantitation Limits
Compound	Sample Identity					
Bis (Chloromethyl) Ether		ND	ND	ND	ND	***
Dichlorodifluoromethane		ND	ND	ND	ND	<10
1,2-Dichloropropylene		ND	ND	ND	ND	<10
Trichlorofluoromethane		ND	ND	ND	ND	<10
Trimethyl Benzene		ND	ND	ND	ND	<10
Acrolein		ND	ND	ND	ND	<100
Acrylonitrile		ND	ND	ND	ND	<10
Alkylated Benzene		ND	ND	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E & E Lab. No. 92- / Sample Identity	32123	32123 D	32124	32125	Quantitation Limits
Bis (Chloromcthyl) Ether		ND	N D C	ND	ND	***
Dichlorodifluoroaethane		ND	N D C	ND	ND	<10
1,2-Dichloropropylene		ND	N D C	ND	ND	<10
Trichlorofluoromethe		ND	N D C	ND	ND	<10
Trimethyl Benzene		24	N D C	ND	ND	<10
Acrolein		ND	N D C	ND	ND	<100
Acrylonitrile		ND	N D C	ND	ND	<10
Alkylated Benzene		32	N D C	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

C = Quantitation limit in far right column does not reflect dilution at which this sample was analyzed.

3200195

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E & E Lab. No. 92- / Sample Identity	32126	32126 D	32127	32128	Quantitation Limits
Bis (Chloromethyl) Ether		ND C	ND C	ND	ND	***
Dichlorodifluoromethane		ND C	ND C	ND	ND	<10
1,2-Dichloropropylene		ND C	ND C	ND	ND	<10
Trichlorofluoromethane		ND C	ND C	ND	ND	<10
Trimethyl Benzene		ND C	ND C	ND	ND	<10
Acrolein		ND C	ND C	ND	ND	<100
Acrylonitrile		ND C	ND C	ND	ND	<10
Alkylated Benzene		ND C	ND C	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

C = Quantitation limit in far right column does not reflect dilution at which this sample was analyzed.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32129	32130	32131	Method Blank 1	Quantitation Limits
Compound	Sample Identity					
Bis (Chloronethyl) Ether		ND	ND	ND	ND	***
Dichlorodifluoromethane		ND	ND	ND	ND	<10
1,2-Dichloropropylene		ND	ND	ND	ND	<10
Trichlorofluoromethane		ND	ND	ND	ND	<10
Trimethyl Benzene		ND	ND	ND	ND	<10
Acrolein		ND	ND	ND	ND	<100
Acrylonitrile		ND	ND	ND	ND	<10
Alkylated Benzene		ND	ND	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E 6 E Lab. No. 92- / Sample Identity	Method Blank 2	Method Blank 3	Quantitation Limits
Bis (Chloromcthyl) Ether		ND	ND	***
Dichlorodifluoromethane		ND	ND	<10
1,2-Dichloropropylene		ND	ND	<10
Trichlorofluoromethane		ND	ND	<10
Trimethyl Benzene		ND	ND	<10
Acrolein		ND	ND	<100
Acrylonitrile		ND	ND	<10
Alkylated Benzene		ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample # 32117)

9200.209

(ug/L)

Compound	Original Value	Amount Added	Amount Determined MS	Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
1,1-Dichloroethene	ND	50	40	42	80	a4	5
Trichlorocthcne	ND	50	61	42	82	84	2
Chlorobenzene	ND	50	45	43	90	86	4
Toluene	ND	50	44	43	88	86	2
Benzene	ND	50	44	44	88	88	0

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (HSD)
(Sample # 32127)

9200.209

(ug/L)

Compound	Original Value	Amount Added	Amount Determined MS	Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
1,1-Dichloroethene	ND	50	39	46	78	92	16
Trichloroethene	ND	50	45	50	90	100	10
Chlorobenzene	ND	50	45	49	90	98	8
Toluene	ND	50	41	48	82	96	16
Benzene	ND	50	45	50	90	100	10

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (US) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample # 32131)

9200.209

(ug/L)

Compound	Original Value	Amount Added	Amount Determined MS	Amount Determined MSD	Percent Recovery US	Percent Recovery MSD	RPD
1,1-Dichloroethene	ND	50	50	48	100	96	4
Trichloroethene	ND	50	50	49	100	98	2
Chlorobenzene	ND	50	50	50	100	100	0
Toluene	ND	50	50	51	100	102	2
Benzene	ND	50	52	50	104	100	4

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
1,2-Dichloroethane-d4	32113	50	50	100
	32114	50	40	80
	32114 D	50	52	104
	32115	50	36	72 L
	32115 D	50	50	100
	32116	50	46	92
	32117	50	48	96
	32118	50	45	90
	32119	50	40	80
	32120	50	40	80
Toluene-d8	32113	50	50	100
	32114	50	93	186 H
	32114 D	50	55	110
	32115	50	80	160 H
	32115 D	50	54	108
	32116	50	45	90
	32117	50	47	94
	32118	50	44	88
	32119	50	39	78
	32120	50	39	78
4-Bromofluorobenzene	32113	50	45	90
	32114	50	84	168 H
	32114 D	50	47	94
	32115	50	74	118 H
	32115 D	50	48	96
	32116	50	41	82
	32117	50	42	84
	32118	50	39	78
	32119	50	35	70 L
	32120	50	34	68 L

With the exception of those recoveries flagged "L" and "H", these recoveries are acceptable to E & E, Inc. guidelines.

D = Analyzed at a dilution.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
1,2-Dichloroethane-d4	32121	50	46	92
	32122	50	51	102
	32123	50	48	96
	32123 D	50	50	100
	32124	50	52	104
	32125	50	52	104
	32126	50	57	114
	32126 D	50	54	108
	32127	50	43	86
	32128	SO	55	110
Toluene-d8	32121	50	4s	90
	32122	50	48	96
	32123	50	50	100
	32123 D	50	51	102
	32124	50	52	104
	32125	50	50	100
	32126	50	56	112
	32126 D	50	51	102
	32127	50	42	84
	32128	50	54	108
4-Bromofluorobenzene	32121	SO	40	80
	32122	50	42	84
	32123	50	44	88
	32123 D	50	43	86
	32124	50	46	92
	32125	50	44	88
	32126	50	48	96
	32126 D	SO	44	88
	32127	50	36	72 L
	32128	50	47	94

Vith the exception of those recoveries flagged "L", these recoveries are acceptable to E & E, Inc. guidelines.

D = Analyzed at a dilution.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
1,2-Dichloroethane-d4	32129	50	52	104
	32130	50	51	102
	32131	50	56	112
	Method Blank 1	50	48	96
	Method Blank 2	50	45	90
	Method Blank 3	50	55	110
Toluene-d8	32129	50	50	100
	32130	50	49	98
	32131	50	51	102
	Method Blank 1	50	44	88
	Method Blank 2	50	52	104
	Method Blank 3	50	51	102
4-Bromofluorobenzene	32129	50	43	86
	32130	50	42	84
	32131	50	44	88
	Method Blank 1	50	40	80
	Method Blank 2	50	44	88
	Method Blank 3	50	44	88

These recoveries are acceptable to E & E, Inc. guidelines.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.214

Compound	E 6 E Lab. No. 92- / Sample Identity	32157	32158	32159	32160	Detection Limits
Bis (Chloromethyl) Ether		ND	ND	ND	ND	***
Dichlorodifluoromethane		ND	ND	ND	ND	<10
1,2-Dichloropropylene		ND	ND	ND	ND	<10
Trichlorofluoromethane		ND	ND	ND	ND	<10
Trimethyl Benzene		ND	ND	ND	ND	<10
Acrolein		ND	ND	ND	ND	<100
Acrylonitrile		ND	ND	ND	ND	<10
Alkylated Benzene		ND	ND	ND	ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present belov measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.214

Compound	E & E Lab. No. 92- Sample Identity	Method Blank	Detection Limits
Bis (Chloromethyl) Ether		ND	***
Dichlorodifluoromethane		ND	<10
1,2-Dichloropropylene		ND	<10
Trichlorofluoromethane		ND	<10
Trimethyl Benzene		ND	<10
Acrolein		ND	<100
Acrylonitrile		ND	<10
Alkylated Benzene		ND	***

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

*** Compound searched for, detection limit not determined due to unavailability of standard.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.214

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
1,2-Dichloroethane-d4	32197	50	57	114
	32158	50	52	104
	32159	50	51	102
	32160	50	50	100
	32161	50	49	98
	Hethod Blank	50	58	116
Toluene-d8	32157	50	61	122
	32158	50	55	110
	32159	50	53	106
	32160	50	49	98
	32161	50	49	98
	Hethod Blank	50	62	124
4-Bromofluorobenzene	32157	50	52	104
	32158	50	45	90
	32159	50	45	90
	32160	50	42	84
	32161	50	42	84
	Hethod Blank	50	53	106

These recoveries are acceptable to E 6 E, Inc. guidelines.

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIHIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2.6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	L	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	No		10
4-Nitroaniline	No		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200202

TEST CODE :WAPBNA1 JOB NUMBER :9200.214

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX : WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :VBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 1 MTRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		10
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Eexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Ecxachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylaaine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidinc	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	L	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 1 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		10
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Methylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 1 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Hethylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Hethylphenol	ND		10
4-Hethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TUTP GW SAHPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 2 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hexachlorobutadiene	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2,4-Dinitrotoluene	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthracene	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	PRESENT	L	10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIHIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 2 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		lo
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Hethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 2 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Phenol	ND		lo
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2,4-Dinitrophenol	ND		50
4-Nitrophenol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Wethylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 3 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Bis(2-Chloroethyl)Ether	ND		lo
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
Bis(2-Chloroisopropyl)Ether	ND		10
N-Nitrosodipropylamine	ND		10
Hexachloroethane	ND		10
Nitrobenzene	ND		10
Isophorone	ND		10
Bis(2-Chloroethoxy)Methane	ND		10
1,2,4-Trichlorobenzene	ND		10
Naphthalene	ND		10
Hcxachlorobutadicne	ND		10
Hexachlorocyclopentadiene	ND		10
2-Chloronaphthalene	ND		10
Dimethyl Phthalate	ND		10
Acenaphthylene	ND		10
Fluorene	ND		10
Acenaphthene	ND		10
2.4-Dinitrotoluenc	ND		10
2,6-Dinitrotoluene	ND		10
Diethyl Phthalate	ND		10
4-Chlorophenyl Phenyl Ether	ND		10
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl Phenyl Ether	ND		10
Hexachlorobenzene	ND		10
Phenanthrene	ND		10
Anthraccne	ND		10
Di-N-Butyl-Phthalate	ND		10
Fluoranthene	ND		10
Benzidine	ND		50
Pyrene	ND		10
Butyl Benzyl Phthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(A)Anthracene	ND		10
Bis(2-Ethylhexyl)Phthalate	ND		10
Chrysene	ND		10
Di-N-Octyl Phthalate	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

3200206

TEST CODE :WBNBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : BASE NEUTRAL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 3 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzo(B)Fluoranthene	ND		10
Benzo(K)Fluoranthene	ND		10
Benzo(A)Pyrene	ND		10
Indeno(1,2,3-cd)Pyrene	ND		10
Dibenzo(A,H)Anthracene	ND		10
Benzo(G,H,I)Perlyene	ND		10
Benzyl Alcohol	ND		10
4-Chloroaniline	ND		10
2-Uethylnaphthalene	ND		10
2-Nitroaniline	ND		50
3-Nitroaniline	ND		50
Dibenzofuran	ND		10
4-Nitroaniline	ND		50

QUALIFIERS: C = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

TEST CODE :WAPBNA1 JOB NUMBER :9200.209

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-9000 NASP TWTP GW SAMPLING
TEST NAME : ACID PHENOL UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK 3 MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIHIT
Phenol	ND		10
2-Chlorophenol	ND		10
2-Nitrophenol	ND		10
2,4-Dimethylphenol	ND		10
2,4-Dichlorophenol	ND		10
4-Chloro-3-Methylphenol	ND		10
2,4,6-Trichlorophenol	ND		10
2.4-Dinitrophenol	ND		50
4-Nitrophcnol	ND		50
4,6-Dinitro-2-Methylphenol	ND		50
Pentachlorophenol	ND		50
2-Methylphenol	ND		10
4-Methylphenol	ND		10
Benzoic Acid	ND		50
2,4,5-Trichlorophenol	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED QNT. LIMIT

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32113	32114	32115	32116	Quantitation Lirnits
Compound	Sample Identity					
3,4-Benzofluoranthene Isomers (1)		ND	ND	ND	ND	<10
1.2-Diphenylhydrazine		ND	ND	ND	ND	<50
N-Nitrosodiphenylamide		ND	ND	ND	ND	***
Methyl Dihydro Indene		ND	20	21	ND	***
Hydroxymethyl Pentanone		ND	ND	ND	ND	<10
Methyl Ethyl Phenol		ND	ND	ND	ND	***
Di-Methyl Ethyl Phenol		ND	ND	ND	ND	***
Tetramethyl Butyl Phenol (Octylphenol)		ND	ND	ND	*	<10
Tetramethyl Benzene		ND	98	110	ND	. <10

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

(1) Same as Benzo(b)fluoranthene.

*** Cornpound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32117	32118	32119	32120	Quantitation Limits
Compound	Sample Identity					
3,4-Benzofluoranthene Isomers (1)		ND	ND	ND	ND	<10
1,2-Diphenylhydrazine		ND	ND	ND	ND	<50
N-Nitrosodiphenylamide		ND	ND	ND	ND	***
Hethyl Dihydro Indene		ND	ND	ND	ND	***
Hydroxymethyl Pentanone		ND	ND	ND	ND	<10
Methyl Ethyl Phenol		ND	ND	ND	ND	***
Di-Methyl Ethyl Phenol		ND	ND	ND	ND	
Tetramethyl Butyl Phenol (Octylphenol)		30	33	ND	ND	<10
Tetramethyl Benzene		ND	ND	ND	ND	<10

ND = Rot detected

B = Compound also detected in laboratory method blank.

* Compound present below aeasurable detection limit.

(1) Sue as Benzo(b)fluoranthene.

*** Compound searched for, detection limit not determined due to unavailability of standard.

3200208

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32121	32122	32123	32124	Quantitation Limits
Compound	Sample Identity					
3,4-Benzofluoranthene Isomers (1)		ND	ND	ND	ND	<10
1,2-Diphenylhydrazine		ND	ND	ND	ND	<50
N-Nitrosodiphenylamide		ND	ND	ND	ND	***
Methyl Dihydro Indene		ND	ND	ND	ND	***
Hydroxymethyl Pentanone		ND	ND	ND	ND	<10
Methyl Ethyl Phenol		ND	ND	*	ND	***
Di-Methyl Ethyl Phenol		ND	ND	ND	ND	***
Tetramethyl Butyl Phenol (Octylphenol)		11	ND	ND	*	<10
Tetramethyl Benzene		ND	ND	*	ND	<10

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

(1) Same as Benzo(b)fluoranthene.

*** Compound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

	E & E Lab. No. 92-	32125	32126	32127	32128	Quantitation Limits
Compound	Sample Identity					
3,4-Benzofluoranthene Isomers (1)		ND	N D C	ND	ND	<10
1,2-Diphenylhydrazine		ND	N D C	ND	ND	<50
N-Nitrosodiphenylamide		ND	N D C	ND	ND	***
Methyl Dihydro Indene		ND	N D C	ND	ND	***
Hydroxymethyl Pentanone		ND	N D C	ND	ND	<10
Methyl Ethyl Phenol		ND	N D C	ND	ND	***
Di-Methyl Ethyl Phenol		ND	N D C	ND	ND	***
Tetramethyl Butyl Phenol (Octylphenol)		ND	* C	ND	ND	<10
Tetramethyl Benzene		ND	ND C	ND	ND	<10

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

(1) Sue as Benzo(b)fluoranthene.

*** Compound searched for, detection limit not determined due to unavailability of standard.

C = Quantitation limit in far right column does not reflect dilution at vhich this sample vas analyzed.

3200209

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.209

Compound	E & E Lab. No. 92- / Sample Identity	32129	Method Blank 1	Method Blank 2	Method Blank 3	Quantitation Limits
3,4-Benzofluoranthene Isomers (1)		ND	ND	ND	ND	<10
1.2-Diphenylhydrazine		ND	ND	ND	ND	<50
N-Nitrosodiphenylamide		ND	ND	ND	ND	***
Methyl Dihydro Indene		ND	ND	ND	ND	***
Hydroxymethyl Pentanone		ND	ND	ND	ND	<10
Methyl Ethyl Phenol		ND	ND	ND	ND	***
Di-Methyl Ethyl Phenol		ND	ND	ND	ND	***
Tetramethyl Butyl Phenol (Octylphenol)		ND	ND	ND	ND	<10
Tetramethyl Benzene		ND	ND	ND	ND	<10

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

(1) Same as Benzo(b)fluoranthene.

*** Compound searched for, detection limit not determined due to unavailability of standard.

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF VATER MATRIX SPIKE
(Sample # 32118)

9200.209

(ug)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery	E&E QC Limits
1,2,4-Trichlorobenzene	ND	100	56	56	15 - 115
Accnaphthene	ND	100	60	60	42 - 114
2,4-Dinitrotoluene	ND	100	81	81	18 - 156
Pyrene	ND	100	92	92	25 - 169
N-Nitroso-di-n-propylamine	ND	100	56	56	35 - 113
1,4-Dichlorobenzene	ND	100	40	40	a - 104
Pentachlorophenol	ND	200	65	32	0 - 140
Phenol	ND	200	44	22	12 - 66
2-Chlorophenol	ND	200	95	48	17 - 113
4-Chloro-3-methylphenol	ND	200	113	56	20 - 116
4-Nitrophenol	ND	200	32	16	0 - 75

These recoveries are within E & E, Inc. limits.

ND = NOT DETECTED

3200210

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 32129)

9200.209

(ug)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery	E&E QC Limits
1,2,4-Trichlorobenzene	ND	100	80	80	15 - 115
Acenaphthene	ND	100	67	67	42 - 114
2,4-Dinitrotoluene	ND	100	85	85	18 - 156
Pyrene	ND	100	95	95	25 - 169
N-Nitroso-di-n-propylamine	ND	100	67	67	35 - 113
1,4-Dichlorobenzene	ND	100	61	61	8 - 104
Pentachlorophenol	ND	200	122	61	0 - 140
Phenol	ND	200	44	22	12 - 66
2-Chlorophenol	ND	200	106	53	17 - 113
4-Chloro-3-methylphenol	ND	200	123	62	20 - 116
4-Nitrophenol	ND	200	50	25	0 - 75

These recoveries are within E & E. Inc. limits.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # Spiked Blank)

9200.209

(ug)

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery	E&E QC Limits
1,2,4-Trichlorobenzene	ND	100	52	52	15 - 115
Acenaphthene	ND	100	55	55	42 - 114
2,4-Dinitrotoluene	ND	100	82	82	18 - 156
Pyrene	ND	100	97	97	25 - 169
N-Nitroso-di-n-propylamine	ND	100	51	51	35 - 113
1,4-Dichlorobenzene	ND	100	35	35	8 - 104
Pentachlorophenol	ND	200	169	84	0 - 140
Phenol	ND	200	54	27	12 - 66
2-Chlorophenol	ND	200	114	57	17 - 113
4-Chloro-3-methylphenol	ND	200	138	69	20 - 116
4-Nitrophenol	ND	200	58	29	0 - 75

These recoveries are within E & E, Inc. linits.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
Nitrobenzene-d5	32113	100	64	64
	32114	100	43	43
	32115	100	46	46
	32116	100	62	62
	32117	100	48	48
	32118	100	68	68
	32119	100	51	51
	32120	100	65	65
	32121	100	62	62
	32122	100	76	76
2-Fluorobiphenyl	32113	100	55	55
	32114	100	45	45
	32115	100	46	46
	32116	100	50	50
	32117	100	45	45
	32118	100	57	57
	32119	100	45	45
	32120	100	59	59
	32121	100	56	56
	32122	100	63	63
Terphenyl-d14	32113	100	77	77
	32114	100	67	67
	32115	100	57	57
	32116	100	64	64
	32117	100	64	64
	32118	100	73	73
	32119	100	56	56
	32120	100	76	76
	32121	100	63	63
	32122	100	73	73

These recoveries are acceptable to E 6 E, Inc. guidelines.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
Nitrobenzene-d5	32123	100	4	4 L
	32124	100	67	67
	32125	100	63	63
	32126	100	75	75
	32127	100	76	76
	32128	100	72	72
	32129	100	66	66
	Method Blank 1	100	69	69
	nethod Blank 2	100	53	53
	Method Blank 3	100	78	78
2-Fluorobiphenyl	32123	100	58	58
	32124	100	58	58
	32125	100	60	60
	32126	100	72	72
	32127	100	68	68
	32128	100	63	63
	32129	100	59	59
	nethod Blank 1	100	63	63
	Method Blank 2	100	52	52
	Method Blank 3	100	68	68
Terphenyl-d14	32123	100	76	76
	32124	100	68	68
	32125	100	77	77
	32126	100	66	66
	32127	100	86	86
	32128	100	79	79
	32129	100	78	78
	Hethod Blank 1	100	102	102
	Hethod Blank 2	100	76	76
	Method Blank 3	100	82	82

With the exception of those recoveries flagged "L", these recoveries are acceptable to E & E, Inc. guidelines.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
2-Fluorophenol	32113	200	69	34
	32114	200	65	32
	32115	200	48	24
	32116	200	62	31
	32117	200	54	27
	32118	200	63	32
	32119	200	52	26
	32120	200	40	20 L
	32121	200	74	37
	32122	200	73	36
Phenol-d5	32113	200	54	27
	32114	200	52	26
	32115	200	45	22
	32116	200	49	24
	32117	200	45	22
	32118	200	47	24
	32119	200	40	20
	32120	200	41	20
	32121	200	60	30
	32122	200	61	30
2,4,6-Tribromophenol	32113	200	116	58
	32114	200	96	48
	32115	200	76	38
	32116	200	83	42
	32117	200	69	34
	32118	200	91	46
	32119	200	74	37
	32120	200	85	42
	32121	200	131	66
	32122	200	128	66

With the exception of those recoveries flagged "L", these recoveries are acceptable to E & E, Inc. guidelines.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.209

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
2-Fluorophenol	32123	200	68	34
	32124	200	69	34
	32125	200	64	32
	32126	200	46	33
	32127	200	69	34
	32128	200	69	34
	32129	200	52	26
	Hethod Blank 1	200	81	40
	Hethod Blank 2	200	54	27
	Hethod Blank 3	200	67	34
Phenol-d5	32123	200	56	28
	32124	200	53	26
	32125	200	51	26
	32126	200	46	33
	32127	200	54	27
	32128	200	47	24
	32129	200	41	20
	Method Blank 1	200	60	30
	Method Blank 2	200	51	26
	Hethod Blank 3	200	56	28
2,4,6-Tribromophenol	32123	200	101	50
	32124	200	107	54
	32125	200	110	55
	32126	200	82	41
	32127	200	131	66
	32128	200	128	64
	32129	200	86	43
	Hethod Blank 1	200	141	70
	Method Blank 2	200	114	57
	Method Blank 3	200	117	58

These recoveries are acceptable to E 6 E, Inc. guidelines.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.214

	E 6 E Lab. No. 92-	32157	32158	32159	32160	Detection Limits
Compound	Sample Identity					
3,4-Benzofluoranthene Isomers (1)		ND	ND	ND	ND	<10
1.2-Diphenylhydrazine		ND	ND	ND	ND	<50
N-Nitrosodiphenylamide		ND	ND	ND	ND	***
Methyl Dihydro Indene		ND	ND	ND	ND	***
Hydroxymethyl Pentanone		ND	ND	ND	ND	<10
Methyl Ethyl Phenol		ND	ND	ND	ND	***
Di-Methyl Ethyl Phenol		ND	ND	ND	ND	***
Tetramethyl Butyl Phenol (Octylphenol)		ND	ND	54	*	<10
Tetramethyl Benzene		ND	ND	ND	ND	<10

ND = Not detected

B = Compound also detected in laboratory method blank.

* Compound present below measurable detection limit.

(1) Same as Benzo(b)fluoranthene.

*** Compound searched for, detection limit not determined due to unavailability of standard.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF WATER ANALYSIS FOR TENTATIVELY IDENTIFIED
NAVY SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ug/L)

9200.214

Compound	E & E Lab. No. 92- / Sample Identity	Method Blank	Detection Limits
3,4-Benzofluoranthene Isomers (1)		ND	<10
1,2-Diphenylhydrazine		ND	<50
N-Nitrosodiphcnylaaide		ND	***
Methyl Dihydro Indene		ND	***
Hydroxymethyl Pcntanone		ND	<10
Methyl Ethyl Phenol		ND	***
Di-tlethyl Ethyl Phenol		ND	***
Tetramethyl Butyl Phenol (Octylphenol)		ND	<10
Tetramethyl Benzene		ND	<10

ND = Not detected

B = Coapound also detected in laboratory method blank.

* Compound present belov measurable detection limit.

(1) Same as Benzo(b)fluoranthene.

*** Coapound searched for, detection limit not determined due to unavailability of standard.

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF WATER MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (HSD)
(Sample # 32157)

9200.214

(ug)

Compound	Original Value	Amount Added	Amount Determined MS	Amount Determined MSD	Percent Recovery MS	Percent Recovery MSD	RPD
1,2,4-Trichlorobenzene	ND	100	64	66	64	66	3
Acenaphthene	ND	100	63	65	63	65	3
2,4-Dinitrotoluene	ND	100	86	92	86	92	7
Pyrene	ND	100	90	93	90	93	3
N-Nitroso-di-n-propylamine	ND	100	59	64	59	64	8
1,4-Dichlorobenzene	ND	100	49	51	49	51	4
Pentachlorophenol	ND	200	83	105	42	52	21
Phenol	ND	200	85	82	42	41	2
2-Chlorophenol	ND	200	125	129	62	64	3
4-Chloro-3-methylphenol	ND	200	162	161	81	80	1
4-Nitrophenol	ND	200	90	111	45	56	22

These recoveries and RPDs are within E & E, Inc. limits.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.214

Compound	E L E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
Nitrobenzene-d5	32157	100	66	66
	32158	100	66	66
	32159	100	71	71
	32160	100	78	78
	Method Blank	100	62	62
2-Fluorobiphenyl	32157	100	57	57
	32158	100	55	55
	32159	100	62	62
	32160	100	62	62
	Hcthod Blank	100	55	55
Terphenyl-d14	32157	100	85	85
	32158	100	84	84
	32159	100	85	85
	32160	100	91	91
	Hcthod Blank	100	82	82

These recoveries are acceptable to E & E, Inc. guidelines.

OUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9200.214

Compound	E & E Laboratory No. 92-	Amount Added	Amount Determined	Percent Recovery
		(ng)		
2-Fluorophenol	32157	200	80	40
	32158	200	74	37
	32159	200	67	34
	32160	200	91	46
	Method Blank	200	63	32
Phenol-d5	32157	200	70	35
	32158	200	64	32
	32159	200	56	28
	32160	200	74	37
	Method Blank	200	52	26
2 4 6-Tribromophenol	32157	200	146	73
	32158	200	115	58
	32159	200	122	61
	32160	200	145	72
	Method Blank	200	100	50

These recoveries are acceptable to E & E, Inc. guidelines.

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

QUALITY CONTROL DATA

3200216

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

INORGANICS

CLIENT NAME: ECOLOGY & ENVIRONMENTAL

PROJECT: UH 9000

LAB ID: 92-0790

QC LEVEL: I

LAB ID	CLIENT ID
92-0790-1	P32W068
92-0790-2	P32W069
92-0790-3	P32W065
92-0790-4	P32W066
92-0790-5	P32W067
92-0790-6	P32W062
92-0790-7	P32W063
92-0790-8	P32W064
92-0790-9	P32W0RB02
92-0790-10	P32W0FB01

Notes: PPM = Parts Per Million, mg/l.
BDL = Below Detection Limit.
Control limits are from ATI's internal quality assurance program and the referenced method.
T = TOTAL
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI METHOD DETECTION LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/A = NOT APPLICABLE.
+ = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELDW ATI METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL."
CLY/100 = COLONIES PER 100 mls.

Reference: EPA 600/4-79-020, Revised March 1983.

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA FLORIDA 32514

002

PARAMETER	PREPARATION DATE	ANALYSIS DATE	BATCH #	METHOD	SAMPLE DETECTION LIMIT	BLANK RESULT	SAMPLE RESULT	DUPLIC RESULT	RPD SAMPLE	MAX RPD	MATRIX SPIKE RESULT	TRUE MS RESULT	%REC MS	%REC CONTROL LIMITS
COLIFORM,T	01-30-92	01-31-92	TC-6	909A	1/100	BDL	28	20	33	50	N/A	N/A	N/A	N/A
TURBIDITY	01-31-92	01-31-92	TURB-9	160.1	0.1	BDL	2.8	2.6	7	11	N/A	N/A	N/A	N/A
NO_2	01-31-92	01-31-92	NO_2-13	354.1	0.1	DOL	BDL	DOL	N/C	20	0.2	0.2	100	59-149
NO_2NO_3	02-05-92	02-05-92	NO_2NO_3-9C	353.2	0.1	BDL	0.3	0.3	0+	0.1	1.0	1.0	100	66-126

PARAMETER	SAMPLE DUPLIC	SAMPLE DUP DETECTION LIMIT	SAMPLE SPIKED	SAMPLE SPK DETECTION LIMIT
COLIFORM,T	9238-1	5	9238-1	5
TURBIDITY	0790-1	0.1	0790-1	0.1
NO_2	0790-1	0.1	0790-1	0.1
NO_2NO_3	00778-1	0.1	00778-1	0.1

Analytical Technologies, Inc.
1 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

QUALITY CONTROL DATA

Analytical Technologies, Inc.
11 EAST OLIVE HOAD PHONE (904) 474 1001
PENSACOLA FLORIDA 32514

INORGANICS

3 2002 + 8

CLIENT NAME: ECOLOGY & ENVIRONMENTAL

PROJ BCT: UH 9000

LAB ID: *92-0743*

QC LEVEL: I

LAB ID	CLIENT ID
92-0743-1	P32W001
92-0743-2	P32W008
92-0743-3	P32W008 D
92-0743-4	P32W009
92-0743-5	P32W0010
92-0743-6	B32W0010 D
92-0743-7	P32WORB01

Notes: PPM - Parts Per Million, mg/l.
BDL - Below Detection Limit.
Control limits are from ATI's internal quality assurance prograa and the referenced method.
T - TOTAL
N/C - SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI HETHOD DETECTION LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/A - NOT APPLICABLE.
CLY/100 - COLONIES PER LOO mls.
+ - SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE IS AT OR BELOW AT METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL."

Reference: BPA 600/4-79-020, Revised March 1983.
Standard Hethodr, 16th Editioh, 1985.

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

LAB ID: *92-0743*

PARAMETER	PREPARATION DATE	ANALYSIS DATE	BATCH #	METHOD	SAMPLE DETECTION LIMIT	BLANK RESULT	SAMPLE RESULT	DUPLIC RESULT	RPD SAMPLE	MAX RPD	MATRIX SPIKE RESULT	TRUE MS RESULT	%REC MS	%REC CONTROL LIMITS
COLIFORM,T	01-30-92	01-31-92	TC-6	909A	1/100	BDL	28	20	33	50	N/A	N/A	N/A	N/A
TURBIDITY	01-31-92	01-31-92	TURB-9	180.1	0.1	BDL	2.8	2.6	7	11	N/A	N/A	N/A	N/A
NO_2	01-30-92	01-30-92	NO_2-W-12	354.1	0.1	BDL	BDL	BDL	N/C	20	0.2	0.2	100	59-149
NO_2NO_3	02-05-92	02-05-92	NO_2NO_3-98	353.2	0.1	BDL	0.4	0.4	0+	0.1	1.0	1.0	100	66-126

PARAMETER	SAMPLE DUPLIC	SAMPLE DUP DETECTION LIMIT	SAMPLE SPIKED	SAMPLE SPK DETECTION LIMIT
COLIFORM,T	0743-1	1/100	N/A	N/A
TURBIDITY	0790-1	0.1	0790-1	0.1
NO_2	0743-1	0.1	*0743-1*	0.1
NO_2NO_3	0817-7	0.1	0817-7	0.1

APPENDIX F

DATA VALIDATION SUMMARY

MEMORANDUM

TO: Hike Grecu

FROM: Gary Hahn GHahn

DATE: March 2, 1992

SUBJECT: NASP TWTP GW Sampling Report

RE: 9200.209

CLIENT: 1616

CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty-three samples received at the Analytical Services Center on January 31, 1992. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

Sample management failed to sign the chain of custody on the day of receipt. Computer backup verifies receipt of the samples.

Sample P32W066 was insufficiently preserved for cyanide analysis. The sample was analyzed as received at pH 7.

Selenium and arsenic analyses for sample P32W066 required a ten-fold dilution due to interferences and is reflected in the quantitation limits for this sample.

Mercury quantitation limits for samples P32W069 and P32WRB02 are slightly raised because of interference from evolution of chlorine during analysis.

Volatile analysis for samples P32W008, P32W008/DUP and P32W066 were originally analyzed within hold times. Some compounds flagged 'X' were above the calibration range. Additionally, a number of surrogates were outside control limits in samples P32W008 and P32W008/DUP. The samples (P32W008 and P32W008/DUP) were reanalyzed two days past hold times and sample (P32W066) reanalyzed one day past hold time. Both results are included.

Samples P32W010 and P32W067 vere initially analyzed vithin hold times. Because of suspected contamination from previous samples, they vere reanalyzed tvo days and one day past hold times respectively. The presence of the compounds marked '**' vere not found on the reanalysis, confirming the cross-contamination. All other compounds found in the first vere found in the second analysis. Only the second analysis is presented.

Sample P32W069 vas originally analyzed at a one hundred-fold dilution because of anticipated high levels of volatiles based on the high level of dichlorobenzenes in the semi-volatile analysis. The sample vas reanalyzed one day past hold time at a twenty-five-fold dilution. Both results are presented.

Investigations have shown that random occurrences of carbon disulfide may be found in samples vhich are acid preserved. This accounts for the varying values in the two analyses of sample P32W069. This and other samples where carbon disulfide is evident have the compound flagged vith an 'A'.

The rinsate blank P32WRB01 vas analyzed tvo minutes past midnight and is technically one day past volatile hold time. Validity of results is unaffected.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, vith such charges accruing until destruction of the samples is authorized by the client.

GH/jp
Enclosure

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32113.01	P32W001	WPURG 1	01/29/92		02/12/92
32113.05	P32W001	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32113.07	P32W001	WCL 1	01/29/92		02/04/92
		UF 1	01/29/92		02/05/92
		US04 1	01/29/92		02/18/92
32113.08	P32W001	WCNCMP1	01/29/92		02/10/92
32113.09	P32W001	WAGICP1	01/29/92	02/05/92	02/06/92
		UASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		WCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		WPBFU 1	01/29/92	02/05/92	02/10/92
		WSEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32114.01	P32W008	WPURG 1	01/29/92		02/12/92
32114.05	P32W008	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32114.07	P32W008	WCL 1	01/29/92		02/04/92
		WF 1	01/29/92		02/05/92
		WS04 1	01/29/92		02/18/92
32114.08	P32W008	WCNCMP1	01/29/92		02/10/92
32114.09	P32W008	WAGICP1	01/29/92	02/05/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		UCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		UPBFU 1	01/29/92	02/05/92	02/10/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAHPLE TRACKING REPORT

LAB SAHPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32114.09	P32W008	WSEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32115.01	P32W008/DUP.	WPURG 1	01/29/92		02/12/92
32115.05	P32W008/DUP.	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32115.07	P32W008/DUP.	WCL 1	01/29/92		02/04/92
		WF 1	01/29/92		02/05/92
		WS04 1	01/29/92		02/18/92
32115.08	P32W008/DUP.	WCNCMP1	01/29/92		02/10/92
32115.09	P32W008/DUP.	WAGICP1	01/29/92	02/05/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		VCDICPl	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		WPBFU 1	01/29/92	02/05/92	02/10/92
		WSEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32116.01	P32W009	WPURG 1	01/29/92		02/12/92
32116.05	P32W009	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32116.07	P32W009	WCL 1	01/29/92		02/04/92
		WF 1	01/29/92		02/05/92
		US04 1	01/29/92		02/18/92
32116.08	P32W009	WCNCMP1	01/29/92		02/10/92
32116.09	P32W009	WAGICP1	01/29/92	02/OS/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		WCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32116.09	P32W009	WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		WPBFU 1	01/29/92	02/05/92	02/10/92
		USEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32117.01	P32W010	WPURG 1	01/29/92		02/12/92
32117.05	P32W010	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32117.07	P32W010	WCL 1	01/29/92		02/04/92
		UF 1	01/29/92		02/17/92
		WSO4 1	01/29/92		02/18/92
32117.08	P32W010	WCNCMP1	01/29/92		02/10/92
32117.09	P32W010	WAGICP1	01/29/92	02/05/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		WCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		UHCVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/03/92	02/06/92
		WPBFU 1	01/29/92	02/05/92	02/10/92
		WSEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32118.01	P32W010/DUP.	WPURG 1	01/29/92		02/12/92
32118.05	P32W010/DUP.	WAPBNA1	01/29/92	02/04/92	02/05/92
		WBNBNA1	01/29/92	02/04/92	02/05/92
32118.07	P32W010/DUP.	WCL 1	01/29/92		02/04/92
		WF 1	01/29/92		02/17/92
		WSO4 1	01/29/92		02/18/92
32118.08	P32W010/DUP.	WCNCMP1	01/29/92		02/10/92
32118.09	P32W010/DUP.	WAGICP1	01/29/92	02/05/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		WCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32118.09	P32W010/DUP.	VFEICPl	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		WPBFU 1	01/29/92	02/05/92	02/10/92
		WSEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92
32119.01	P32W062	WPURG 1	01/30/92		02/12/92
32119.05	P32W062	WAPBNA1	01/30/92	02/04/92	02/05/92
		WBNBNA1	01/30/92	02/04/92	02/05/92
32119.07	P32W062	WCL 1	01/30/92		02/04/92
		VF 1	01/30/92		02/17/92
		US04 1	01/30/92		02/18/92
32119.08	P32W062	WCNCMP1	01/30/92		02/12/92
32119.09	P32W062	VAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		USEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32120.01	P32W063	WPURG 1	01/30/92		02/12/92
32120.05	P32W063	VAPBNAl	01/30/92	02/04/92	02/07/92
		WBNBNA1	01/30/92	02/04/92	02/07/92
32120.07	P32W063	WCL 1	01/30/92		02/04/92
		UF 1	01/30/92		02/17/92
		WS04 1	01/30/92		02/18/92
32120.08	P32W063	WCNCMP1	01/30/92		02/12/92
32120.09	P32W063	VAGICP1	01/30/92	02/05/92	02/06/92
		UASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32120.09	P32W063	WCDICP1	01/30/92	02/OS/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32121.01	P32W064	UPURG 1	01/30/92		02/12/92
32121.05	P32W064	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32121.07	P32W064	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WS04 1	01/30/92		02/18/92
32121.08	P32W064	WCNCMP1	01/30/92		02/12/92
32121.09	P32W064	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/85/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		UPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WICP 1	01/30/92	02/05/92	02/07/92
		WZNICPl	01/30/92	02/05/92	02/06/92
32122.01	P32W065	UPURG 1	01/30/92		02/12/92
32122.05	P32W065	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32122.07	P32W065	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WS04 1	01/30/92		02/18/92
32122.08	P32W065	WCNCMP1	01/30/92		02/12/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32122.09	P32W065	WAGICP1	01/30/92	02/05/92	02/06/92
		UASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		UPBFU 1	01/30/92	02/05/92	02/10/92
		USEFU 1	01/30/92	02/05/92	02/06/92
		WICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32123.01	P32W066	UPURG 1	01/30/92		02/13/92
32123.05	P32W066	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32123.07	P32W066	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		US04 1	01/30/92		02/18/92
32123.08	P32W066	WCNCMP1	01/30/92		02/12/92
32123.09	P32W066	WAGICP1	01/30/92	02/05/92	02/06/92
		UASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		UPBFU 1	01/30/92	02/05/92	02/10/92
		USEFU 1	01/30/92	02/05/92	02/06/92
		WICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32124.01	P32W067	UPURG 1	01/30/92		02/14/92
32124.05	P32W067	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32124.07	P32W067	WCL 1	01/30/92		02/04/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32124.07	P32W067	WF 1	01/30/92		02/17/92
		WSO4 1	01/30/92		02/18/92
32124.08	P32W067	WCNCMP1	01/30/92		02/12/92
32124.09	P32W067	WAGICP1	01/30/92	02/05/92	02/06/92
		UASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32125.01	P32W068	WPURG 1	01/30/92		02/13/92
32125.05	P32W068	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32125.07	P32W068	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WSO4 1	01/30/92		02/18/92
32125.08	P32W068	WCNCMP1	01/30/92		02/12/92
32125.09	P32W068	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICPl	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		UCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		UPBFU 1	01/30/92	02/05/92	02/10/92
		USEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32126.01	P32W069	WPURG 1	01/30/92		02/13/92
32126.05	P32W069	WAPBNA1	01/30/92	02/05/92	02/07/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32126.05	P32W069	WBNBNA1	01/30/92	02/05/92	02/07/92
32126.07	P32W069	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WSO4 1	01/30/92		02/18/92
32126.08	P32W069	WCNCMP1	01/30/92		02/12/92
32126.09	P32W069	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32127.01	P32WRB01	VPURG 1	01/29/92		02/12/92
32127.05	P32WRB01	WAPBNA1	01/29/92	02/05/92	02/06/92
		WBNBNA1	01/29/92	02/05/92	02/06/92
32127.07	P32WRB01	WCL 1	01/29/92		02/01/92
		WF 1	01/29/92		02/17/92
		WSO4 1	01/29/92		02/18/92
32127.08	P32WRB01	WCNCMP1	01/29/92		02/10/92
32127.09	P32WRB01	WAGICP1	01/29/92	02/05/92	02/06/92
		WASFU 1	01/29/92	02/05/92	02/10/92
		WBAICP1	01/29/92	02/05/92	02/06/92
		WCDICP1	01/29/92	02/05/92	02/06/92
		WCRICP1	01/29/92	02/05/92	02/06/92
		WCUICP1	01/29/92	02/05/92	02/06/92
		WFEICP1	01/29/92	02/05/92	02/06/92
		WHGVAP1	01/29/92		02/04/92
		WMNICP1	01/29/92	02/05/92	02/06/92
		WNAICP1	01/29/92	02/05/92	02/06/92
		WNIICP1	01/29/92	02/05/92	02/06/92
		UPBFU 1	01/29/92	02/05/92	02/10/92
		USEFU 1	01/29/92	02/05/92	02/06/92
		WVICP 1	01/29/92	02/05/92	02/07/92
		WZNICP1	01/29/92	02/05/92	02/06/92

3200225

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32128.01	P32WRB02	WPURG 1	01/30/92		02/13/92
32128.05	P32WRB02	WAPBNA1	01/30/92	02/05/92	02/06/92
		UBNBNAl	01/30/92	02/05/92	02/06/92
32128.07	P32WRB02	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WS04 1	01/30/92		02/18/92
32128.08	P32WRB02	WCNCMP1	01/30/92		02/12/92
32128.09	P32WRB02	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32129.01	P32WFB01	WPURG 1	01/30/92		02/13/92
32129.05	P32WFB01	WAPBNA1	01/30/92	02/05/92	02/06/92
		WBNBNA1	01/30/92	02/05/92	02/06/92
32129.07	P32WFB01	WCL 1	01/30/92		02/04/92
		WF 1	01/30/92		02/17/92
		WS04 1	01/30/92		02/18/92
32129.08	P32WFB01	WCNCMP1	01/30/92		02/13/92
32129.09	P32WFB01	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92

JOB NUMBER : 9200.209

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SMPLE ID	CLIENT SMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32129.09	P32WFB01	WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32130.01	P32WPB01	WPURG 1	01/30/92		02/13/92
32130.03	P32WPB01	WCNCMP1	01/30/92		02/13/92
32130.04	P32WPB01	WAGICP1	01/30/92	02/05/92	02/06/92
		WASFU 1	01/30/92	02/05/92	02/10/92
		WBAICP1	01/30/92	02/05/92	02/06/92
		WCDICP1	01/30/92	02/05/92	02/06/92
		WCRICP1	01/30/92	02/05/92	02/06/92
		WCUICP1	01/30/92	02/05/92	02/06/92
		WFEICP1	01/30/92	02/05/92	02/06/92
		WHGVAP1	01/30/92		02/04/92
		WMNICP1	01/30/92	02/05/92	02/06/92
		WNAICP1	01/30/92	02/05/92	02/06/92
		WNIICP1	01/30/92	02/05/92	02/06/92
		WPBFU 1	01/30/92	02/05/92	02/10/92
		WSEFU 1	01/30/92	02/05/92	02/06/92
		WVICP 1	01/30/92	02/05/92	02/07/92
		WZNICP1	01/30/92	02/05/92	02/06/92
32131.01	P32WTB01	WPURG 1	01/30/92		02/13/92
32132.01	P32W011	WCNCMP1	01/29/92		02/10/92
32133.01	P32W012R	WCNCMP1	01/29/92		02/10/92
32134.01	P32W013	WCNCMP1	01/29/92		02/10/92
32135.01	P32W014	WCNCMP1	01/29/92		02/12/92

ANALYZE ACCORDING TO
SITE SPECIFIC QAPP
SEE JACK MILLER

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086. TEL 716 684 8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: UH9000
Project Name: TWTP GW SAMPLING NASP
Project Manager: MIKE GRECH
Samplers: (Signatures) D. Mike Kern / Mike Hennid
Field Team Leader: MIKE GRECH

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFATE CHLORIDE FLUORIDE	SODIUM & METALS	EPA8240	EPA8270	EPA8270 TK'S	EPA8270 TK'S	CYANIDE	REMARKS
32W0RB01	1/30	800		X		low level	P32W0RB01	9	X	X	X	X	X	X	X	SULFATE, CHLORIDE, FLUORIDE - cooled 4°C
32W064	"					" "	P32W064	9	X	X	X	X	X	X	X	SODIUM METALS - PRESERVED cooled 4°C
32W065	"	1100		X		" "	P32W065	9	X	X	X	X	X	X	X	8240 + 8240 + TKS PRESERVED cooled 4°C
32W0P801	"	915		X		" "	P32W0P801	2			X					EPA8270 + 8270 + TKS Boiled to 4°C
32W0T801	"	900		X		" "	P32W0T801	2			X					CYANIDE to pH cooled to 4°C
32W0F801	"	830		X		" "	P32W0F801	4			X	X				
32W068	"	1000		X		" "	P32W068	4			X	X				VOA LOT # 1232013
32W069	"	1030		X		" "	P32W069	4			X	X				QC # 10510C
32W065	"	1100		X		" "	P32W065	4			X	X				LL RY LOT # 1177011
32W066	"	1130		X		" "	P32W066	4			X	X				QC # 10418C
32W067	"	1200		X		" "	P32W067	4			X	X				HCA/RCRA LOT # 1169012
32W062	"	1400		X		" "	P32W062	4			X	X				QC # 10437C
32W063	"	1430		X		" "	P32W063	4			X	X				
32W064	"	1500		X		" "	P32W064	4			X	X				

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
D. Mike Kern	1/30/92 1700	Fed Ex			
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)
Fed Ex	1/31/92	[illegible]			

Ship Via: Fed EX
BL/Airbill Number: 1106442805
Date: 1/30/92

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files 2/25/92 AB
*See CONCENTRATION RANGE on back of form.

2 055

ANALYZE ACCORDING TO
SITE SPECIFIC QAPP
see JACK MILLER

ecology and environment, inc.

388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684 8060
International Specialists in the Environment

32000227

CHAIN OF CUSTODY RECORD

Project No.: 1149000
Project Name: FWTP GW SAMPLING NASP
Project Manager: MIKE GRECU
Samplers: (Signatures) D. Mike Kreuz / Mike Kennick
Field Team Leader: MIKE GRECU

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFIDE, CHLORIDE, FLUORIDE	SODIUM & METALS	EPA 8270	EPA 8270 + TIC'S	CYANIDE	REMARKS
P32W011	1/29	1100		X		low level	P32W011	1	~~X~~				X	SULFATE, CHLORIDE, FLUORIDE-cooled to 4°C
P32W012R	"	1130		X		" "	P32W012R	1	~~X~~				X	Sodium + METALS-PRES HNO3 cooled to 4°C
P32W013	"	1200		X		" "	P32W013	1	~~X~~				X	EPA 8270 + 8270 TIC'S-cooled to 4°C
P32W014	"	1230		X		" "	P32W014	1					X	Cyanide-PRES NaOH cooled to 4°C
P32W009	"	1430		X		" "	P32W009	5	X	X	X	X	X	
P32W010	"	1500		X		" "	P32W010	5	X	X	X	X	X	1L Poly LOT# 177011
P32W010D	"	1510		X		" "	P32W010 DUP	5	X	X	X	X	X	QC# 1041PC
														1/2 Gal Amber LOT# 169012
														QC# 1043IC

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
D. Mike Kreuz	1/29/92 1700	Fed Ex				Fed EX
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Bill/Airbill Number: 1106442820 — Date: 1/29/92
Relinquished By (Signature): Fed Ex	Date/Time: 1/31/92	Received For Laboratory By (Signature): Gary A Benson 2/25/92	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	

Distribution: Original Accompanies Shipment. Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

2340

ANALYZE ACCORDING TO SITE SPECIFIC QAPP

See JACK Miller

ecology and environment, inc.
388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684 8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Project No.: UH9000
Project Name: IWTP GW SAMPLING NASP
Project Manager: MIKE GRECH
Samplers: (Signatures) G. Mike Kern / Mike Hanrick
Field Team Leader: MIKE GRECH

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFATE, CHLORIDE, FLUORIDE	SODIUM METALS	EPA8270	EPA8270 TIC'S	CYANIDE	REMARKS
324W066	1/30	1130		X		low level	P32W066	5	X	X	X	X	X	SULFATE, CHLORIDE, FLUORIDE - cooled 4°C
324W067	1/30	1200		X		" "	P32W067	5	X	X	X	X	X	Sodium METALS - PRES HNO3 - cooled 4°C
324W068	1/30	1000		X		" "	P32W068	5	X	X	X	X	X	EPA8270, EPA8270 TIC'S - cooled TO 4°C
														CYANIDE - NaOH cooled TO 4°C
														12 PAK LOT # 1260061
														QC # 10549C
														REGAL AMBER LOT # 1169012
														QC # 10937C

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Ship Via
G. Mike Kern	1/30/92 1200	Fed Ex				Fed EX
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	BL/Airbill Number: 3509364180 — Date: 1/30/92
Relinquished By: (Signature) Fed Ex	Date/Time: 1/31/92	Received For Laboratory By: (Signature) Mary A Benson	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	

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2/25/92 AB

*See CONCENTRATION RANGE on back of form.

234055

ANALYZE ACCORDING TO SITE SPECIFIC QAPP

See JACK Miller

ecology and environment, inc.

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086 TEL 716/684 8060
International Specialists in the Environment

3200228

CHAIN OF CUSTODY RECORD

Project No.: KH9000

Project Name: IWTP GW SAMPLING NASP

Project Manager: MIKE GRECU

Samplers: (Signature) Mike Kean / Mike Kennedy

Field Team Leader: MIKE GRECU

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Cyanide	Sodium & METALS	CHLORIDE SULFATE, FLUORIDE	EPA 8270	EPA 8270 TICS	REMARKS
P32W0PB01	1/30	920		X		low level	P32W0PB01	2	X	X				Cyanide - PRES NaOH cooled 4°C
P32W0FB01	"	830		X		" "	P32W0FB01	5	X	X	X	X	X	Sodium & METALS - PRES HNO3 cooled 4°C
P32W069	"	1030		X		" "	P32W069	5	X	X	X	X	X	Chloride, Sulfate, Fluoride - cooled to 4°C
														EPA 8270 & 8270 TICS cooled 4°C
														LL Poly LOT # 1177011
														QC # 10418C
														Regal Beaker LOT 2169012
														QC # 10437C

Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
Mike Kean	1/30/92 1700	Fed Ex				Fed EX
Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: 0776547494 — Date: 1/31/92
Fed Ex	1/31/92	[illegible]				

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

2/25/92 AB

234056

ANALYZE ALL SAMPLES ACCORDING TO SITE SPECIFIC QAPP
SEE JACK MILLER

ecology and environment, inc.
388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL 716/684 8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Project No.: UH9000
Project Name: IWTP GW SAMPLING NASP
Project Manager: MIKE GRECU
Samplers: (Signatures) G. Mike Grecu / Mike Hennell
Field Team Leader: MIKE GRECU

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFATE CHLORIDE FLUORIDE	Sodium + METALS	EPA8240	EPA8270	EPA8240 + TICS	EPA8270 + TICS	CYANIDE	REMARKS
P32W0RB01	1/29	1000		X		low level	P32W0RB01									SULFATE, CHLORIDE, FLUORIDE - cooled to 4°C
P32W001	"	1030		X		" "	P32W001 (MW-1)									Sodium + METALS - PRES HNO3 cooled to 4°C
P32W008D	"	1345		X		" "	P32W008 DuP									EPA8240 + EPA8240 + TICS - PRES HCl cooled to 4°C
																EPA8270 + 8270 + TICS - Cooled to 4°C
																CYANIDE - PRES NaOH cooled to 4°C
																VOA LOT # 1232013
																QC # 10510C
																1L Poly LOT # 1177011
																QC # 104BC
																½ GAL AMBER LOT # 1169012
																QC # 10437C

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
G. Mike Grecu	1/29/92 1700	Fed Ex				Fed Ex
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Airbill Number: 106442831
Fed Ex	1/31/92	Received For Laboratory By (Signature) Kathy A Benson	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Date: 1/29/92

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2/25/92 90

234055

ANALYZE ACCORDING TO
SITE SPECIFIC QAPP
See JACK Miller

ecology and environment, inc.

300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL 716 684 8060
International Specialists in the Environment

32200229

CHAIN OF CUSTODY RECORD

Project No.: 4H9000
Project Name: FWTP GW SAMPLING NASP
Project Manager: MIKE GRECH
Field Team Leader: MIKE GRECH
Samplers: (Signatures) D. Mike Green / Mike Kovacik

STATION NUMBER	DATE 92	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFATE, CHLORIDE, FLUORIDE	Sodium, METALS	EPA 8270	EPA 8270 TICS	CYANIDE	REMARKS
P32W008	1/29	1345		X		low level	P32W008	5	X	X	X	X	X	SULFATE, CHLORIDE, FLUORIDE - cooled TO 4°C
P32W062	1/30/92	1400		X		" "	P32W062	5	X	X	X	X	X	Sodium METALS - PRES HNO3 cooled TO 4°C
P32W063	1/30	1430		X		" "	P32W063	5	X	X	X	X	X	EPA 8270 + 8270 + TICS - cooled TO 4°C
														CYANIDE - PRES NaOH cooled TO 4°C
														1 LRBLY LOT# 117011
														QC# 104180
														HCGL Amber LOT# 116901 2
														QC# 104370

Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
D. Mike Green	1/29/92 1200	Fed Ex				Fed Ex
Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Fed Ex	1/31/92	Received For Laboratory By (Signature) Stacy Russo 2/25/92 AB	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: 6776547483 — Date: 1/29/92

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

234055

MEMORANDUM

TO: Mike Grecu

FROM: Gary Hahn GHaLa/GK

DATE: March 2, 1992

SUBJECT: NASP TWTP GU Sampling Report

RE: 9200.214

CLIENT: 1616

CC: Lab File

Attached is the revised laboratory report of the analysis conducted on five samples received at the Analytical Services Center on February 1, 1992. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", EPA-60014-79-020, March 1983 and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.

A sample was listed on the chain of custody as both P32WOTBO2 and P32WOTBO1. Sample identification given on the container, P32WOTBO2, was used.

Investigations into the occurrences of carbon disulfide has shown it to be a phenomenon of the methodology when samples are acid preserved. Samples where carbon disulfide was determined are flagged with an 'A'.

The common laboratory solvents methylene chloride and acetone were present in the method blank and in samples where flagged with a 'B'.

Bis(2-ethylhexyl)phthalate is a laboratory contaminant and was found in the method blank and samples.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

ANALYZE ACCORDING TO
SITE SPECIFIC QAPP
See JACK Miller

ecology and environment, inc.

320 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086 TEL 716 684 8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Page 1

Project No: UH7000
Project Name: IWTP GW SAMPLING NASP
Project Manager: MIKE GRECU
Samplers (Signatures): D. Mike Hess / Mike Hess
Field Team Leader: MIKE GRECU

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SULFATE, CHLORIDE, FLUORIDE	Sulfide, Cyanide, Flashpoint & METALS	EPA 8240	EPA 8270 PESTICIDES	EPA 8270	EPA 8270 CYANIDE	REMARKS
P32W0RB03	1/31	700		X		low level	P32W0RB03	9	X	X	X	X	X	X	SULFATE, CHLORIDE, FLUORIDE - cooled to 4°C
P32W0TB01	1/31	945		X		" "	P32W0TB01	2			X				Sulfide, METALS - pH<2, cooled to 4°C
P32WPCD-1	1/31	1030		X		" "	P32WPCD-1	9	X	X	X	X	X	X	X	CYANIDE, EPA 8240, EPA 8270 - pH<2, cooled to 4°C
P32WPCI-1	1/31	1145		X		" "	P32WPCI-1	9	X	X	X	X	X	X	X	EPA 8240, EPA 8270, PESTICIDES - cooled to 4°C
P32WPCS-1	1/31	1230		X		" "	P32WPCS-1	4			X	X				CYANIDE, EPA 8240 - cooled to 4°C

VOA LOT # 1232013
QC # 10510C
1,1 Poly LOT # 1172011
QC # 10418C
Acid Preserve LOT # 1165012
QC # 10437C

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
D. Mike Hess	1/31/92 1700				
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)
Fed. Express	2-1-92/0850	Nath. N. Hernandez			

Ship Via: Fed Ex
Bill/Airbill Number: 0776547310
Date: 1/31/92

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234059

3200230

Analyze according to site specific QAPP

See Jack Miller

ecology and environment, inc.

300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086 TEL 716/684 8060
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Page 1

Project No: UH9000
Project Name: IWTP GW SAMPLING NASP
Project Manager: Mike Green
Samplers (Signature): Mike Green / Mike Hennel
Field Team Leader: Mike Green

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Sulfate, Chloride, Fluoride	Sodium + Metals	EPA 8270	EPA 8270 + TICs	Cyanide	REMARKS
P324PCS-1	1/31	1230		X		low level	P324PCS-1	5	X	X	X	X	X	Sulfate, chloride, fluoride - cooled to 4°
														Sodium + metals - PCS HNO3 cooled to 4°
														EPA 8270 + 8270 + TICS - cooled to 4°
														Cyanide PCS NaOH cooled to 4°
														1L Poly lot # 1172011
														PC # 10418C
														1/2 gal amber lot # 1169012
														PC # 10437C

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
Mike Green	1/31/92 1100				
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)
Fed. Express	2-1-92 1030	Kathy V. Howard			

Ship Via: Fed EX
BL/Airbill Number: 0776547321
Date: 1/31/9

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form

JOB NUMBER : 9200.214

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32157.01	P32WD01PCD1	VPURG 1	01/31/92		02/14/92
32157.05	P32WD01PCD1	WAPBNA1	01/31/92	02/03/92	02/05/92
		WBNBNA1	01/31/92	02/03/92	02/05/92
32157.07	P32WD01PCD1	WCL 1	01/31/92		02/04/92
		WF 1	01/31/92		02/17/92
		WSO4 1	01/31/92		02/18/92
32157.08	P32WD01PCD1	WCNCMP1	01/31/92		02/13/92
32157.09	P32WD01PCD1	WAGICP1	01/31/92	02/05/92	02/07/92
		WASFU 1	01/31/92	02/05/92	02/10/92
		WBAICP1	01/31/92	02/05/92	02/07/92
		WCDICP1	01/31/92	02/05/92	02/07/92
		WCRICP1	01/31/92	02/05/92	02/07/92
		WCUICP1	01/31/92	02/05/92	02/07/92
		WFEICP1	01/31/92	02/05/92	02/07/92
		WHGVAP1	01/31/92		02/04/92
		WMNICP1	01/31/92	02/05/92	02/07/92
		WNAICP1	01/31/92	02/05/92	02/07/92
		WNIICP1	01/31/92	02/05/92	02/07/92
		WPBFU 1	01/31/92	02/05/92	02/10/92
		WSEFU 1	01/31/92	02/05/92	02/06/92
		WVICP 1	01/31/92	02/05/92	02/07/92
		WZNICP1	01/31/92	02/05/92	02/07/92
32158.01	P32WRB03	WPURG 1	01/31/92		02/14/92
32158.05	P32WRB03	WAPBNA1	01/31/92	02/03/92	02/05/92
		WBNBNA1	01/31/92	02/03/92	02/05/92
32158.07	P32WRB03	WCL 1	01/31/92		02/04/92
		VF 1	01/31/92		02/17/92
		WSO4 1	01/31/92		02/18/92
32158.08	P32WRB03	WCNCMP1	01/31/92		02/13/92
32158.09	P32WRB03	WAGICP1	01/31/92	02/05/92	02/07/92
		VASFU 1	01/31/92	02/05/92	02/10/92
		WBAICP1	01/31/92	02/05/92	02/07/92
		WCDICP1	01/31/92	02/05/92	02/07/92
		WCRICP1	01/31/92	02/05/92	02/07/92
		WCUICP1	01/31/92	02/05/92	02/07/92
		WFEICP1	01/31/92	02/05/92	02/07/92
		WHGVAP1	01/31/92		02/04/92
		WMNICP1	01/31/92	02/05/92	02/07/92
		WNAICP1	01/31/92	02/05/92	02/07/92
		WNIICP1	01/31/92	02/05/92	02/07/92
		WPBFU 1	01/31/92	02/05/92	02/10/92

JOB NUMBER : 9200.214

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32158.09	P32WRB03	WSEFU 1	01/31/92	02/05/92	02/06/92
		WICP 1	01/31/92	02/05/92	02/07/92
		WZNICP1	01/31/92	02/05/92	02/07/92
32159.01	P32WS01PCS1	WPURG 1	01/31/92		02/14/92
32159.0S	P32WS01PCS1	WAPBNA1	01/31/92	02/03/92	02/05/92
		WBNBNA1	01/31/92	02/03/92	02/05/92
32159.07	P32WS01PCS1	WCL 1	01/31/92		02/04/92
		WF 1	01/31/92		02/17/92
		WSO4 1	01/31/92		02/18/92
32159.08	P32WS01PCS1	WCNCMP1	01/31/92		02/13/92
32159.09	P32WS01PCS1	WAGICP1	01/31/92	02/05/92	02/07/92
		WASFU 1	01/31/92	02/05/92	02/10/92
		WBAICP1	01/31/92	02/05/92	02/07/92
		WCDICP1	01/31/92	02/05/92	02/07/92
		WCRICP1	01/31/92	02/05/92	02/07/92
		WCUICP1	01/31/92	02/05/92	02/07/92
		WFEICP1	01/31/92	02/05/92	02/07/92
		WHGVAP1	01/31/92		02/04/92
		WMNICP1	01/31/92	02/05/92	02/07/92
		WNAICP1	01/31/92	02/05/92	02/07/92
		WNIICP1	01/31/92	02/05/92	02/07/92
		WPBFU 1	01/31/92	02/05/92	02/10/92
		WSEFU 1	01/31/92	02/05/92	02/06/92
		WICP 1	01/31/92	02/05/92	02/07/92
		WZNICP1	01/31/92	02/05/92	02/07/92
32160.01	P32WI01PCI1	WPURG 1	01/31/92		02/14/92
32160.05	P32WI01PCI1	WAPBNA1	01/31/92	02/03/92	02/05/92
		WBNBNA1	01/31/92	02/03/92	02/05/92
32160.07	P32WI01PCI1	WCL 1	01/31/92		02/04/92
		WF 1	01/31/92		02/17/92
		WSO4 1	01/31/92		02/18/92
32160.08	P32WI01PCI1	WCNCMP1	01/31/92		02/13/92
32160.09	P32WI01PCI1	WAGICP1	01/31/92	02/05/92	02/07/92
		WASFU 1	01/31/92	02/05/92	02/10/92
		WBAICP1	01/31/92	02/05/92	02/07/92
		WCDICP1	01/31/92	02/05/92	02/07/92
		WCRICP1	01/31/92	02/05/92	02/07/92
		WCUICP1	01/31/92	02/05/92	02/07/92
		WFEICP1	01/31/92	02/05/92	02/07/92
		WHGVAP1	01/31/92		02/04/92
		WMNICP1	01/31/92	02/05/92	02/07/92

JOB NUMBER : 9200.214

Ecology and Environment, Inc.
WPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
32160.09	P32WI01PCI1	WNAICP1	01/31/92	02/05/92	02/07/92
		WNIICP1	01/31/92	02/05/92	02/07/92
		WPBFU 1	01/31/92	02/05/92	02/10/92
		WSEFU 1	01/31/92	02/05/92	02/06/92
		WVICP 1	01/31/92	02/05/92	02/07/92
		WZNICP1	01/31/92	02/05/92	02/07/92
32161.01	P32WTB02	WPURG 1	01/31/92		02/14/92

Environmental
Science &
Engineering, Inc.

March 5, 1992
ESE No.: 3924020 0201

Ecology & Environmental, Inc.
Amy Twiny, Project Manager
316 S. Bayien Street
Suite 670
Pensacola, FL 32501

Dear Ms. Twitty:

Enclosed are the final results of analysis of twenty one water samples received from Ecology & Environment by ESE on February 2. 1992.

The samples were analyzed for Gross Alpha. Gross Beta. Radium 226 and Radium 228, as requested.

Our laboratory is certified hy the Florida Department of Health and Rehabilitative Services to perform environmental and drinking water analyses (certification numbers E82067 and 82138).

Your cost for this service is $4.975.00. An invoice in this amount will follow shortly. Payment is required within 30 days of the invoice date to avoid 18% APR carrying charges.

Thank you for giving ESE the opportunity to he of service. Please call me if you have any questions or to confirm the July 1992 sampling effort.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING. INC.

Suzanne P. Woodward
Project Manager

SPW/ka

Enclosure

P.O. Box 1703 Gainesville, FL 32602-1703 Phone (904) 332-3318 (800) 874-7872 Fax (904) 332-0507

Analytical Technologies, Inc.

February 17, 1992

Ecology and Environmental
316 S. Baylen Street
Suite 670
Gulf Breeze, FL 32501-0000

ATTN: Amy Witty

Dear Ms. Witty;

Enclosed please find the report containing the results for your Project Number UH9000 (ATI Lab ID 92-0828A).

Due to an insufficient amount of sample we were unable to run NO3/N. In order to get a result for NO3/N, you would need to analyze for NO2/NO3 and NO2/N and subtract the NO2/N from the NO2/NO3 to get a NO3/N result. Since ATI was supplied with only one preserved sample for P32WORB03 we were only able to analyze for the combination NO2/NO3-N.

If you have any questions regarding this matter, please do not hesitate to call.

Sincerely,

Linda Perzan

Linda Perzan'
Client Services Representative

LP/tds

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

3200233

SAMPLE INSPECTION AND IDENTIFICATION SHEET/OUT OF CONTROL EVENTS

Client: ECOLOGY & ENVIRONMENT, INC. ATI Lab ID # 92- 0828

PROJ NUMBER: UH 9000

PROJ NAME: IWTP GW SAMPLING NASP

SAMPLED BY: G. G. / M. H.

SAMPLE SITE: N/S

SAMPLE DATE: 01/31/92

SAMPLE TIME: AM & PM

SAMPLE TYPE: GROUNDWATER

RUSH: Y (N) QC: (N) 0 1 2 3 4

Date Received: 01/31/92

Is there a chain of custody? (Y) N

Was chain of custody signed? (Y) N

'ere samples received cold? (Y) N

ere samples received in proper containers? (Y) N

Were samples preserved correctly? (Y) (N) 01/31/92

Were air bubbles present in volatile bottles? N/A Y

Were samples within holding time? (Y) N

SHIPPED BY: DROP OFF

	SAMPLE	DATE
1	P32WOPCD-1	01/31/92
2	P32WOPCJ-1	
3	P32WOPCS-1	01/31/92
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

OUT OF CONTROL EVENTS: SAMPLE P32WORB03 NEEDS UNPRESERVED BOTTLE FOR ANALYSIS.

ATI WILL PERFORM THE SERVICES IN ACCORDANCE WITH NORMAL PROFESSIONAL STANDARDS FOR THE INDUSTRY. THE TOTAL LIABILITY OF ATI, ANY AND ALL OFFICERS AND EMPLOYEES OR SUCCESSORS, TO CLIENTS FOR SERVICES PROVIDED, WILL NOT EXCEED THE INVOICE AMOUNT FOR SAID SERVICE. CLIENT ACCEPTANCE OF A PROPOSAL RELEASES ATI FROM ANY LIABILITY IN EXCESS THEREOF.

PM APPROVAL _____ INSPECTED BY PEE DATE INSPECTED 01/31/92

COPIES OF REPORT 1

Ecology and Environment
339 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD 92-0828

32002234

Project No.: 4H9000
Project Name: TUTP GW SAMPLING NASP
Project Manager: MIKE GRECU
Samplers: (Signature) G. Mike Greco / Mike Hand
Field Team Leader: MIKE GRECU

STATION NUMBER	DATE	TIME	SAMPLE TYPE: COMP	SAMPLE TYPE: GRAB	SAMPLE TYPE: AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TURBIDITY	TOTAL COLIFORM	NITRATE				REMARKS
DRB03	1/31	930		X		DW level	P32WORB03	1			X				TURBIDITY & T. COLIFORM chilled 4°C
WPCD	"	1030		X		" " 1	P32WOPCD-1	3	X	X	X				NITRATE SPES HNO4 cooled to 4°C
WPCI-1	"	1145		X		" " 2	P32WOPCI-1	3	X	X	X				
WPCS-1	"	1230		X		" " 3	P32WOPCS-1	3	X	X	X				

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Mike Greco	1/31/92 1700	1/31/92 1700				
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 1/31/92

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234055

Analytical Technologies, Inc.

February 17, 1992

Ecology and Environmental
316 S. Baylen Street
Suite 670
Gulf Breeze, FL 32501-0000

ATTN: Amy Twitty

Dear Ms. Twitty;

Enclosed please find the report containing the results for your Project Number UH9000 (ATI Lab ID 92-0743).

Due to an insufficient amount of sample we were unable to run NO3/N. In order to get a result for NO3/N, you would need to analyze for NO2/NO3 and NO2/N and subtract the NO2/N from the NO2/NO3 to get a NO3/N result. Since ATI was supplied with only one preserved sample for P32WORB01 we were only able to analyze for the combination NO2/NO3-N.

If you have any questions regarding this matter, please do not hesitate to call.

Sincerely,

Linda Perzan

Linda Perzan
Client Services Representative

LP/tds

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

SAMPLE INSPECTION AND IDENTIFICATION SHEET/OUT OF CONTROL EVENTS

Client: ECOLOGY + ENVIRONMENT ATI Lab ID # 92- 0743

PROJ NUMBER: UH 9000

PROJ NAME: IWTP GW SAMPLING NASP

SAMPLED BY: M.G./M.H.

SAMPLE SITE: N/S

SAMPLE DATE: 1-29-92

SAMPLE TIME:

SAMPLE TYPE:

RUSH: Y (N) QC: N 0 (1) 2 3 4

Date Received: 1-29-92

Is there a chain of custody? (Y) N

Was chain of custody signed? (Y) N

Were samples received cold? (Y) N

Were samples received in proper containers? (Y) N

Were samples preserved correctly? (Y) N

Were air bubbles present in volatile bottles? N/A Y N

Were samples within holding time? (Y) N

SHIPPED BY: DROP OFF

	SAMPLE	DATE
1	P32W001	1-29-92
2	P32W008	
3	P32W008 Dup	
4	P32W009	
5	P32W010	
6	P32W010 Dup	
7	~~P32WRB01~~	CDT 1/29/92
8	P32WORB01	
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

OUT OF CONTROL EVENTS: QC Not stated, Used QC=1. CDT 1/29/92

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PM APPROVAL _____ INSPECTED BY CDT DATE INSPECTED/ 1/29/92

COPIES OF REPORT _____

3200235

To: ANALYTICAL TECHNOLOGIES INC
Sec LINDA PERZAN

92-0743

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: KH9060
Project Name: IWTP GW SAMPLING NASP
Project Manager: JOAN BARKSDALE
Samplers: (Signatures) D. Mike Heam
Field Team Leader: MIKE GREEN

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TURBIDITY	TOTAL COLIFORM	NITRATE				REMARKS
P324W001	2/4/92	1430		X		low level	P324W001 (MG-1)	3	X	X	X			1	TURBIDITY + COLIFORM cooled 4°C
P324W008	"	1345		X		"	P324W008	3	X	X	X			2	NITRATE PRES WITH H_2SO_4
P324W008D	"	1355		X		"	P324W008 DUP	3	X	X	X			3	
P324W009	"	1430		X		"	P324W009	3	X	X	X			4	
P324W010	"	1500		X		"	P324W010	3	X	X	X			5	
P324W010D	"	1510		X		"	P324W010 DUP	3	X	X	X			6	
P324WRB01	"	1600		X		"	P324WRB01	1			X			7	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
D. Mike Heam	2/5/92 1600	Cynthia D. Duke				air
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: N/A
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 1/29/92

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234055

Analytical Technologies, Inc.

February 17, 1992

Ecology and Environmental
316 S. Baylen Street
Suite 670
Gulf Breeze, FL 32501-0000

ATTN: Amy "witty

Dear Ms. "witty;

Enclosed please find the report containing the results for your Project Number UH9000 (ATI Lab ID 92-0790).

Due to an insufficient amount of sample we were unable to run NO3/N. In order to get a result for NO3/N, you would need to analyze for NO2/NO3 and NO2/N and subtract the NO2/N from the NO2/NO3 to get a NO3/N result. Since ATI was supplied with only one preserved sample for P32WORB01 and P32WOFB02 we were only able to analyze for the combination NO2/NO3-N.

If you have any questions regarding this matter, please do not hesitate to call.

Sincerely,

Linda Perzan

Linda Perzan
Client Services Representative

LP/tds

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

3200236

SAMPLE INSPECTION AND IDENTIFICATION SHEET/OUT OF CONTROL EVENTS

client: Eco + Env.

ATI Lab ID # 92-0790

PROJ NUMBER: UH 9000

PROJ NAME: IWTP GW Sampling NASP

SAMPLED BY: G.D. 01/30/92 G.M.G. / M.H.

SAMPLE SITE: i/s

SAMPLE DATE: 01/30/92

SAMPLE TIME: AM + PM

SAMPLE TYPE: GW

RUSH: Y (N) QC: N 0 1 2 3 4

Date Received: 01/30/92

Is there a chain of custody? (Y) N

Was chain of custody signed? (Y) N

Were samples received cold? (Y) N

Were samples received in proper containers? (Y) N

Were samples preserved correctly? (Y) N

Were air bubbles present in volatile bottles? Y N n/a

Were samples within holding time? (Y) N

SHIPPED BY: [illegible]

	SAMPLE	DATE
1	P32W068	1/30/92
2	P32W069	
3	P32W065	
4	P32W066	
5	P32W067	
6	P32W062	
7	P32W063	
8	P32W064	
9	~~B~~ P32WQB02 (QC)	
10	P32WOFB01	
11		
12		
13		
14		
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OUT OF CONTROL EVENTS:

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PM APPROVAL _____ INSPECTED BY AP DATE INSPECTED/ 01/30/92

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ADVANTKAI Technologies
see Linda Perzan

92-0790

ecology and environment, inc.
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: 4H9006
Project Name: TWTP GW SAMPLING NASP
Project Manager: MIKE GRECU
Field Team Leader: MIKE GRECU.
Samplers: (Signatures) D. Mike Hennel / Mike Hennel

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	NITRATE	TURBIDITY	TOTAL COLIFORM			REMARKS
P32W0RB02	1/30	800		X		low level	P32W0RB02	1	X			G		NITRATE - PRES H_2SO_4 - cool to 4°C
P32W0FB01	"	830		X		" "	P32W0FB01	1	X			10		Turbidity - cooled to to 4°
P32W068	"	1000		X		" "	P32W068	3	X	X	X	1		Total Coliform - cooled to 4°
P32W069	"	1030		X		" "	P32W069	3	X	X	X	1		
P32W065	"	1100		X		" "	P32W065	3	X	X	X	1		
P32W066	"	1130		X		" "	P32W066	3	X	X	X	1		
P32W067	"	1200		X		" "	P32W067	3	X	X	X	1		
P32W062	"	1400		X		" "	P32W062	3	X	X	X	1		
P32W063	"	1430		X		" "	P32W063	3	X	X	X	1		
P32W064	"	1500		X		" "	P32W064	3	X	X	X	1		

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Mike Hennel	1/30/92 1600	George Pumpa	→	01/30/92 1600		RA
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: N/A
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 1/30/92

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234088

3200237

SAMPLE INSPECTION AND IDENTIFICATION SHEET/OUT OF CONTROL EVENTS

Client: ECOLOGY & ENVIRONMENT, INC. ATI Lab ID # 92- 0828

PROJ NUMBER: UH 9000

PROJ NAME: IWTP GW SAMPLING NASP

SAMPLED BY: G. G. / M. H.

SAMPLE SITE: NIS

SAMPLE DATE: 01/31/92

SAMPLE TIME: AM & PM

SAMPLE TYPE: GROUNDWATER

RUSH: Y (N) QC: (N) 0 1 2 3 4

Date Received: 01/31/92

Is there a chain of custody? (Y) N

Was chain of custody signed? (Y) N

Were samples received cold? (Y) N

Were samples received in proper containers? (Y) N

Were samples preserved correctly? (Y) (N) 01/31/92

Were air bubbles present in volatile bottles? N/A Y N

Were samples within holding time? (Y) N

SHIPPED BY: DROP OFF

	SAMPLE	DATE
1	P32WOPCD-1	01/31/92
2	P32WOPCT-1	
3	P32WOPCS-1	01/31/92
4		
5		
6		
7		
8		
9		
10		
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OUT OF CONTROL EVENTS: SAMPLE P32WORB03 NEEDS UNPRESERVED BOTTLE FOR ANALYSIS.

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M APPROVAL _____ INSPECTED BY _____ DATE INSPECTED 01/31/92

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ecology and environment, inc.

300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD 92-0828

Project No.: UH9000
Project Name: INTP GW SAMPLING NASP
Project Manager: MIKE GRECH
Samplers: (Signatures) G. Mike Grech / Mike Hent
Field Team Leader: MIKE GRECH

STATION NUMBER	DATE 1992	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Turbidity	Total Coliform	Nitrate			REMARKS
P32WORB03	1/31	1230		X		DW level	P32WORB03	1			X			Turbidity and T. Coliform chilled
P32WOPCD1	"	1630		X		" "	P32WOPCD-1	3	X	X	X			Nitrate Pres HNO3 cooled to 4°C
P32WOPCI-1	"	1145		X		" "	P32WOPCI-1	3	X	X	X			
P32WOPCS-1	"	1230		X		" "	P32WOPCS-1	3	X	X	X			

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Mike Grech	1/31/92 1700	[illegible] 1/31/92 1700				
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 1/31/92

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234055

220023

ecology ana environment. inc.
316 SOUTH BAYLEN STREET, PENSACOLA, FLORIDA 32501, TEL. (904) 435-8925
International Specialists in the Environment

March 25, 1992

Commanding Officer
Attn: (Code 18211)
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive, P.O. Box 10068
Charleston, SC 29411-0068

Re: Draft January 1992 Semiannual Report on Groundwater Monitoring, wastewater Treatment Facility, Contamination Assessment/Remedial Activities Investigation, Naval Air Station Pensacola, Florida, Contract No. N62467-88-C-0200, Modification No. 13.

Dear Sir:

Ecology and Environment, Inc., (E & E) is pleased to submit two copies of the draft Semiannual Report on Groundwater Monitoring, Wastewater Treatment Facility, Naval Air Station (NAS) Pensacola, Florida, for the January 1992 sampling event. The groundwater sampling was conducted January 29, 30, and 31, 1992. Two copies of the report have also been sent to Greg Campbell at the NAS Pensacola Public Works Center and one copy of the report has been sent to Paul Stoddard of EnSafe, the CLEAN II contractor project manager for this site.

If there are any questions or comments concerning this report or other matters pertaining to the project, please feel free to contact me or John Barkcdale in Pensacola at (904) 435-8925, or Rick Rudy in Tallahassee at (904) 877-1978.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Donna Dietrich for

Amy Twitty
Project Manager

AT/jpq
Attachments
[NASP]UH9000:032592

cc: J. Wilcox; E & E--Buffalo/Central File UH9000
R. Rudy; E & E--Tallahassee/Central File
J. Barkcdale; E & E--Pensacola
C. Tronolone; E & E--Buffalo
P. Stoddard; Ensafe--Hemphis

recycled paper