N00204.AR.005212
NAS PENSACOLA
5090.3a

QUARTERLY REPORT FOR CORRECTIVE ACTION AT THE WASTEWATER TREATMENT PLANT DECEMBER 1988 TO MARCH 1989 WITH CERTIFICATION STATEMENT NAS PENSACOLA FL

5/23/1989

NAVAL AIR STATION PENSACOLA

QUARTERLY REPORT
CORRECTIVE ACTION PROGRAM WWTP
12/88 TO 3/89
NAS PENSACOLA, FLORIDA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

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

GMS # 1017F00625 DATE 23 May 1989

DER PERMIT # HF17-148989

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

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

A. R. SHAW | CAPT., C.E.C., USN | Commanding Officer
Owner or Authorized Representative's Name | Title

Method of Discharge NA

Type of Industry Military

Report for Period 12/88 (date) to 3/89 (date)

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality 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 Rule 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 report 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 boundary.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner or Authorized Representative's Signature — Date 5/23/89

DEPARTMENT OF THE NAVY
NAVY PUBLIC WORKS CENTER
NAVAL AIR STATION
PENSACOLA, FLORIDA 32508-6500

IN REPLY REFER TO:

5090/1017F00625
Code 480
23 May 1989

Mr. William E. Kellenberger
Hazardous Waste Engineer, Northwest District
Florida Department of Environmental Regulation
160 Governmental Center
Pensacola, Florida 32501-5794

Re: CLOSURE PERMIT HF17-148989, CLOSE SURFACE IMPOUNDMENT

Dear Mr. Kellenberger:

Enclosed are the first-quarter results of the water-quality analyses as required by the above-referenced permit, Specific Condition 25. The report lists the wells that were sampled from March 14 through March 16, 1989 and the analyses that were performed for the Corrective-Action (CA) monitoring and Point-of-Compliance (POC) monitoring. All analyses were performed using EPA-approved methodologies by Pioneer Laboratory, Inc., Pensacola, Florida. The data was reviewed and validated by our consultant's (Geraghty & Miller, Inc.) quality assurance officer.

The results of analyses for the CA and POC monitor wells are reported on DER Form 17-1.216(2).

Also enclosed is a supplemental report including all laboratory analytical data and QA/QC supporting documentation for the CA and POC analyses. The third enclosure contains the results of the Appendix IX analysis of monitor well GM-66 and the QA/QC supporting documentation.

The following is a brief summary of the analytical results.

During the first quarter of sampling, the following specific conductance values were measured in ground-water samples:

- Eleven shallow monitor wells were less than 550 micromhos per centimeter (umhos/cm); 3 shallow monitor wells were between 700 and 900 umhos/cm; 3 shallow monitor wells were between 1,200 and 10,000 umhos/cm. With the exception of GM-71, and GM-72, the specific conductance values observed in shallow monitor wells were generally similar to or less than values observed during previous investigations at the site. The higher values are likely due to the low water-table elevation at the site and the proximity of these wells to the sea water.

- Intermediate monitor wells ranged from about 1,500 to 5,000 umhos/cm, with the exception of GM-84 (located adjacent to the bay) which was higher. The specific conductance values observed were similar to those recorded during previous investigations.

- Deep monitor wells were less than 600 umhos/cm except for GM-63 which was higher. Again, the observed values were similar to historical data.

The concentrations of sodium and chloride corresponded well with observed specific conductance values and were generally higher in the intermediate zone than in the shallow depth zone of the aquifer. Monitor wells GM-71, GM-72 and GM-84 contained the highest concentrations of sodium and chloride.

Generally, the pH of groundwater from the various depth wells ranged from 5 to 7. The pH in monitor well GM-66 was 3.5 which is typical for this well.

Of the inorganic parameters analyzed in the POC wells, only manganese in monitor wells GM-8 through GM-10, GM-12R and GM-14, iron in monitor wells UG-1, GM-8, GM-9 and GM-13, and sodium in monitor well GM-14 exceeded the groundwater protection standard.

With regard to analyses for organic compounds in POC and CA monitor wells, the following observations are noted:

- Of the eight POC wells analyzed, volatile organic compounds (VOCs) were detected in three monitor wells (GM-8 through GM-10); base-neutral extractables (BNEs) were detected in wells GM-8 and GM-10; acid extractables were detected in GM-8 only.

- No VOCs or BNEs were detected in deep CA monitor wells (GM-63, GM 65 and GM-68).

- The highest concentrations of VOCs and BNEs occurred in the intermediate CA monitor wells GM-66 and GM-69. No VOCs or BNEs were detected in intermediate well GM-84.

- The predominant organic compounds detected during the first quarter sampling event, and during previous investigations at the site include dichlorobenzenes, 1,1-dichloroethane, 1,1,1-trichloroethane, 1,1,-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, chlorobenzene, and trichlorethene. As noted in the data validation summary, the 7-day holding time was exceeded for selected organic compounds including benzene, toluene, ethylbenzene and xylenes. The selected compounds, however, have not been of primary interest at the site and the predominant compounds previously mentioned were not effected.

Concerning the Appendix IX analysis of groundwater from monitor well GM-66, the following observations are noted:

- No pesticides or herbicides were detected in the sample. Other organic compounds detected in the sample were similar to those typically found at the site.

- No polychlorinated dibenzo dioxins/furans were detected. Monitor well GM-66 was resampled on April 7, 1989 for analysis of these compounds because the laboratory inadvertently allowed the original sample to exceed permissible holding times.

Point of contact for this report is Mr. E. A. Pike. Feel free to call him at (904) 452-3790 if you have any questions.

Sincerely,

Encl:
(1) Qrtly Monitoring Report
(2) AQ/QC Supporting Documentation
(3) Appendix IX Monitoring Report

Copy to:
CO SOUTHNAVFACENGCOM (1143) w/o encl

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Attachment C	Corrective-Action Monitor Wells, Results of Water-Quality Analyses.
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BAC

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ATTACHMENT A

List of Wells and Analytical Parameters Provided by Navy

LIST I VOLATILE METHOD 624

PARAMETER	UNITS	RESULT	DETECTION LIMIT
BENZENE	PPB		1
BROMODICHLOROMETHANE	PPB		5
BROMOFORM	PPB		5
BROMOMETHANE	PPB		5
CARBON TETRACHLORIDE	PPB		3
CHLORO BENZENE	PPB		1
CHLOROETHANE	PPB		5
2-CHLOROETHYLVINYL ETHER	PPB		5
CHLOROFORM	PPB		5
CHLOROMETHANE	PPB		5
DIBROMOCHLOROMETHANE	PPB		5
1,1-DICHLOROETHANE	PPB		5
1,2-DICHLOROETHANE	PPB		3
1,1-DICHLOROETHENE	PPB		5
TRANS-1,2-DICHLOROETHENE	PPB		5
1,2-DICHLOROPROPANE	PPB		5
CIS-1,3-DICHLOROPROPANE	PPB		5
TRANS-1,3-DICHLOROPROPENE	PPB		5
ETHYL BENZENE	PPB		1
METHYLENE CHLORIDE	PPB		5
1,1,2,2-TETRACHLOROETHANE	PPB		5
TETRACHLOROETHENE	PPB		3
TOLUENE	PPB		1
1,1,1-TRICHLOROETHANE	PPB		5
1,1,2-TRICHLOROETHANE	PPB		5
TRICHLOROETHENE	PPB		1
TRICHLOROFLUOROMETHANE	PPB		5
VINYL CHLORIDE	PPB		1

LIST II BASE/NEUTRAL EXTRACTABLES METHOD 625

PARAMETER	UNITS	RESULT	DETECTION LIMIT
ACENAPHTHENE	PPB		10
ACENAPHTHYLENE	PPB		10
ANTHRACENE	PPB		10
BENZIDENE	PPB		10
BENZO(A)ANTHRACENE	PPB		10
BENZO(A)PYRENE	PPB		10
BENZO(GHI)PERYLENE	PPB		10
BENZO(K)FLUORANTHENE	PPB		10
BIS(2-CHLOROETHOXY)METHANE	PPB		10
BIS(2-CHLOROETHYL) ETHER	PPB		10
BIS(2-CHLOROISOPROPYL)ETHER	PPB		10
BIS(ETHYL HEXYL) PHTHALATE	PPB		10
BUTYLBENZYL PHTHALATE	PPB		10
CHRYSENE	PPB		10
DIBENZ(A,H)ANTHRACENE	PPB		10
DI ETHYL PHTHALATE	PPB		10
DIMETHYL PHTHALATE	PPB		10
DI-N-BUTYL PHTHALATE	PPB		10
DI-N-OCTYL PHTHALATE	PPB		10
FLUORANTHENE	PPB		10
FLUORENE	PPB		10
HEXACHLOROBENZENE	PPB		10
HEXACHLOROBUTADIENE	PPB		10
HEXACHLOROCYCLOPENTADIENE	PPB		10
HEXACHLOROETHANE	PPB		10
INDENO(1,2,3-CD)PYRENE	PPB		10
ISOPHORONE	PPB		10
NAPHTHALENE	PPB		10
NITROBENZENE	PPB		10
N-NITROSODIMETHYLAMINE	PPB		10
N-NITROSODI-N-PROPYLAMINE	PPB		10
N-NITROSODIPHENYLAMINE	PPB		10
PHENANTHRENE	PPB		10
PYRENE	PPB		10
1,2,4-TRICHLOROBENZENE	PPB		10

LIST II (CONTINUED)

PARAMETER	UNITS	RESULT	DETECTION LIMIT
1,2-DICHLOROBENZENE	PPB		10
1,2-DIPHENYLHYDRAZINE	PPB		10
1,3-DICHLOROBENZENE	PPB		10
1,4-DICHLOROBENZENE	PPB		10
2,4-DINITROTOLUENE	PPB		10
2,6-DINITROTOLUENE	PPB		10
2-CHLORONAPHTHALENE	PPB		10
3,3-DICHLOROBENZIDINE	PPB		10
3,4-BENZOFLUORANTHENE	PPB		10
4-BROMOPHENYL PHENYL ETHER	PPB		10
4-CHLOROPHENYL PHENYL ETHER	PPB		10

LIST III SPECIFIC CONDITION 34C PERMIT H017-127026

PARAMETER	TEST METHOD	UNITS	RESULTS	DETECTION LIMIT
2-CHLOROPHENOL	8270 ACIDS	PPB		10
2,4-DICHLORPHENOL	8270 ACIDS	PPB		10
2,4-DIMETHYL PHENOL	8270 ACIDS	PPB		10
4,6-DINITRO-O-CRESOL	8270 ACIDS	PPB		50
2,4-DINITROPHENOL	8270 ACIDS	PPB		50
2-NITROPHENOL	8270 ACIDS	PPB		10
4-NITROPHENOL	8270 ACIDS	PPB		50
p-CHLRO-m-CRESOL	8270 ACIDS	PPB		20
PENTACHLOROPHENOL	8270 ACIDS	PPB		50
PHENOL	8270 ACIDS	PPB		10
2,4,6-TRICHLOROPHENOL	8270 ACIDS	PPB		20
2-METHYL PHENOL		PPB		
o-METHYL PHENOL		PPB		
METHYL ETHYL PHENOL		PPB		
DIMETHYL ETHYL PHENOL		PPB		
TETRAMETHYL BUTYL PHENOL		PPB		
ACROLEIN	8240	PPB		5
ACRYLONITRILE	8240	PPB		5
BIS(CHLOROMETHYL)ETHER		PPB		
DICHLRODIFLUOROMETHANE	8240	PPB		5
METHYL ETHYL KETONE	8240	PPB		100
METHYL NAPHTHALENE		PPB		
2-METHYL NAPHTHALENE	8270 BASE/N	PPB		10
N-NITROSODIPHENYLAMIDE		PPB		
BENZYL ALCOHOL	8270 BASE/N	PPB		20
METHYL DIHYDRO INDENE		PPB		
TETRAMETHYL BENZENE		PPB		
"ALKYLATED" BENZENE		PPB		
2-HEXANONE	8240	PPB		
TRIMETHYL BENZENE		PPB		
HYDROXYMETHYL PENTANONE		PPB		
CYANIDE (COMPLEXED)	9010	PPB		

LIST III (CONTINUED)

PARAMETER	TEST METHOD	UNITS	RESULTS	STANDARD	DETECTECTION LIMIT
ARSENIC	7060	PPB		50	10
BARIUM	6010	PPB		1000	20
CADMIUM	7131	PPB		10	1
CHROMIUM(TTL)	6010	PPB		50	70
CHROMIUM(HEXAVALENT)		PPB			
LEAD	7421	PPB		50	10
MERCURY	7470	PPB		2	2
SELENIUM	7740	PPB		10	20
SILVER	6010	PPB		50	70
COPPER	6010	PPB		1000	60
ZINC	6010	PPB		5000	20
IRON		PPB		300	
MANGANESE		PPB		50	
ANTIMONY	6010	PPB		DETECTION LIMIT	300
THALLIUM	6010	PPB		DETECTION LIMIT	400
NICKEL	6010	PPM		DETECTION LIMIT	50
CHLORIDE	300.0	PPM		250	
SULFATE		PPM		250	
SODIUM	200.7	PPM		160	

LIST IV 40 CFR 264 APP.IX LESS LISTS I AND II
A: INORGANICS

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
ANTIMONY (TOTAL)	6010	PPB		300
ARSENIC (TOTAL)	6010	PPB		500
BARIUM (TOTAL)	6010	PPB		20
BERYLLIUM (TOTAL)	6010	PPB		3
CADMIUM (TOTAL)	6010	PPB		40
CHROMIUM (TOTAL)	6010	PPB		70
CHROMIUM (HEXAVALENT)		PPB		
COBALT (TOTAL)	6010	PPB		70
COPPER (TOTAL)	6010	PPB		60
CYANIDE	9010	PPB		40
LEAD (TOTAL)	6010	PPB		40
MERCURY (TOTAL)	7470	PPB		2
NICKEL (TOTAL)	6010	PPB		50
SELENIUM (TOTAL)	6010	PPB		750
SILVER (TOTAL)	6010	PPB		70
SULFIDE	9030	PPB		10,000
THALLIUM (TOTAL)	6010	PPB		400
TIN (TOTAL	7870	PPB		8,000
VANADIUM (TOTAL)	6010	PPB		80
ZINC (TOTAL)	6010	PPB		20

LIST IV B: VOLATILES (METHOD 8240)

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
ACETONE		PPB		100
ACROLEIN		PPB		5
ACRYLONITRILE		PPB		5
ALLYL CHLORIDE		PPB		100
CARBON DISULFIDE		PPB		5
CHLOROPRENE		PPB		5
1,2-DIBROMOETHANE		PPB		5
TRANS-1,4-DICHLORO-2-BUTENE		PPB		5
DICHLORODIFLUOROMETHANE		PPB		5
ETHYL METHACRYLATE		PPB		5
2-HEXANONE		PPB		50
ISOBUTYL ALCOHOL		PPB		
METHACRYLONITRILE		PPB		5
METHYLENE BROMIDE		PPB		5
METHYL ETHYL KETONE		PPB		10
METHYL IODIDE		PPB		5
METHYL METHACRYLATE		PPB		5
METHYL ISOBUTYL KETONE		PPB		50
PROPIONITRILE		PPB		5
STYRENE		PPB		5
1,1,1,2-TETRACHLOROETHANE		PPB		5
1,2,3-TRICHLOROPROPANE		PPB		5
VINYL ACETATE		PPB		5
XYLENE (TOTAL)		PPB		5

LIST IV C: ACID EXTRACTABLES METHOD 8270

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
p-CHLORO-m-CRESOL		PPB		20
2-CHLOROPHENOL		PPB		10
m-CRESOL		PPB		10
o-CRESOL		PPB		10
p-CRESOL		PPB		10
2,4-DICHLOROPHENOL		PPB		10
2,6-DICHLOROPHENOL		PPB		10
2,4-DIMETHYL PHENYL		PPB		10
4,6-DINITRO-o-CRESOL		PPB		50
2,4-DINITROPHENOL		PPB		50
o-NITROPHENOL		PPB		10
p-NITROPHENOL		PPB		10
PENTACHLOROPHENOL		PPB		50
PHENOL		PPB		10
2,3,4,6-TETRA CHLOROPHENOL		PPB		10
2,4,5-TRICHLROPHENOL		PPB		10
2,4,6-TRICHLOROPHENOL		PPB		10

LIST IV (CONTINUED)
D: BASE NEUTRALS METHOD 8270

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
ACETOPHENONE		PPB		10
2-ACETYLAMINOFLUORENE		PPB		10
4-AMINOBIPHENYL		PPB		10
ANILINE		PPB		10
ARAMITE		PPB		10
BENZO(b)FLUORANTHENE		PPB		10
BENZYL ALCOHOL		PPB		20
BIS(2-CHLORO-1-METHYLETHYL) ETHER		PPB		10
p-CHLOROANILINE		PPB		20
CHLOROBENZILATE		PPB		10
DIALLATE		PPB		10
DIBENZOFURAN		PPB		10
1,2-DIBROMO-3-CHLOROPROPANE		PPB		10
DI-N-BUTYL PHTHALATE		PPB		10
0.0-DIETHYL 0-2-PYRAZINYL PHOSPHOROTHIOATE		PPB		10
DIMETHOATE		PPB		10
p-(DIMETHYLAMINO) AZOBENZENE		PPB		10
7,12-DIMETHYL BENZ(a) ANTHRACENE		PPB		10
3,3-DIMETHYL BENZIDINE		PPB		10
alph, alpha-DIMETHYLPHENETHYLAMINE		PPB		10
m-DINITROBENZENE		PPB		10
DIPHENYLAMINE		PPB		10
ETHYL METHANE SULFONATE		PPB		10
FAMPHUR		PPB		10
HEXACHLOROPHENE		PPB		10
ISODRIN		PPB		10
ISAFROLE		PPB		10
KEPONE		PPB		10
METHAPYRILENE		PPB		10
3-METHYCHOLANTHENE		PPB		10
METHYL METHANE SULFONATE		PPB		10
2-METHYL NAPHTHALENE		PPB		10

LIST IV (CONTINUED)
D: BASE NEUTRALS METHOD 8270

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
1,4-NAPHTHOQUINONE		PPB		10
1-NAPHTHYLAMINE		PPB		10
2-NAPHTHYLAMINE		PPB		10
o-NITROANILINE		PPB		50
m-NITROANILINE		PPB		50
p-NITROANILINE		PPB		50
4-NITROQUINOLINE 1-OXIDE		PPB		10
N-NITROSODI-n-BUTYLAMINE		PPB		10
N-NITROSODIETHYLAMINE		PPB		10
N-NITROSOMETHYLETHYLAMINE		PPB		10
N-NITROSOMORPHOLINE		PPB		10
N-NITROSOPIPERIDINE		PPB		10
N-NITROSOPYRROLIDINE		PPB		10
5-NITRO-o-TOLUIDINE		PPB		10
PARATHION		PPB		10
PENTACHLOROBENZENE		PPB		10
PENTACHLOROETHANE		PPB		10
PENTACHLORONITROBENZENE		PPB		10
PHENACETIN		PPB		10
p-PHENYLENEDIAMINE		PPB		10
2-PICOLINE		PPB		10
PRONAMIDE		PPB		10
PYRIDINE		PPB		10
SAFROLE		PPB		10
1,2,4,5-TETRACHLOROBENZENE		PPB		10
o-TOLUIDINE		PPB		10
0,0,0-TRIETHYLPHOSPHOROTHIOATE		PPB		10
sym-TRINITROBENZENE		PPB		10
TETRAETHYL DITHIOPYROPHOSPHATE		PPB		10

LIST IV E: PESTICIDES METHOD 8080

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
ALDRIN		PPB		0.05
alpha-BHC		PPB		0.05
beta-BHC		PPB		0.05
delta-BHC		PPB		0.1
gamma-BHC (LINDANE)		PPB		0.05
CHLORDANE		PPB		0.1
4,4-DDD		PPB		0.1
4,4-DDE		PPB		0.05
4,4-DDT		PPB		0.1
DIELDRIN		PPB		0.05
DISULFOTON		PPB		
ENDOSULFAN I		PPB		0.1
ENDOSULFAN II		PPB		0.05
ENDOSULFAN SULFATE		PPB		0.5
ENDRIN		PPB		0.1
ENDRIN ALDEHYDE		PPB		0.2
HEPTACHLOR		PPB		0.05
HEPTACHLOR EPOXIDE		PPB		1.
METHOXYCHLOR		PPB		2
METHYL PARATHION		PPB		
POLYCHLORINATED BIPHENYLS		PPB		50
PHORATES		PPB		
TOXAPHENE		PPB		2

LIST IV F: HERBICIDES METHOD 8150

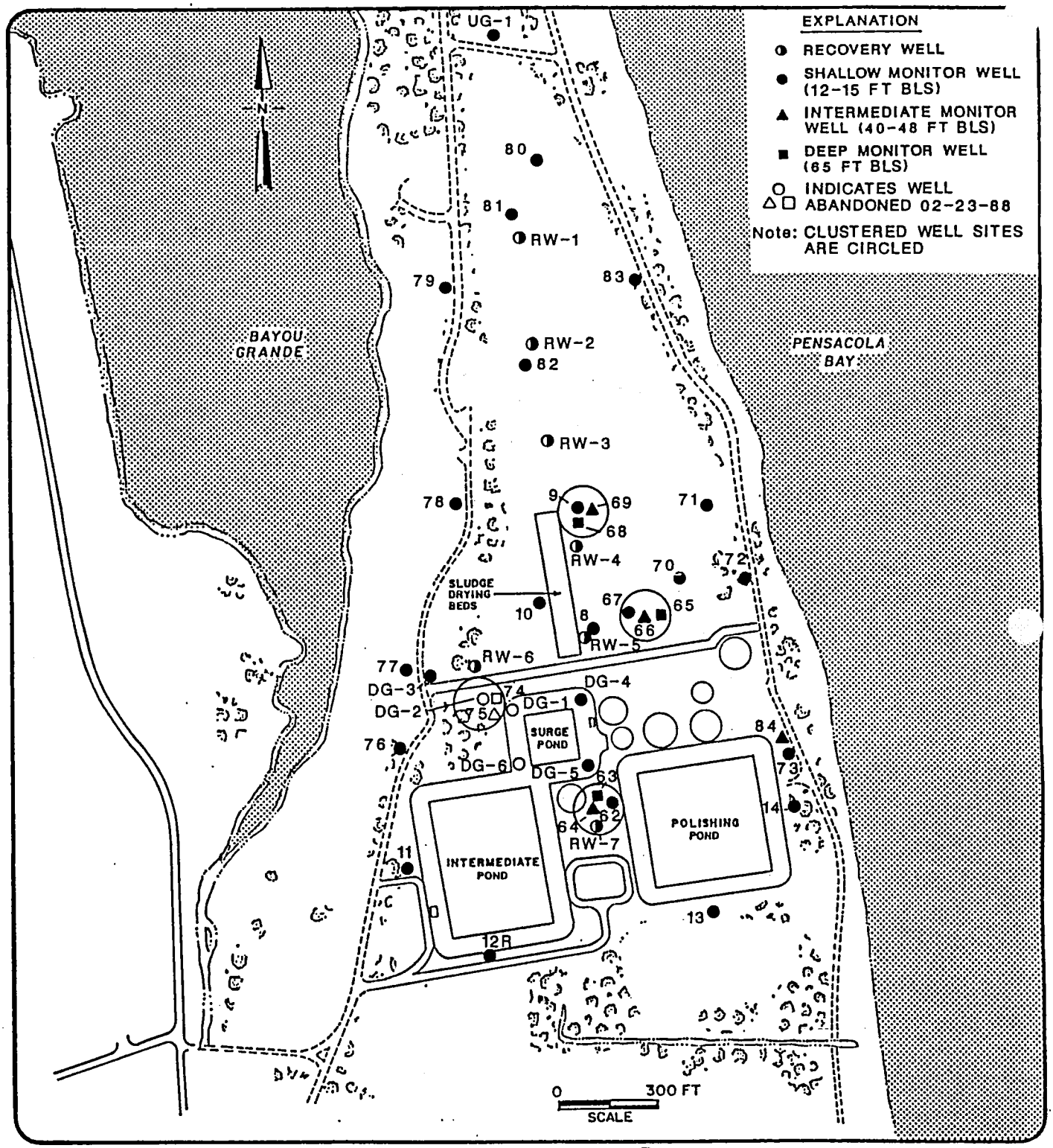
PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
2,4-DICHLOROPHENOXY ACETIC ACID		PPB		10
DINOSEB		PPB		1
2,4,5-TRICHLORPHENOXY ACETIC ACID		PPB		2
2,4,5-TP (SILVEX)		PPB		2

LIST IV G: OTHER METHODS AND DIOXINS

PARAMETER	METHOD	UNITS	RESULTS	DETECTECTION LIMITS
ACETONITRILE	8015	PPB		100
1,4-DIOXANE	8015	PPB		150
POLYCHLORINATED DIBENZO -p-DIOXINS	8280	PPB		0.01
POLYCHLORINATED DIBENZOFURANS	8280	PPB		0.01
2,3,7,8-TETRACHLORDI BENZO-p-DIOXIN	8280	PPB		0.005

ATTACHMENT B

Locations of Monitor Wells at
NAS Pensacola Wastewater Treatment Plant



Attachment B.

Locations of Monitor Wells at NAS Pensacola Wastewater Treatment Plant

CLIENT NAME:

Naval Facilities Engineering Command, Southern Division

ATTACHMENT C

Corrective-Action Monitor Wells
Results of Water-Quality Analyses

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-62

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.92 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.26		Unfiltered	
	Specific conductance	"	120.1	380	umhos/cm	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/8

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-3
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-62 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

ample ID.: GM-62 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-3
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-62 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-3
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-62 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	16	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	32	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	8	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

end of report

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-63

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 2.94 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.87		Unfiltered	
	Specific conductance	"	120.1	2100	umhos/cm	"	
	Sodium	"	200.7	515	mg/L	"	Nitric Acid
	Chloride	"	325.3	803	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/5

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

ıient: GERAGHTY & MILLER
7001

Lab I.D.#: 89-0899-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

ample Site: NAS PENSACOLA
ample Type: GROUNDWATER

Sample ID.: GM-63 Sample Date: 03/16/89 Time: N/S

BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
),4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
NZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
IBENZO(A,H)ANTHRACENE	PPB	BDL	25
2-DICHLOROBENZENE	PPB	BDL	10
3-DICHLOROBENZENE	PPB	BDL	10
4-DICHLOROBENZENE	PPB	BDL	10
'-DICHLOROBENZIDINE	PPB	BDL	10
THYL PHTHALATE	PPB	BDL	10
THYL PHTHALATE	PPB	BDL	10
BUTYL PHTHALATE	PPB	BDL	10
NITROTOLUENE	PPB	BDL	10
NITROTOLUENE	PPB	BDL	10
TYL PHTHALATE	PPB	BDL	10
HENYLHYDRAZINE	PPB	BDL	10
HENE	PPB	BDL	10
	PPB	BDL	10
OBENZENE	PPB	BDL	10
BUTADIENE	PPB	BDL	10
CYCLOPENTADIENE	PPB	BDL	10

: GM-63

Test Parameters continued on next pac

LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-63 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-63 Sample Date: 03/16/89 Time: N/S

DL/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-64

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) -0.46 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.42		Unfiltered	
	Specific conductance	"	120.1	1560	umhos/cm	"	
	Sodium	"	200.7	515	mg/L	"	Nitric Acid
	Chloride	"	325.3	407	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-64 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	32	10
1,3-DICHLOROBENZENE	PPB	10	10
1,4-DICHLOROBENZENE	PPB	14	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-64 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-64 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0899-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-64 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	12	1
CHLOROETHANE	PPB	6	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	7	5
1,3-DICHLOROBENZENE	PPB	7	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	9	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	4	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-65

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 1.98 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.60		Unfiltered	
	Specific conductance	"	120.1	600	umhos/cm	"	
	Sodium	"	200.7	100	mg/L	"	Nitric Acid
	Chloride	"	325.3	151	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-65 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-65 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-65 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-65 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

.IS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-66

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.32 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	3.5		Unfiltered	
	Specific conductance	"	120.1	5100	umhos/cm	"	
	Sodium	"	200.7	662	mg/L	"	Nitric Acid
	Chloride	"	325.3	507	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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)
'ffective January 1, 1983

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-66 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	46	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	18	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

ample ID.: GM-66 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-66 Sample Date: 03/16/89 Time: N/S

'BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	80	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-2
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-66 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	10
BROMODICHLOROMETHANE	PPB	BDL	50
BROMOFORM	PPB	BDL	50
BROMOMETHANE	PPB	BDL	50
CARBON TETRACHLORIDE	PPB	BDL	30
CHLOROBENZENE	PPB	70	10
CHLOROETHANE	PPB	BDL	50
-CHLOROETHYLVINYL ETHER	PPB	BDL	50
LOROFORM	PPB	BDL	50
CHLOROMETHANE	PPB	BDL	50
DIBROMOCHLOROMETHANE	PPB	BDL	50
1,2-DICHLOROBENZENE	PPB	BDL	50
1,3-DICHLOROBENZENE	PPB	BDL	50
1,4-DICHLOROBENZENE	PPB	BDL	50
1,1-DICHLOROETHANE	PPB	BDL	50
1,2-DICHLOROETHANE	PPB	BDL	30
1,1-DICHLOROETHENE	PPB	310	50
TRANS-1,2-DICHLOROETHENE	PPB	1290	50
1,2-DICHLOROPROPANE	PPB	BDL	50
CIS-1,3-DICHLOROPROPENE	PPB	BDL	50
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	50
ETHYL BENZENE	PPB	BDL	10
METHYLENE CHLORIDE	PPB	BDL	50
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	50
TETRACHLOROETHENE	PPB	BDL	30
TOLUENE	PPB	10	10
1,1,1-TRICHLOROETHANE	PPB	BDL	50
1,1,2-TRICHLOROETHANE	PPB	BDL	50
TRICHLOROETHENE	PPB	8900	100
TRICHLOROFLUOROMETHANE	PPB	BDL	50
VINYL CHLORIDE	PPB	380	10

end of report

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-67

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.58 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	7.01		Unfiltered	
	Specific conductance	"	120.1	440	umhos/cm	"	
	Sodium	"	200.7	20	mg/L	"	Nitric Acid
	Chloride	"	325.3	71	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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)
ffective January 1, 1983

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-67 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	11	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-67 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-67 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0900-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-67 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

MS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-68

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

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

Ground Water 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	Peri-staltic Pump	150.1	7.10		Unfiltered	
	Specific conductance	"	120.1	490	umhos/cm	"	
	Sodium	"	200.7	57	mg/L	"	Nitric Acid
	Chloride	"	325.3	111	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0896-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-68 Sample Date: 03/15/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
ENZO(GHI)PERYLENE	PPB	BDL	10
ENZO(K)FLUORANTHENE	PPB	BDL	10
IS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-68

Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0896-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-68 Sample Date: 03/15/89 Time: N/S

?/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # EB1010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0896-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-68 Sample Date: 03/15/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

end of report

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

MS # 1017F00625

Sample Date 03/14/89

Monitoring Well # GM-69

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.35 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	7.15		Unfiltered	
	Specific conductance	"	120.1	2200	umhos/cm	"	
	Sodium	"	200.7	669	mg/L	"	Nitric Acid
	Chloride	"	325.3	807	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0875-1
Order Date: 03/14/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-69 Sample Date: 03/14/89 Time: N/S

BASE/625 PP BASE/NEUTRAL EXTRACTABLES

arameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
ENZO(GHI)PERYLENE	PPB	BDL	10
ZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	640	100
1,3-DICHLOROBENZENE	PPB	670	100
1,4-DICHLOROBENZENE	PPB	570	100
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

mple ID.: GM-69 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0875-1
Order Date: 03/14/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-69 Sample Date: 03/14/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0875-1
Order Date: 03/14/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-69 Sample Date: 03/14/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	3	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	25	5
-CHLOROETHYLVINYL ETHER	PPB	BDL	5
ILOROFORM	PPB	BDL	5
HLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	1360	50
1,3-DICHLOROBENZENE	PPB	980	50
1,4-DICHLOROBENZENE	PPB	1510	50
1,1-DICHLOROETHANE	PPB	79	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	4	3
TOLUENE	PPB	3	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	14	1

 end of report

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-71

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.26 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.4		Unfiltered	
	Specific conductance	"	120.1	10,100	umhos/cm	"	
	Sodium	"	200.7	3201	mg/L	"	Nitric Acid
	Chloride	"	325.3	5775	mg/L	"	

*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

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-72

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.48 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.68		Unfiltered	
	Specific conductance	"	120.1	8100	umhos/cm	"	
	Sodium	"	200.7	2793	mg/L	"	Nitric Acid
	Chloride	"	325.3	5387	mg/L	"	

*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

621/7

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-76

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 1.01 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.42		Unfiltered	
	Specific conductance	"	120.1	360	umhos/cm	"	
	Sodium	"	200.7	22	mg/L	"	Nitric Acid
	Chloride	"	325.3	32	mg/L	"	

*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

621/7

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-77

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) --- ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.45		Unfiltered	
	Specific conductance	"	120.1	900	umhos/cm	"	
	Sodium	"	200.7	117	mg/L	"	Nitric Acid
	Chloride	"	325.3	208	mg/L	"	

*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

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-78

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.6 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.22		Unfiltered	
	Specific conductance	"	120.1	84	umhos/cm	"	
	Sodium	"	200.7	2.2	mg/L	"	Nitric Acid
	Chloride	"	325.3	5	mg/L	"	

*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

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-79

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.12 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.34		Unfiltered	
	Specific conductance	"	120.1	880	umhos/cm	"	
	Sodium	"	200.7	5.9	mg/L	"	Nitric Acid
	Chloride	"	325.3	6	mg/L	"	

*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

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-83

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.31 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.27		Unfiltered	
	Specific conductance	"	120.1	190	umhos/cm	"	
	Sodium	"	200.7	24	mg/L	"	Nitric Acid
	Chloride	"	325.3	44	mg/L	"	

*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

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-84

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.40 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.5		Unfiltered	
	Specific conductance	"	120.1	11,800	umhos/cm	"	
	Sodium	"	200.7	4450	mg/L	"	Nitric Acid
	Chloride	"	325.3	6927	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*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

621/5

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-84 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-84 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81147 • EPA # FL024 • EDER # FL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-84 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0920-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-84 Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # Comp Discharge

Well Type:

Well Name Composite discharge from recovery system

Corrective-Action

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) NA ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.54		Unfiltered	
	Specific conductance	"	120.1	1000	umhos/cm	"	
	Sodium	"	200.7	160	mg/L	"	Nitric Acid
	Chloride	"	325.3	182	mg/L	"	

*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

ATTACHMENT D

Point-of-Compliance Monitor Wells
Results of Water-Quality Analyses

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

GMS # 1017F00625

Sample Date 03/14/89

Monitoring Well # UG-1

Well Type:

Well Name Shallow background

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) -0.4 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.83		Unfiltered	
	Specific conductance	"	120.1	160	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

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

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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0874
Order Number: P18817
Order Date: 03/14/89
Sampled By: DWL/TJZ
Sample Date: 03/14/89
Sample Time: N/S

Project Number: TF0290PN12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitte

ab ID	Sample ID	Parameter	Units	Results	Detectic Limit
89-0874-1	UG-1	SILVER	PPM	BDL	0.0001
9-0874-1	UG-1	ARSENIC	PPM	BDL	0.001
89-0874-1	UG-1	BARIUM	PPM	BDL	0.02
89-0874-1	UG-1	CADMIUM	PPM	BDL	0.0001
9-0874-1	UG-1	CHLORIDE	PPM	12	1
9-0874-1	UG-1	CHROMIUM	PPM	BDL	0.01
89-0874-1	UG-1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0874-1	UG-1	COPPER	PPM	BDL	0.01
-0874-1	UG-1	CYANIDE,COMPLEX	PPM	BDL	0.005
-0874-1	UG-1	IRON	PPM	0.67	0.02
89-0874-1	UG-1	MERCURY	PPM	BDL	0.0001
9-0874-1	UG-1	MANGANESE	PPM	BDL	0.01
9-0874-1	UG-1	SODIUM	PPM	9.6	0.10
89-0874-1	UG-1	NICKEL	PPM	BDL	0.05
89-0874-1	UG-1	LEAD	PPM	BDL	0.001
9-0874-1	UG-1	ANTIMONY	PPM	BDL	0.05
9-0874-1	UG-1	SELENIUM	PPM	BDL	0.001
89-0874-1	UG-1	SULFATE	PPM	8.4	1.0
89-0874-1	UG-1	THALLIUM	PPM	BDL	0.1
9-0874-1	UG-1	ZINC	PPM	BDL	0.01
9-0874-1	UG-1	ALKYLATED BENZENE	PPB	BDL	10
89-0874-1	UG-1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
9-0874-1	UG-1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
9-0874-1	UG-1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0874-1	UG-1	METHYL ETHYL KETONE	PPB	BDL	10
89-0874-1	UG-1	METHYL DIHYDRO INDENE	PPB	BDL	10
9-0874-1	UG-1	METHYL ETHYL PHENOL	PPB	BDL	10
9-0874-1	UG-1	METHYL NAPTHALENE	PPB	BDL	10
89-0874-1	UG-1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0874-1	UG-1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
9-0874-1	UG-1	TRIMETHYL BENZENE	PPB	BDL	10

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Meth
Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and
Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowen

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

:ID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL02D • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: UG-1 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

E /8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: UG-1 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: UG-1 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

VOL/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: UG-1 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0874-1
Order Date: 03/14/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: UG-1 Sample Date: 03/14/89 Time: N/S

L/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	5

end of repo

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-8

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.57 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.0		Unfiltered	
	Specific conductance	"	120.1	510	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0924
Order Number: P18897
Order Date: 03/16/89
Sampled By: TJZ/DWL
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PN12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitt

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0924-1	GM-8	SILVER	PPM	BDL	0.0001
89-0924-2	GM-14	SILVER	PPM	BDL	0.0001
89-0924-3	RINSATE-1	SILVER	PPM	0.0002	0.0001
89-0924-4	FIELD BLANK-1	SILVER	PPM	BDL	0.0001
89-0924-1	GM-8	ARSENIC	PPM	0.004	0.001
89-0924-2	GM-14	ARSENIC	PPM	BDL	0.001
89-0924-3	RINSATE-1	ARSENIC	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	ARSENIC	PPM	BDL	0.001
89-0924-1	GM-8	BARIUM	PPM	0.08	0.02
89-0924-2	GM-14	BARIUM	PPM	0.03	0.02
89-0924-3	RINSATE-1	BARIUM	PPM	BDL	0.02
89-0924-4	FIELD BLANK-1	BARIUM	PPM	BDL	0.02
89-0924-1	GM-8	CADMIUM	PPM	0.0030	0.0001
89-0924-2	GM-14	CADMIUM	PPM	0.0002	0.0001
89-0924-3	RINSATE-1	CADMIUM	PPM	BDL	0.0001
89-0924-4	FIELD BLANK-1	CADMIUM	PPM	BDL	0.0001
89-0924-1	GM-8	CHLORIDE	PPM	32	1
89-0924-2	GM-14	CHLORIDE	PPM	244	1
89-0924-3	RINSATE-1	CHLORIDE	PPM	BDL	1
89-0924-4	FIELD BLANK-1	CHLORIDE	PPM	BDL	1
89-0924-1	GM-8	CHROMIUM	PPM	0.03	0.01
89-0924-2	GM-14	CHROMIUM	PPM	BDL	0.01
89-0924-3	RINSATE-1	CHROMIUM	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	CHROMIUM	PPM	BDL	0.01
89-0924-1	GM-8	CHROMIUM,HEXAVALENT	PPM	BDL	0.05
89-0924-2	GM-14	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-3	RINSATE-1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-1	GM-8	COPPER	PPM	BDL	0.01
89-0924-2	GM-14	COPPER	PPM	BDL	0.01
89-0924-3	RINSATE-1	COPPER	PPM	BDL	0.01

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Meth
Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and
Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detect: Limit
89-0924-4	FIELD BLANK-1	COPPER	PPM	BDL	0.01
89-0924-1	GM-8	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-2	GM-14	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-3	RINSATE-1	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-4	FIELD BLANK-1	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-1	GM-8	IRON	PPM	21	0.02
89-0924-2	GM-14	IRON	PPM	0.05	0.02
89-0924-3	RINSATE-1	IRON	PPM	BDL	0.02
89-0924-4	FIELD BLANK-1	IRON	PPM	BDL	0.02
89-0924-1	GM-8	MERCURY	PPM	BDL	0.000
89-0924-2	GM-14	MERCURY	PPM	BDL	0.000
89-0924-3	RINSATE-1	MERCURY	PPM	BDL	0.00[illegible]
89-0924-4	FIELD BLANK-1	MERCURY	PPM	BDL	0.00[illegible]
89-0924-1	GM-8	MANGANESE	PPM	0.10	0.01
89-0924-2	GM-14	MANGANESE	PPM	0.10	0.01
89-0924-3	RINSATE-1	MANGANESE	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	MANGANESE	PPM	BDL	0.01
89-0924-1	GM-8	SODIUM	PPM	6.3	0.10
89-0924-2	GM-14	SODIUM	PPM	200	0.10
89-0924-3	RINSATE-1	SODIUM	PPM	BDL	0.10
89-0924-4	FIELD BLANK-1	SODIUM	PPM	BDL	0.10
89-0924-1	GM-8	NICKEL	PPM	BDL	0.05
89-0924-2	GM-14	NICKEL	PPM	BDL	0.05
89-0924-3	RINSATE-1	NICKEL	PPM	BDL	0.05
89-0924-4	FIELD BLANK-1	NICKEL	PPM	BDL	0.05
89-0924-1	GM-8	LEAD	PPM	BDL	0.005
89-0924-2	GM-14	LEAD	PPM	BDL	0.010
89-0924-3	RINSATE-1	LEAD	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	LEAD	PPM	BDL	0.001
89-0924-1	GM-8	ANTIMONY	PPM	BDL	0.05
89-0924-2	GM-14	ANTIMONY	PPM	BDL	0.05
89-0924-3	RINSATE-1	ANTIMONY	PPM	BDL	0.05
89-0924-4	FIELD BLANK-1	ANTIMONY	PPM	BDL	0.05
89-0924-1	GM-8	SELENIUM	PPM	BDL	0.001
89-0924-2	GM-14	SELENIUM	PPM	BDL	0.001
89-0924-3	RINSATE-1	SELENIUM	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	SELENIUM	PPM	BDL	0.001
89-0924-1	GM-8	SULFATE	PPM	58	1.0

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0924-2	GM-14	SULFATE	PPM	151	1.0
89-0924-3	RINSATE-1	SULFATE	PPM	BDL	1.0
89-0924-4	FIELD BLANK-1	SULFATE	PPM	BDL	1.0
89-0924-1	GM-8	THALLIUM	PPM	BDL	0.1
89-0924-2	GM-14	THALLIUM	PPM	BDL	0.1
89-0924-3	RINSATE-1	THALLIUM	PPM	BDL	0.1
89-0924-4	FIELD BLANK-1	THALLIUM	PPM	BDL	0.1
89-0924-1	GM-8	ZINC	PPM	0.06	0.01
89-0924-2	GM-14	ZINC	PPM	0.04	0.01
89-0924-3	RINSATE-1	ZINC	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	ZINC	PPM	BDL	0.01
89-0924-1	GM-8	ALKYLATED BENZENE	PPB	BDL	10
89-0924-2	GM-14	ALKYLATED BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	ALKYLATED BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	ALKYLATED BENZENE	PPB	BDL	10
89-0924-1	GM-8	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-2	GM-14	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-3	RINSATE-1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-4	FIELD BLANK-1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-1	GM-8	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-2	GM-14	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-4	FIELD BLANK-1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-1	GM-8	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-2	GM-14	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-3	RINSATE-1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-1	GM-8	METHYL ETHYL KETONE	PPB	21	10
89-0924-2	GM-14	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-1	GM-8	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-2	GM-14	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-1	GM-8	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-2	GM-14	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL ETHYL PHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0924-4	FIELD BLANK-1	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-1	GM-8	METHYL NAPTHALENE	PPB	BDL	10
89-0924-2	GM-14	METHYL NAPTHALENE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL NAPTHALENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL NAPTHALENE	PPB	BDL	10
89-0924-1	GM-8	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-2	GM-14	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-1	GM-8	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-2	GM-14	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-1	GM-8	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-2	GM-14	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TRIMETHYL BENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

ID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	18	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	28	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	392	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	42	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER-
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

I/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	452	10
1,3-DICHLOROBENZENE	PPB	328	10
1,4-DICHLOROBENZENE	PPB	424	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: GM-8 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

E /8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	22	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-8 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

E /BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	452	10
1,3-DICHLOROBENZENE	PPB	328	10
1,4-DICHLOROBENZENE	PPB	424	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-8 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

?/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	22	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

VOL/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	3	1
CHLOROETHANE	PPB	17	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	437	5
1,3-DICHLOROBENZENE	PPB	437	5
1,4-DICHLOROBENZENE	PPB	360	5
1,1-DICHLOROETHANE	PPB	1200	500
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	125	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	138	3
TOLUENE	PPB	27	1
1,1,1-TRICHLOROETHANE	PPB	1200	500
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	56	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	7	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

)L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	21	10
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	3	1
CHLOROETHANE	PPB	17	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	1200	500
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	125	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: GM-8 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-8 Sample Date: 03/16/89 Time: N/S

L/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	138	3
TOLUENE	PPB	27	1
1,1,1-TRICHLOROETHANE	PPB	1200	500
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	56	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	7	1
TOTAL XYLENES	PPB	33	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/15/89

Monitoring Well # GM-9

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.47 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.69		Unfiltered	
	Specific conductance	"	120.1	530	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0897
Order Number: P18864
Order Date: 03/16/89
Sampled By: DWL/TJZ
Sample Date: 03/15/89
Sample Time: N/S

Project Number: TF0290PN12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitt

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0897-1	GM-9	SILVER	PPM	0.0001	0.000
89-0897-2	DUPLICATE 1	SILVER	PPM	BDL	0.000
89-0897-1	GM-9	ARSENIC	PPM	BDL	0.001
89-0897-2	DUPLICATE 1	ARSENIC	PPM	BDL	0.001
89-0897-1	GM-9	BARIUM	PPM	BDL	0.02
89-0897-2	DUPLICATE 1	BARIUM	PPM	BDL	0.02
89-0897-1	GM-9	CADMIUM	PPM	0.0002	0.000
89-0897-2	DUPLICATE 1	CADMIUM	PPM	0.0002	0.000
89-0897-1	GM-9	CHLORIDE	PPM	13	1
89-0897-2	DUPLICATE 1	CHLORIDE	PPM	14	1
89-0897-1	GM-9	CHROMIUM	PPM	0.01	0.01
89-0897-2	DUPLICATE 1	CHROMIUM	PPM	BDL	0.01
89-0897-1	GM-9	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0897-2	DUPLICATE 1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0897-1	GM-9	COPPER	PPM	BDL	0.01
89-0897-2	DUPLICATE 1	COPPER	PPM	BDL	0.01
89-0897-1	GM-9	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0897-2	DUPLICATE 1	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0897-1	GM-9	IRON	PPM	3.7	0.02
89-0897-2	DUPLICATE 1	IRON	PPM	3.8	0.02
89-0897-1	GM-9	MERCURY	PPM	BDL	0.000
89-0897-2	DUPLICATE 1	MERCURY	PPM	BDL	0.000
89-0897-1	GM-9	MANGANESE	PPM	0.09	0.01
89-0897-2	DUPLICATE 1	MANGANESE	PPM	0.08	0.01
89-0897-1	GM-9	SODIUM	PPM	6.3	0.10
89-0897-2	DUPLICATE 1	SODIUM	PPM	5.8	0.10
89-0897-1	GM-9	NICKEL	PPM	BDL	0.05
89-0897-2	DUPLICATE 1	NICKEL	PPM	BDL	0.05
89-0897-1	GM-9	LEAD	PPM	BDL	0.005
89-0897-2	DUPLICATE 1	LEAD	PPM	BDL	0.005
89-0897-1	GM-9	ANTIMONY	PPM	BDL	0.05

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Met Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/15/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0897-2	DUPLICATE 1	ANTIMONY	PPM	BDL	0.05
89-0897-1	GM-9	SELENIUM	PPM	BDL	0.001
89-0897-2	DUPLICATE 1	SELENIUM	PPM	BDL	0.001
89-0897-1	GM-9	SULFATE	PPM	170	1.0
89-0897-2	DUPLICATE 1	SULFATE	PPM	170	1.0
89-0897-1	GM-9	THALLIUM	PPM	BDL	0.1
89-0897-2	DUPLICATE 1	THALLIUM	PPM	BDL	0.1
89-0897-1	GM-9	ZINC	PPM	0.02	0.01
89-0897-2	DUPLICATE 1	ZINC	PPM	BDL	0.01
89-0897-1	GM-9	ALKYLATED BENZENE	PPB	BDL	10
89-0897-2	DUPLICATE 1	ALKYLATED BENZENE	PPB	BDL	10
89-0897-1	GM-9	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0897-2	DUPLICATE 1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0897-1	GM-9	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0897-2	DUPLICATE 1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0897-1	GM-9	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0897-2	DUPLICATE 1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0897-1	GM-9	METHYL ETHYL KETONE	PPB	BDL	10
89-0897-2	DUPLICATE 1	METHYL ETHYL KETONE	PPB	BDL	10
89-0897-1	GM-9	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0897-2	DUPLICATE 1	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0897-1	GM-9	METHYL ETHYL PHENOL	PPB	BDL	10
89-0897-2	DUPLICATE 1	METHYL ETHYL PHENOL	PPB	BDL	10
89-0897-1	GW-9	METHYL NAPTHALENE	PPB	BDL	10
89-0897-2	DUPLICATE 1	METHYL NAPTHALENE	PPB	BDL	10
89-0897-1	GM-9	TETRAMETHYL BENZENE	PPB	BDL	10
89-0897-2	DUPLICATE 1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0897-1	GM-9	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0897-2	DUPLICATE 1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0897-1	GM-9	TRIMETHYL BENZENE	PPB	BDL	10
89-0897-2	DUPLICATE 1	TRIMETHYL BENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

A ID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: GM-9 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

I/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-9 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

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1 ?/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-9 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

'/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER-
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

VOL/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	5	5
1,4-DICHLOROBENZENE	PPB	7	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	2	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: GM-9 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER-
07001

Lab I.D.#: 89-0897-1
Order Date: 03/16/89
Sampled By: DWL/TJZ

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-9 Sample Date: 03/15/89 Time: N/S

)L/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	2	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-10

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater -- G-2

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

Ground Water Elevation (above MSL) 0.58 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.5		Unfiltered	
	Specific conductance	"	120.1	700	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0921
Order Number: P18896
Order Date: 03/16/89
Sampled By: TJZ/DWL
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PNB12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitt

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0921-1	GM-10	SILVER	PPM	BDL	0.0001
89-0921-2	GM-11	SILVER	PPM	BDL	0.0001
89-0921-3	GM-13	SILVER	PPM	BDL	0.0001
89-0921-1	GM-10	ARSENIC	PPM	BDL	0.001
89-0921-2	GM-11	ARSENIC	PPM	BDL	0.001
89-0921-3	GM-13	ARSENIC	PPM	BDL	0.001
89-0921-1	GM-10	BARIUM	PPM	0.09	0.02
89-0921-2	GM-11	BARIUM	PPM	BDL	0.02
89-0921-3	GM-13	BARIUM	PPM	BDL	0.02
89-0921-1	GM-10	CADMIUM	PPM	BDL	0.0001
89-0921-2	GM-11	CADMIUM	PPM	BDL	0.0001
89-0921-3	GM-13	CADMIUM	PPM	0.0001	0.0001
89-0921-1	GM-10	CHLORIDE	PPM	56	1
89-0921-2	GM-11	CHLORIDE	PPM	25	1
89-0921-3	GM-13	CHLORIDE	PPM	26	1
89-0921-1	GM-10	CHROMIUM	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM	PPM	BDL	0.01
89-0921-1	GM-10	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-1	GM-10	COPPER	PPM	BDL	0.01
89-0921-2	GM-11	COPPER	PPM	BDL	0.01
89-0921-3	GM-13	COPPER	PPM	BDL	0.01
89-0921-1	GM-10	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-2	GM-11	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-3	GM-13	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-1	GM-10	IRON	PPM	0.15	0.02
89-0921-2	GM-11	IRON	PPM	0.10	0.02
89-0921-3	GM-13	IRON	PPM	0.33	0.02
89-0921-1	GM-10	MERCURY	PPM	BDL	0.000

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Metl
Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detect Limi
89-0921-2	GM-11	MERCURY	PPM	BDL	0.000
89-0921-3	GM-13	MERCURY	PPM	BDL	0.000
89-0921-1	GM-10	MANGANESE	PPM	0.12	0.01
89-0921-2	GM-11	MANGANESE	PPM	0.02	0.01
89-0921-3	GM-13	MANGANESE	PPM	0.03	0.01
89-0921-1	GM-10	SODIUM	PPM	60	0.10
89-0921-2	GM-11	SODIUM	PPM	23	0.10
89-0921-3	GM-13	SODIUM	PPM	20	0.10
89-0921-1	GM-10	NICKEL	PPM	BDL	0.05
89-0921-2	GM-11	NICKEL	PPM	BDL	0.05
89-0921-3	GM-13	NICKEL	PPM	BDL	0.05
89-0921-1	GM-10	LEAD	PPM	BDL	0.005
89-0921-2	GM-11	LEAD	PPM	BDL	0.00[illegible]
89-0921-3	GM-13	LEAD	PPM	BDL	0.005
89-0921-1	GM-10	ANTIMONY	PPM	BDL	0.05
89-0921-2	GM-11	ANTIMONY	PPM	BDL	0.05
89-0921-3	GM-13	ANTIMONY	PPM	BDL	0.05
89-0921-1	GM-10	SELENIUM	PPM	BDL	0.001
89-0921-2	GM-11	SELENIUM	PPM	BDL	0.001
89-0921-3	GM-13	SELENIUM	PPM	BDL	0.001
89-0921-1	GM-10	SULFATE	PPM	136	1.0
89-0921-2	GM-11	SULFATE	PPM	12	1.0
89-0921-3	GM-13	SULFATE	PPM	38	1.0
89-0921-1	GM-10	THALLIUM	PPM	BDL	0.1
89-0921-2	GM-11	THALLIUM	PPM	BDL	0.1
89-0921-3	GM-13	THALLIUM	PPM	BDL	0.1
89-0921-1	GM-10	ZINC	PPM	0.02	0.01
89-0921-2	GM-11	ZINC	PPM	0.04	0.01
89-0921-3	GM-13	ZINC	PPM	BDL	0.01
89-0921-1	GM-10	ALKYLATED BENZENE	PPB	BDL	10
89-0921-2	GM-11	ALKYLATED BENZENE	PPB	BDL	10
89-0921-3	GM-13	ALKYLATED BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	ALKYLATED BENZENE	PPB	BDL	10
89-0921-1	GM-10	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-2	GM-11	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-3	GM-13	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-4	PLI TRIP BLANK	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-1	GM-10	DIMETHYL ETHYL PHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detect Limi
89-0921-2	GM-11	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GM-10	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-2	GM-11	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-3	GM-13	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-1	GM-10	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-2	GM-11	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-3	GM-13	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GW-10	METHYL NAPTHALENE	PPB	BDL	10
89-0921-2	GW-11	METHYL NAPTHALENE	PPB	BDL	10
89-0921-3	GW-13	METHYL NAPTHALENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL NAPTHALENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-1	GM-10	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TRIMETHYL BENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

:ID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

N/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	11	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	10	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: GM-10 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-10 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer LABORATORY, INC.
11 EAST OLIVE ROAD PENSACOLA, FLORIDA 32514
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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

E /8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer LABORATORY, INC.
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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	11	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	10	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-10 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer
LABORATORY, INC.
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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

?/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

DL/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	8	5
1,3-DICHLOROBENZENE	PPB	8	5
1,4-DICHLOROBENZENE	PPB	13	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

)L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	71	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: GM-10 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-1
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-10 Sample Date: 03/16/89 Time: N/S

)L/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-11

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 1.3 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.10		Unfiltered	
	Specific conductance	"	120.1	280	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0921
Order Number: P18896
Order Date: 03/16/89
Sampled By: TJZ/DWL
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PNB12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitt

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0921-1	GM-10	SILVER	PPM	BDL	0.0001
89-0921-2	GM-11	SILVER	PPM	BDL	0.0001
89-0921-3	GM-13	SILVER	PPM	BDL	0.0001
89-0921-1	GM-10	ARSENIC	PPM	BDL	0.001
89-0921-2	GM-11	ARSENIC	PPM	BDL	0.001
89-0921-3	GM-13	ARSENIC	PPM	BDL	0.001
89-0921-1	GM-10	BARIUM	PPM	0.09	0.02
89-0921-2	GM-11	BARIUM	PPM	BDL	0.02
89-0921-3	GM-13	BARIUM	PPM	BDL	0.02
89-0921-1	GM-10	CADMIUM	PPM	BDL	0.000
89-0921-2	GM-11	CADMIUM	PPM	BDL	0.000
89-0921-3	GM-13	CADMIUM	PPM	0.0001	0.000
89-0921-1	GM-10	CHLORIDE	PPM	56	1
89-0921-2	GM-11	CHLORIDE	PPM	25	1
89-0921-3	GM-13	CHLORIDE	PPM	26	1
89-0921-1	GM-10	CHROMIUM	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM	PPM	BDL	0.01
89-0921-1	GM-10	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-1	GM-10	COPPER	PPM	BDL	0.01
89-0921-2	GM-11	COPPER	PPM	BDL	0.01
89-0921-3	GM-13	COPPER	PPM	BDL	0.01
89-0921-1	GM-10	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-2	GM-11	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-3	GM-13	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-1	GM-10	IRON	PPM	0.15	0.02
89-0921-2	GM-11	IRON	PPM	0.10	0.02
89-0921-3	GM-13	IRON	PPM	0.33	0.02
89-0921-1	GM-10	MERCURY	PPM	BDL	0.000

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Met Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer
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PHONE (904) 474-1001

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0921-2	GM-11	MERCURY	PPM	BDL	0.0001
89-0921-3	GM-13	MERCURY	PPM	BDL	0.0001
89-0921-1	GM-10	MANGANESE	PPM	0.12	0.01
89-0921-2	GM-11	MANGANESE	PPM	0.02	0.01
89-0921-3	GM-13	MANGANESE	PPM	0.03	0.01
89-0921-1	GM-10	SODIUM	PPM	60	0.10
89-0921-2	GM-11	SODIUM	PPM	23	0.10
89-0921-3	GM-13	SODIUM	PPM	20	0.10
[illegible]-0921-1	GM-10	NICKEL	PPM	BDL	0.05
[illegible]-0921-2	GM-11	NICKEL	PPM	BDL	0.05
89-0921-3	GM-13	NICKEL	PPM	BDL	0.05
89-0921-1	GM-10	LEAD	PPM	BDL	0.005
89-0921-2	GM-11	LEAD	PPM	BDL	0.005
89-0921-3	GM-13	LEAD	PPM	BDL	0.005
89-0921-1	GM-10	ANTIMONY	PPM	BDL	0.05
89-0921-2	GM-11	ANTIMONY	PPM	BDL	0.05
89-0921-3	GM-13	ANTIMONY	PPM	BDL	0.05
89-0921-1	GM-10	SELENIUM	PPM	BDL	0.001
89-0921-2	GM-11	SELENIUM	PPM	BDL	0.001
89-0921-3	GM-13	SELENIUM	PPM	BDL	0.001
89-0921-1	GM-10	SULFATE	PPM	136	1.0
89-0921-2	GM-11	SULFATE	PPM	12	1.0
89-0921-3	GM-13	SULFATE	PPM	38	1.0
89-0921-1	GM-10	THALLIUM	PPM	BDL	0.1
89-0921-2	GM-11	THALLIUM	PPM	BDL	0.1
89-0921-3	GM-13	THALLIUM	PPM	BDL	0.1
89-0921-1	GM-10	ZINC	PPM	0.02	0.01
89-0921-2	GM-11	ZINC	PPM	0.04	0.01
89-0921-3	GM-13	ZINC	PPM	BDL	0.01
89-0921-1	GM-10	ALKYLATED BENZENE	PPB	BDL	10
89-0921-2	GM-11	ALKYLATED BENZENE	PPB	BDL	10
89-0921-3	GM-13	ALKYLATED BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	ALKYLATED BENZENE	PPB	BDL	10
89-0921-1	GM-10	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-2	GM-11	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-3	GM-13	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
[illegible]-0921-4	PLI TRIP BLANK	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
[illegible]9-0921-1	GM-10	DIMETHYL ETHYL PHENOL	PPB	BDL	10

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detecti Limit
89-0921-2	GM-11	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GM-10	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-2	GM-11	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-3	GM-13	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-1	GM-10	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-2	GM-11	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-3	GM-13	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GW-10	METHYL NAPTHALENE	PPB	BDL	10
89-0921-2	GW-11	METHYL NAPTHALENE	PPB	BDL	10
89-0921-3	GW-13	METHYL NAPTHALENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL NAPTHALENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-1	GM-10	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TRIMETHYL BENZENE	PPB	BDL	10

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Client: GERAGHTY & MILLER
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Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

ACID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

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PHONE (904) 474-1001

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

PM/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: GM-11

Test Parameters continued on next page

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Client: GERAGHTY & MILLER
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Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

BN/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-11 Test Parameters continued on next page

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Client: GERAGHTY & MILLER
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Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

BN/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

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Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

2/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-11 Test Parameters continued on next page

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Client: GERAGHTY & MILLER
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Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

'/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
ENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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PHONE (904) 474-1001

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
RBON DISULFIDE	PPB	BDL	5
RBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

ample ID.: GM-11 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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PHONE (904) 474-1001

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-11 Sample Date: 03/16/89 Time: N/S

/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TAL XYLENES	PPB	BDL	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/15/89

ıitoring Well # GM-12R

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 1.33 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.5		Unfiltered	
	Specific conductance	"	120.1	500	umhos/ cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

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

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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0898
Order Number: P18878
Order Date: 03/16/89
Sampled By: D.W.L.
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PN12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0898-1	GM-12R	SILVER	PPM	0.0006	0.0001
89-0898-1	GM-12R	ARSENIC	PPM	BDL	0.001
89-0898-1	GM-12R	BARIUM	PPM	0.06	0.02
89-0898-1	GM-12R	CADMIUM	PPM	0.0050	0.0001
89-0898-1	GM-12R	CHLORIDE	PPM	11	1
89-0898-1	GM-12R	CHROMIUM	PPM	BDL	0.01
89-0898-1	GM-12R	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0898-1	GM-12R	COPPER	PPM	BDL	0.01
89-0898-1	GM-12R	CYANIDE,COMPLEX	PPM	0.009	0.005
89-0898-1	GM-12R	IRON	PPM	0.03	0.02
89-0898-1	GM-12R	MERCURY	PPM	BDL	0.0001
89-0898-1	GM-12R	MANGANESE	PPM	0.14	0.01
89-0898-1	GM-12R	SODIUM	PPM	12	0.10
89-0898-1	GM-12R	NICKEL	PPM	BDL	0.05
89-0898-1	GM-12R	LEAD	PPM	BDL	0.005
89-0898-1	GM-12R	ANTIMONY	PPM	0.08	0.05
89-0898-1	GM-12R	SELENIUM	PPM	BDL	0.001
89-0898-1	GM-12R	SULFATE	PPM	39	1.0
89-0898-1	GM-12R	THALLIUM	PPM	BDL	0.1
89-0898-1	GM-12R	ZINC	PPM	BDL	0.01
89-0898-1	GM-12R	ALKYLATED BENZENE	PPB	BDL	10
89-0898-1	GM-12R	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0898-1	GM-12R	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0898-1	GM-12R	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0898-1	GM-12R	METHYL ETHYL KETONE	PPB	BDL	10
89-0898-1	GM-12R	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0898-1	GM-12R	METHYL ETHYL PHENOL	PPB	BDL	10
89-0898-1	GM-12R	METHYL NAPTHALENE	PPB	BDL	10
89-0898-1	GM-12R	TETRAMETHYL BENZENE	PPB	BDL	10
89-0898-1	GM-12R	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0898-1	GM-12R	TRIMETHYL BENZENE	PPB	BDL	10

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowen

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

ID/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
[illegible]METHYLPHENOL	PPB	BDL	10
4[illegible]METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

Sample ID.: GM-12R Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-12R Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

'/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

ımple ID.: GM-12R Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
PYRENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

L/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

:lient: GERAGHTY & MILLER
)7001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	51	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

ample ID.: GM-12R Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0898-1
Order Date: 03/16/89
Sampled By: D.W.L.

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-12R Sample Date: 03/16/89 Time: N/S

/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	5

end of report

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-13

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.89 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.20		Unfiltered	
	Specific conductance	"	120.1	310	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0921
Order Number: P18896
Order Date: 03/16/89
Sampled By: TJZ/DWL
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PNB12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0921-1	GM-10	SILVER	PPM	BDL	0.0001
89-0921-2	GM-11	SILVER	PPM	BDL	0.0001
89-0921-3	GM-13	SILVER	PPM	BDL	0.0001
89-0921-1	GM-10	ARSENIC	PPM	BDL	0.001
89-0921-2	GM-11	ARSENIC	PPM	BDL	0.001
89-0921-3	GM-13	ARSENIC	PPM	BDL	0.001
89-0921-1	GM-10	BARIUM	PPM	0.09	0.02
89-0921-2	GM-11	BARIUM	PPM	BDL	0.02
89-0921-3	GM-13	BARIUM	PPM	BDL	0.02
89-0921-1	GM-10	CADMIUM	PPM	BDL	0.0001
89-0921-2	GM-11	CADMIUM	PPM	BDL	0.0001
89-0921-3	GM-13	CADMIUM	PPM	0.0001	0.0001
89-0921-1	GM-10	CHLORIDE	PPM	56	1
89-0921-2	GM-11	CHLORIDE	PPM	25	1
89-0921-3	GM-13	CHLORIDE	PPM	26	1
89-0921-1	GM-10	CHROMIUM	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM	PPM	BDL	0.01
89-0921-1	GM-10	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-2	GM-11	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-3	GM-13	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0921-1	GM-10	COPPER	PPM	BDL	0.01
89-0921-2	GM-11	COPPER	PPM	BDL	0.01
89-0921-3	GM-13	COPPER	PPM	BDL	0.01
89-0921-1	GM-10	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-2	GM-11	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-3	GM-13	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0921-1	GM-10	IRON	PPM	0.15	0.02
89-0921-2	GM-11	IRON	PPM	0.10	0.02
89-0921-3	GM-13	IRON	PPM	0.33	0.02
89-0921-1	GM-10	MERCURY	PPM	BDL	0.0001

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Methc
Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0921-2	GM-11	MERCURY	PPM	BDL	0.0001
89-0921-3	GM-13	MERCURY	PPM	BDL	0.0001
89-0921-1	GM-10	MANGANESE	PPM	0.12	0.01
89-0921-2	GM-11	MANGANESE	PPM	0.02	0.01
89-0921-3	GM-13	MANGANESE	PPM	0.03	0.01
89-0921-1	GM-10	SODIUM	PPM	60	0.10
89-0921-2	GM-11	SODIUM	PPM	23	0.10
89-0921-3	GM-13	SODIUM	PPM	20	0.10
89-0921-1	GM-10	NICKEL	PPM	BDL	0.05
89-0921-2	GM-11	NICKEL	PPM	BDL	0.05
89-0921-3	GM-13	NICKEL	PPM	BDL	0.05
89-0921-1	GM-10	LEAD	PPM	BDL	0.005
89-0921-2	GM-11	LEAD	PPM	BDL	0.005
89-0921-3	GM-13	LEAD	PPM	BDL	0.005
89-0921-1	GM-10	ANTIMONY	PPM	BDL	0.05
89-0921-2	GM-11	ANTIMONY	PPM	BDL	0.05
89-0921-3	GM-13	ANTIMONY	PPM	BDL	0.05
89-0921-1	GM-10	SELENIUM	PPM	BDL	0.001
89-0921-2	GM-11	SELENIUM	PPM	BDL	0.001
89-0921-3	GM-13	SELENIUM	PPM	BDL	0.001
89-0921-1	GM-10	SULFATE	PPM	136	1.0
89-0921-2	GM-11	SULFATE	PPM	12	1.0
89-0921-3	GM-13	SULFATE	PPM	38	1.0
89-0921-1	GM-10	THALLIUM	PPM	BDL	0.1
89-0921-2	GM-11	THALLIUM	PPM	BDL	0.1
89-0921-3	GM-13	THALLIUM	PPM	BDL	0.1
89-0921-1	GM-10	ZINC	PPM	0.02	0.01
89-0921-2	GM-11	ZINC	PPM	0.04	0.01
89-0921-3	GM-13	ZINC	PPM	BDL	0.01
89-0921-1	GM-10	ALKYLATED BENZENE	PPB	BDL	10
89-0921-2	GM-11	ALKYLATED BENZENE	PPB	BDL	10
89-0921-3	GM-13	ALKYLATED BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	ALKYLATED BENZENE	PPB	BDL	10
89-0921-1	GM-10	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-2	GM-11	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-3	GM-13	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-4	PLI TRIP BLANK	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0921-1	GM-10	DIMETHYL ETHYL PHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0921-2	GM-11	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GM-10	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-2	GM-11	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-3	GM-13	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL KETONE	PPB	BDL	10
89-0921-1	GM-10	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-2	GM-11	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-3	GM-13	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0921-1	GM-10	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-2	GM-11	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-3	GM-13	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL ETHYL PHENOL	PPB	BDL	10
89-0921-1	GW-10	METHYL NAPTHALENE	PPB	BDL	10
89-0921-2	GW-11	METHYL NAPTHALENE	PPB	BDL	10
89-0921-3	GW-13	METHYL NAPTHALENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	METHYL NAPTHALENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYL BENZENE	PPB	BDL	10
89-0921-1	GM-10	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-2	GM-11	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-3	GM-13	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0921-1	GM-10	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-2	GM-11	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-3	GM-13	TRIMETHYL BENZENE	PPB	BDL	10
89-0921-4	PLI TRIP BLANK	TRIMETHYL BENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

D/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # ELD20 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # EB1010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

ample ID.: GM-13 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
7001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-13 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

'/BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
3(2-CHLOROETHOXY)METHANE	PPB	BDL	10
3(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-13 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
RENE	PPB	BDL	10
,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
DIBROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	10
CARBON DISULFIDE	PPB	BDL	5
RBON TETRACHLORIDE	PPB	BDL	3
LOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: GM-13 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB 10 # 81142 • EPA # FL094 • FDER # EL020 • AL LAB 10 # 40150 • NIOSH # 32514-001 • FL ENV # EB1010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0921-3
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-13 Sample Date: 03/16/89 Time: N/S

/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

GMS # 1017F00625

Sample Date 03/16/89

Monitoring Well # GM-14

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

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

Ground Water Elevation (above MSL) 0.51 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.20		Unfiltered	
	Specific conductance	"	120.1	1230	umhos/cm	"	
	Inorganics:	"		See attached	mg/L	"	
	Metals		6010				Nitric Acid
			7060				"
			7131				"
			7421				"
			7470				"
			7740				"
			7761				"
	Cyanide		9010				NaOH
	Chloride		325.3				
	Sulfate		375.4				
	Hex Chromium		7196				
	BN	Teflon Bailer	625	See attached	ug/L	"	
	BNA	"	8270	See attached	ug/L	"	
	VOC	"	624, 8240	See attached	ug/L	"	

*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

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

Client: GERAGHTY & MILLER
07001 3820 NORTHDALE BLVD.
SUITE 200
TAMPA FL 33624-0000

Lab I.D.#: 89-0924
Order Number: P18897
Order Date: 03/16/89
Sampled By: TJZ/DWL
Sample Date: 03/16/89
Sample Time: N/S

Project Number: TF0290PN12
Project Name: NAS WASTEWATER TREATMENT PLANT
Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0924-1	GM-8	SILVER	PPM	BDL	0.0001
89-0924-2	GM-14	SILVER	PPM	BDL	0.0001
89-0924-3	RINSATE-1	SILVER	PPM	0.0002	0.0001
89-0924-4	FIELD BLANK-1	SILVER	PPM	BDL	0.0001
89-0924-1	GM-8	ARSENIC	PPM	0.004	0.001
89-0924-2	GM-14	ARSENIC	PPM	BDL	0.001
89-0924-3	RINSATE-1	ARSENIC	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	ARSENIC	PPM	BDL	0.001
89-0924-1	GM-8	BARIUM	PPM	0.08	0.02
89-0924-2	GM-14	BARIUM	PPM	0.03	0.02
89-0924-3	RINSATE-1	BARIUM	PPM	BDL	0.02
89-0924-4	FIELD BLANK-1	BARIUM	PPM	BDL	0.02
89-0924-1	GM-8	CADMIUM	PPM	0.0030	0.0001
89-0924-2	GM-14	CADMIUM	PPM	0.0002	0.0001
89-0924-3	RINSATE-1	CADMIUM	PPM	BDL	0.0001
89-0924-4	FIELD BLANK-1	CADMIUM	PPM	BDL	0.0001
89-0924-1	GM-8	CHLORIDE	PPM	32	1
89-0924-2	GM-14	CHLORIDE	PPM	244	1
89-0924-3	RINSATE-1	CHLORIDE	PPM	BDL	1
89-0924-4	FIELD BLANK-1	CHLORIDE	PPM	BDL	1
89-0924-1	GM-8	CHROMIUM	PPM	0.03	0.01
89-0924-2	GM-14	CHROMIUM	PPM	BDL	0.01
89-0924-3	RINSATE-1	CHROMIUM	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	CHROMIUM	PPM	BDL	0.01
89-0924-1	GM-8	CHROMIUM,HEXAVALENT	PPM	BDL	0.05
89-0924-2	GM-14	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-3	RINSATE-1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	CHROMIUM,HEXAVALENT	PPM	BDL	0.01
89-0924-1	GM-8	COPPER	PPM	BDL	0.01
89-0924-2	GM-14	COPPER	PPM	BDL	0.01
89-0924-3	RINSATE-1	COPPER	PPM	BDL	0.01

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020 March 1983, SW-846 3rd Edition November 1986 and Federal Register 40 CFR Part 136 7/1/87. BDL = Below Detection Limits.

Approved By : W. F. Bowers

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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PHONE (904) 474-1001

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0924-4	FIELD BLANK-1	COPPER	PPM	BDL	0.01
89-0924-1	GM-8	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-2	GM-14	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-3	RINSATE-1	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-4	FIELD BLANK-1	CYANIDE,COMPLEX	PPM	BDL	0.005
89-0924-1	GM-8	IRON	PPM	21	0.02
89-0924-2	GM-14	IRON	PPM	0.05	0.02
89-0924-3	RINSATE-1	IRON	PPM	BDL	0.02
89-0924-4	FIELD BLANK-1	IRON	PPM	BDL	0.02
89-0924-1	GM-8	MERCURY	PPM	BDL	0.0001
89-0924-2	GM-14	MERCURY	PPM	BDL	0.0001
89-0924-3	RINSATE-1	MERCURY	PPM	BDL	0.0001
89-0924-4	FIELD BLANK-1	MERCURY	PPM	BDL	0.0001
89-0924-1	GM-8	MANGANESE	PPM	0.10	0.01
89-0924-2	GM-14	MANGANESE	PPM	0.10	0.01
89-0924-3	RINSATE-1	MANGANESE	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	MANGANESE	PPM	BDL	0.01
89-0924-1	GM-8	SODIUM	PPM	6.3	0.10
89-0924-2	GM-14	SODIUM	PPM	200	0.10
89-0924-3	RINSATE-1	SODIUM	PPM	BDL	0.10
89-0924-4	FIELD BLANK-1	SODIUM	PPM	BDL	0.10
89-0924-1	GM-8	NICKEL	PPM	BDL	0.05
89-0924-2	GM-14	NICKEL	PPM	BDL	0.05
89-0924-3	RINSATE-1	NICKEL	PPM	BDL	0.05
89-0924-4	FIELD BLANK-1	NICKEL	PPM	BDL	0.05
89-0924-1	GM-8	LEAD	PPM	BDL	0.005
89-0924-2	GM-14	LEAD	PPM	BDL	0.010
89-0924-3	RINSATE-1	LEAD	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	LEAD	PPM	BDL	0.001
89-0924-1	GM-8	ANTIMONY	PPM	BDL	0.05
89-0924-2	GM-14	ANTIMONY	PPM	BDL	0.05
89-0924-3	RINSATE-1	ANTIMONY	PPM	BDL	0.05
89-0924-4	FIELD BLANK-1	ANTIMONY	PPM	BDL	0.05
89-0924-1	GM-8	SELENIUM	PPM	BDL	0.001
89-0924-2	GM-14	SELENIUM	PPM	BDL	0.001
89-0924-3	RINSATE-1	SELENIUM	PPM	BDL	0.001
89-0924-4	FIELD BLANK-1	SELENIUM	PPM	BDL	0.001
89-0924-1	GM-8	SULFATE	PPM	58	1.0

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0924-2	GM-14	SULFATE	PPM	151	1.0
89-0924-3	RINSATE-1	SULFATE	PPM	BDL	1.0
89-0924-4	FIELD BLANK-1	SULFATE	PPM	BDL	1.0
89-0924-1	GM-8	THALLIUM	PPM	BDL	0.1
89-0924-2	GM-14	THALLIUM	PPM	BDL	0.1
89-0924-3	RINSATE-1	THALLIUM	PPM	BDL	0.1
89-0924-4	FIELD BLANK-1	THALLIUM	PPM	BDL	0.1
89-0924-1	GM-8	ZINC	PPM	0.06	0.01
89-0924-2	GM-14	ZINC	PPM	0.04	0.01
89-0924-3	RINSATE-1	ZINC	PPM	BDL	0.01
89-0924-4	FIELD BLANK-1	ZINC	PPM	BDL	0.01
89-0924-1	GM-8	ALKYLATED BENZENE	PPB	BDL	10
89-0924-2	GM-14	ALKYLATED BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	ALKYLATED BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	ALKYLATED BENZENE	PPB	BDL	10
89-0924-1	GM-8	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-2	GM-14	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-3	RINSATE-1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-4	FIELD BLANK-1	BIS(CHLOROMETHYL)ETHER	PPB	BDL	50
89-0924-1	GM-8	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-2	GM-14	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-4	FIELD BLANK-1	DIMETHYL ETHYL PHENOL	PPB	BDL	10
89-0924-1	GM-8	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-2	GM-14	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-3	RINSATE-1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	HYDROXYMETHYLPENTANONE	PPB	BDL	10
89-0924-1	GM-8	METHYL ETHYL KETONE	PPB	21	10
89-0924-2	GM-14	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL ETHYL KETONE	PPB	BDL	10
89-0924-1	GM-8	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-2	GM-14	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL DIHYDRO INDENE	PPB	BDL	10
89-0924-1	GM-8	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-2	GM-14	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL ETHYL PHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 03/16/89 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
89-0924-4	FIELD BLANK-1	METHYL ETHYL PHENOL	PPB	BDL	10
89-0924-1	GM-8	METHYL NAPTHALENE	PPB	BDL	10
89-0924-2	GM-14	METHYL NAPTHALENE	PPB	BDL	10
89-0924-3	RINSATE-1	METHYL NAPTHALENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	METHYL NAPTHALENE	PPB	BDL	10
89-0924-1	GM-8	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-2	GM-14	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TETRAMETHYL BENZENE	PPB	BDL	10
89-0924-1	GM-8	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-2	GM-14	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-3	RINSATE-1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TETRAMETHYLBUTYLPHENOL	PPB	BDL	10
89-0924-1	GM-8	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-2	GM-14	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-3	RINSATE-1	TRIMETHYL BENZENE	PPB	BDL	10
89-0924-4	FIELD BLANK-1	TRIMETHYL BENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

D/8270 ACID EXTRACTABLES - METHOD 8270

Parameter	Units	Result	Detection Limit
BENZOIC ACID	PPB	BDL	50
4-CHLORO-3-METHYLPHENOL	PPB	BDL	10
2-CHLOROPHENOL	PPB	BDL	10
2,4-DICHLOROPHENOL	PPB	BDL	10
2,6-DICHLOROPHENOL	PPB	BDL	10
2,4-DIMETHYLPHENOL	PPB	BDL	10
4,6-DINITRO-2-METHYLPHENOL	PPB	BDL	50
2,4-DINITROPHENOL	PPB	BDL	50
2-METHYLPHENOL	PPB	BDL	10
4-METHYLPHENOL	PPB	BDL	10
2-NITROPHENOL	PPB	BDL	10
4-NITROPHENOL	PPB	BDL	50
PENTACHLOROPHENOL	PPB	BDL	50
PHENOL	PPB	BDL	10
2,3,4,6-TETRACHLOROPHENOL	PPB	BDL	10
2,4,5-TRICHLOROPHENOL	PPB	BDL	50
2,4,6-TRICHLOROPHENOL	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

I/8270 BN EXTRACTABLES METHOD 8270

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ACETOPHENONE	PPB	BDL	10
4-AMINOBIPHENYL	PPB	BDL	10
ANILINE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
BENZO(B)FLUORANTHENE	PPB	BDL	10
BENZO(G,H,I)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
BENZYL ALCOHOL	PPB	BDL	10
BIS(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYL BENZYL PHTHALATE	PPB	BDL	10
4-CHLOROANILINE	PPB	BDL	10
1-CHLORONAPHTHALENE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZ(A,H)ANTHRACENE	PPB	BDL	10
DIBENZ(A,J)ACRIDINE	PPB	BDL	10
DIBENZOFURAN	PPB	BDL	10
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	50
DIETHYLPHTHALATE	PPB	BDL	10
P-DIMETHYLAMINOAZOBENZENE	PPB	BDL	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	PPB	BDL	10
A-,A-DIMETHYLPHENETHYLAMINE	PPB	BDL	10

ample ID.: GM-14 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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

Client: GERAGHTY & MILLER
7001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
DIMETHYLPHTHALATE	PPB	BDL	10
DI-N-BUTYLPHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYLPHTHALATE	PPB	BDL	10
DIPHENYLAMINE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
3-METHYLCHOLANTHRENE	PPB	BDL	10
2-METHYLNAPHTHALENE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
1-NAPHTHYLAMINE	PPB	BDL	10
2-NAPHTHYLAMINE	PPB	BDL	10
2-NITROANILINE	PPB	BDL	10
3-NITROANILINE	PPB	BDL	10
4-NITROANILINE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSO-DI-N-BUTYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
N-NITROSODIPROPYLAMINE	PPB	BDL	10
N-NITROSOPIPERIDINE	PPB	BDL	10
PENTACHLOROBENZENE	PPB	BDL	10
PENTACHLORONITROBENZENE	PPB	BDL	10
PHENACETIN	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
2-PICOLINE	PPB	BDL	10
PRONAMIDE	PPB	BDL	10

Sample ID.: GM-14 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer LABORATORY, INC.
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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

/8270 BN EXTRACTABLES METHOD 8270 continued

Parameter	Units	Result	Detection Limit
PYRENE	PPB	BDL	10
1,2,4,5-TETRACHLOROBENZENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

BASE/625 PP BASE/NEUTRAL EXTRACTABLES

Parameter	Units	Result	Detection Limit
ACENAPHTHENE	PPB	BDL	10
ACENAPHTHYLENE	PPB	BDL	10
ANTHRACENE	PPB	BDL	10
BENZIDINE	PPB	BDL	10
BENZO(A)ANTHRACENE	PPB	BDL	10
BENZO(A)PYRENE	PPB	BDL	10
3,4-BENZOFLUORANTHENE	PPB	BDL	10
BENZO(GHI)PERYLENE	PPB	BDL	10
BENZO(K)FLUORANTHENE	PPB	BDL	10
[illegible]S(2-CHLOROETHOXY)METHANE	PPB	BDL	10
BIS(2-CHLOROETHYL)ETHER	PPB	BDL	10
BIS(2-CHLOROISOPROPYL)ETHER	PPB	BDL	10
BIS(2-ETHYLHEXYL)PHTHALATE	PPB	BDL	10
4-BROMOPHENYL PHENYL ETHER	PPB	BDL	10
BUTYLBENZYL PHTHALATE	PPB	BDL	10
2-CHLORONAPHTHALENE	PPB	BDL	10
4-CHLOROPHENYL PHENYL ETHER	PPB	BDL	10
CHRYSENE	PPB	BDL	10
DIBENZO(A,H)ANTHRACENE	PPB	BDL	25
1,2-DICHLOROBENZENE	PPB	BDL	10
1,3-DICHLOROBENZENE	PPB	BDL	10
1,4-DICHLOROBENZENE	PPB	BDL	10
3,3'-DICHLOROBENZIDINE	PPB	BDL	10
DIETHYL PHTHALATE	PPB	BDL	10
DIMETHYL PHTHALATE	PPB	BDL	10
DI-N-BUTYL PHTHALATE	PPB	BDL	10
2,4-DINITROTOLUENE	PPB	BDL	10
2,6-DINITROTOLUENE	PPB	BDL	10
DI-N-OCTYL PHTHALATE	PPB	BDL	10
1,2-DIPHENYLHYDRAZINE	PPB	BDL	10
FLUORANTHENE	PPB	BDL	10
FLUORENE	PPB	BDL	10
HEXACHLOROBENZENE	PPB	BDL	10
HEXACHLOROBUTADIENE	PPB	BDL	10
HEXACHLOROCYCLOPENTADIENE	PPB	BDL	10

Sample ID.: GM-14 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40130 • NIOSH # 32514-001 • FL ENV # E81010

Pioneer
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Client: GERAGHTY & MILLER
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Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

/BASE/625 PP BASE/NEUTRAL EXTRACTABLES continued

Parameter	Units	Result	Detection Limit
HEXACHLOROETHANE	PPB	BDL	10
INDENO(1,2,3-CD)PYRENE	PPB	BDL	10
ISOPHORONE	PPB	BDL	10
NAPHTHALENE	PPB	BDL	10
NITROBENZENE	PPB	BDL	10
N-NITROSODIMETHYLAMINE	PPB	BDL	10
N-NITROSODI-N-PROPYLAMINE	PPB	BDL	10
N-NITROSODIPHENYLAMINE	PPB	BDL	10
PHENANTHRENE	PPB	BDL	10
ENE	PPB	BDL	10
1,2,4-TRICHLOROBENZENE	PPB	BDL	10

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

/624 VOLATILE METHOD 624

Parameter	Units	Result	Detection Limit
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYLVINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
BROMOCHLOROMETHANE	PPB	BDL	5
1,2-DICHLOROBENZENE	PPB	BDL	5
1,3-DICHLOROBENZENE	PPB	BDL	5
1,4-DICHLOROBENZENE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	3
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
ETHYL BENZENE	PPB	BDL	1
METHYLENE CHLORIDE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	5
VINYL CHLORIDE	PPB	BDL	1

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # EB1010

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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

L/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	5
BROMOFORM	PPB	BDL	5
BROMOMETHANE	PPB	BDL	5
2-BUTANONE (MEK)	PPB	BDL	50
CARBON DISULFIDE	PPB	BDL	5
CARBON TETRACHLORIDE	PPB	BDL	3
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	5
2-CHLOROETHYL VINYL ETHER	PPB	BDL	10
CHLOROFORM	PPB	BDL	5
CHLOROMETHANE	PPB	BDL	5
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	5
1,2-DICHLOROETHANE	PPB	BDL	5
1,1-DICHLOROETHENE	PPB	BDL	5
TRANS-1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	5
CIS-1,3-DICHLOROPROPENE	PPB	BDL	5
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	5
1,4-DICHLORO-2-BUTANE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	50
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	5
4-METHYL-2-PENTANONE	PPB	BDL	50
STYRENE	PPB	BDL	5
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	5

Sample ID.: GM-14 Test Parameters continued on next page

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL094 • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010

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Client: GERAGHTY & MILLER
07001

Lab I.D.#: 89-0924-2
Order Date: 03/16/89
Sampled By: TJZ/DWL

Sample Site: NAS PENSACOLA
Sample Type: GROUNDWATER

Sample ID.: GM-14 Sample Date: 03/16/89 Time: N/S

/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	3
TOLUENE	PPB	BDL	1
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	5
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	10
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	50
VINYL CHLORIDE	PPB	BDL	1
TAL XYLENES	PPB	BDL	5

CERTIFICATION NUMBERS: FL LAB ID # 81142 • EPA # FL09A • FDER # EL020 • AL LAB ID # 40150 • NIOSH # 32514-001 • FL ENV # E81010