



TETRA TECH NUS, INC.

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Document Tracking Number 02JAX0130

June 28, 2002

Project Number N2872

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Wayne Hansel (Code ES24)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order (CTO) Number 0192

Subject: Site Screening Letter Report
Petroleum Contaminated Area 21
Naval Air Station Jacksonville, Jacksonville, Florida

Dear Mr. Hansel:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Site Screening Letter Report for Petroleum Contaminated Area (PCA) 21. This Site Screening Letter Report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) under Contract Task Order (CTO) 0192 for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D0888. The objective of the Site Screening Letter Report is to document results of the field screening activities for soil and groundwater contamination. The field screening activities were performed in general accordance with the Work Plan for Site Screening at Various Petroleum Sites dated August 2001.

Background Information

PCA 21 is the former location of three underground storage tanks (USTs) numbered 197A, 197B, and 197C at Building 197. Building 197 served as a gas station for fleet vehicles. The location of PCA 21, within the boundaries of Naval Air Station (NAS) Jacksonville, is indicated on Figure 1. Tank 197A was a 20,000-gallon UST used for the storage of unleaded gasoline. Tanks 197B and 197C were 10,000-gallon tanks used to store unleaded gasoline and diesel, respectively. The three fiberglass tanks were installed in 1998 and the three tanks previously located at the site were removed. On March 18, 1998, the tanks were removed by the Public Works Center (PWC), and a tank closure assessment report completed. During the UST removal, the tanks were inspected for possible leaks and none were recorded. Twelve organic vapor analyzer (OVA) readings were performed during the tank closure procedures, which indicated no soil contamination outside the tanks. Once the tanks were removed, three permanent groundwater-monitoring wells (MW-01 through MW-03) were installed at the site in the former tank area. Analysis of the water samples collected from the monitoring wells indicated the presence of dissolved petroleum constituents above regulatory criteria. The conclusion of the Tank Closure Assessment by PWC indicated that the contamination appeared to be caused by a failure of the old tank system and not the system removed in 1998. Based on these findings, it was recommended in the Tank Closure Report that further assessment was warranted.

Mr. Wayne Hansel
SOUTHNAVFACENGCOM
June 28, 2002 – Page 2

SOUTHNAVFACENGCOM contracted TtNUS to screen each PCA site for possible soil and groundwater contamination. To accomplish this, TtNUS was to sample the three existing monitoring wells at PCA 21. Figures showing the PCA Site Plans were obtained from the station and were used in the planning documents.

The activities completed by TtNUS and the results are detailed below.

Field Screening Activities

On December 17, 2001, TtNUS representatives mobilized to PCA 21 (Building 197) for the field screening activities. The field screening activities consisted of the sampling of the three permanent monitoring wells at the site. The location of PCA 21, with surrounding features and monitoring well locations, is indicated on Figure 2.

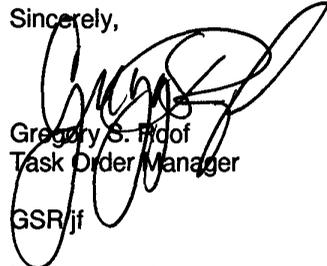
Groundwater Sampling Results

For groundwater sample collection, the three permanent monitoring wells (JAX-21-MW-1s, -2s, and -3s), which were previously installed at the site were sampled. All three wells are approximately 12.5 feet (ft) deep. For groundwater recovery, Teflon[®] tubing was inserted into the well, and the tubing was connected to a peristaltic pump for low-flow purging and sampling. Three to five screen volumes were then pumped from the well and measured with a Horiba U-22 water quality meter to assure stable conditions prior to sample collection. The groundwater sampling was performed in general accordance with the TtNUS Comprehensive Quality Assurance Plan (CompQAP) Number 980038. The groundwater samples were placed on ice; shipped to Accutest laboratories in Orlando, Florida; and analyzed for volatile organic compounds (VOCs) using USEPA Method 8021B, polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8310, total recoverable petroleum hydrocarbons (TRPH) using Florida Petroleum Range Organics (FL-PRO), ethylene dibromide (EDB) using USEPA Method 504.1, and lead using USEPA Method 6010. The groundwater analytical results indicate that no petroleum constituents were detected above the laboratory method detection limit. The complete set of analytical results is presented in Attachment A.

Conclusions and Recommendations

Analysis of the groundwater samples obtained from the three monitoring wells indicates petroleum constituents are not present in PCA 21 groundwater. As a result of these findings, TtNUS recommends that the results of this screening be reviewed by the Florida Department of Environmental Protection (FDEP) and that "No Further Action" be granted for the site.

Sincerely,



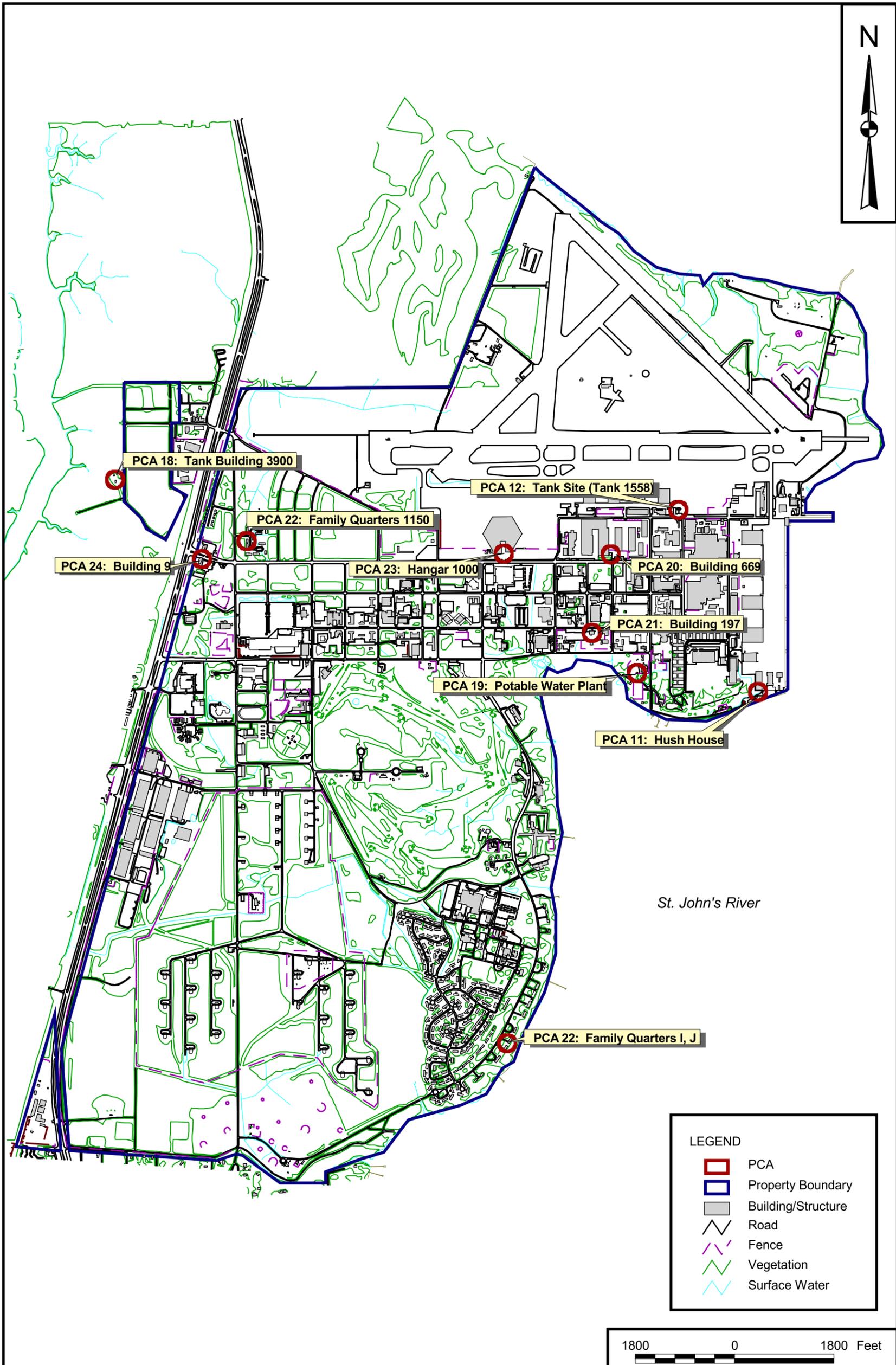
Gregory S. Hood
Task Order Manager

GSR/jf

Enclosures (3)

cc: Jorge Caspary, FDEP (hard copy, CD)
Frank Sigona, NAS Jacksonville (hard copy, CD)
D. Wroblewski (letter only)
M. Perry (unbound copy, CD)
File – CTO 192

FIGURES

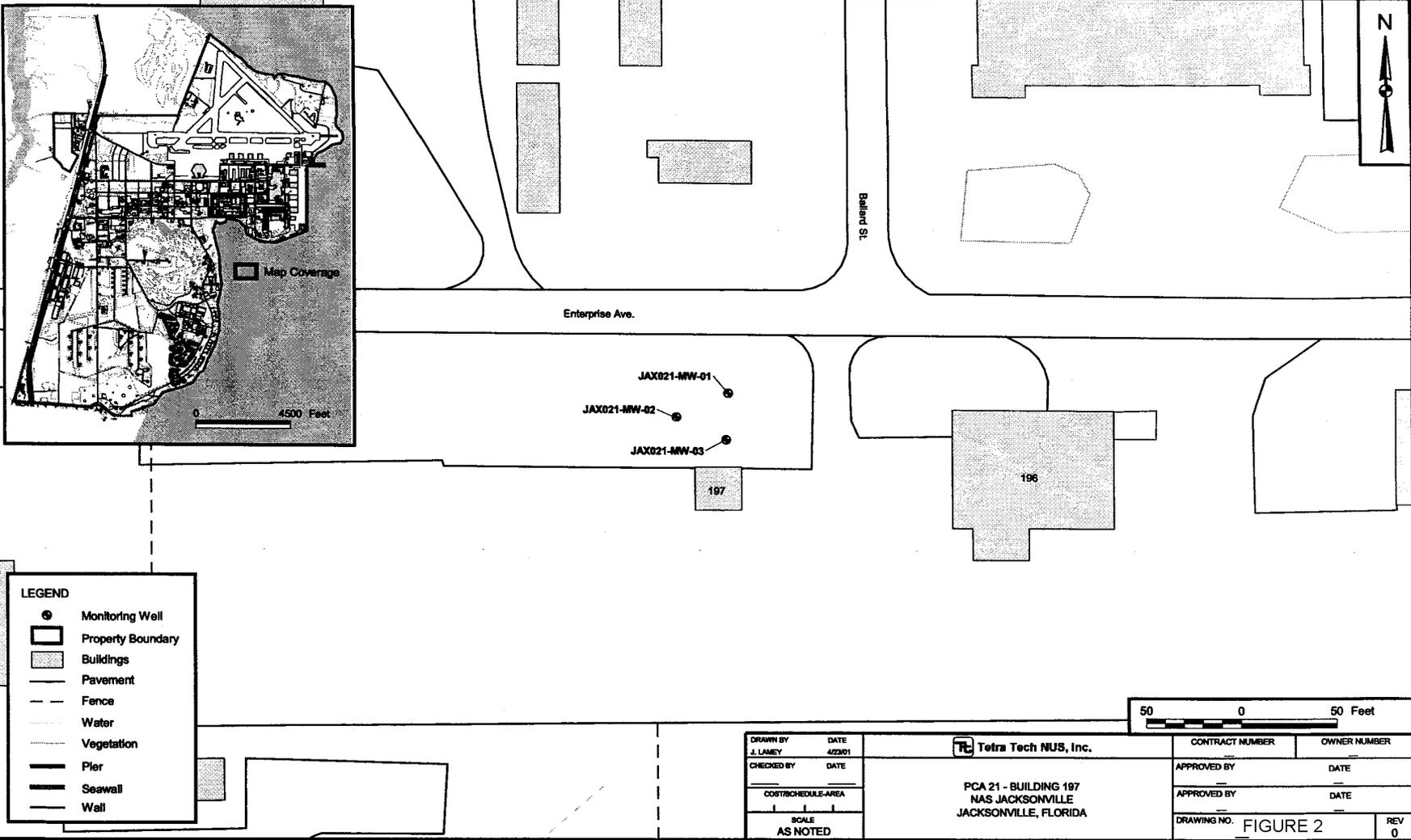


LEGEND

- PCA
- Property Boundary
- Building/Structure
- Road
- Fence
- Vegetation
- Surface Water



DRAWN BY J. LAMEY CHECKED BY COST/SCHEDULE-AREA SCALE AS NOTED	DATE 5/14/02 DATE 	SITE LOCATION MAP PETROLEUM CONTAMINATION ASSESSMENT NAVAL AIR STATION JACKSONVILLE, FLORIDA	CONTRACT NUMBER — APPROVED BY — DATE — APPROVED BY — DATE — DRAWING NO. FIGURE 1 REV 0
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**ATTACHMENT A
ANALYTICAL RESULTS**

CTO192-NAS JACKSONVILLE

WATER DATA

Accutest, NJ

SDG: F11824

SAMPLE NUMBER:

JAX-21-MW1S-01

JAX-21-MW2S-01

JAX-21-MW3S-01

SAMPLE DATE:

12/17/01

12/17/01

12/17/01

//

LABORATORY ID:

F11824-2

F11824-3

F11824-1

QC_TYPE:

NORMAL

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

0.0 %

100.0 %

UNITS:

UG/L

UG/L

UG/L

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE									
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U				
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U				
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U				
1,1-DICHLOROETHANE	1	U		1	U		1	U				
1,1-DICHLOROETHENE	1	U		1	U		1	U				
1,2-DIBROMOETHANE	0.02	U		0.02	U		0.02	U				
1,2-DICHLOROBENZENE	1	U		1	U		1	U				
1,2-DICHLOROETHANE	1	U		1	U		1	U				
1,2-DICHLOROPROPANE	1	U		1	U		1	U				
1,3-DICHLOROBENZENE	1	U		1	U		1	U				
1,4-DICHLOROBENZENE	1	U		1	U		1	U				
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U				
BENZENE	1	U		1	U		1	U				
BROMODICHLOROMETHANE	1	U		1	U		1	U				
BROMOFORM	1	U		1	U		1	U				
BROMOMETHANE	1	U		1	U		1	U				
CARBON TETRACHLORIDE	1	U		1	U		1	U				
CHLOROBENZENE	1	U		1	U		1	U				
CHLORODIBROMOMETHANE	1	U		1	U		1	U				
CHLOROETHANE	1	U		1	U		1	U				
CHLOROFORM	1	U		1	U		1	U				
CHLOROMETHANE	1	U		1	U		1	U				
CIS-1,2-DICHLOROETHENE	1	U		1	U		1	U				
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U				
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U				
ETHYLBENZENE	1	U		1	U		1	U				
METHYL TERT-BUTYL ETHER	1	U		1	U		1	U				
METHYLENE CHLORIDE	5	U		5	U		5	U				
TETRACHLOROETHENE	1	U		1	U		1	U				
TOLUENE	1	U		1	U		1	U				
TOTAL XYLENES	3	U		3	U		3	U				
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U				

CTO192-NAS JACKSONVILLE

WATER DATA

Accutest, NJ

SDG: F11824

SAMPLE NUMBER:	JAX-21-MW1S-01	JAX-21-MW2S-01	JAX-21-MW3S-01	
SAMPLE DATE:	12/17/01	12/17/01	12/17/01	//
LABORATORY ID:	F11824-2	F11824-3	F11824-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U				
TRICHLOROETHENE	1	U		1	U		1	U				
TRICHLOROFLUOROMETHANE	1	U		1	U		1	U				
VINYL CHLORIDE	1	U		1	U		1	U				

CTO192-NAS JACKSONVILLE

WATER DATA

Accutest, NJ

SDG: F11824

SAMPLE NUMBER:

JAX-21-MW1S-01

JAX-21-MW2S-01

JAX-21-MW3S-01

SAMPLE DATE:

12/17/01

12/17/01

12/17/01

//

LABORATORY ID:

F11824-2

F11824-3

F11824-1

QC_TYPE:

NORMAL

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

0.0 %

100.0 %

UNITS:

UG/L

UG/L

UG/L

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE									
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		2	U		2	U				
2-METHYLNAPHTHALENE	2	U		2	U		2	U				
ACENAPHTHENE	4	U		4	U		4	U				
ACENAPHTHYLENE	4	U		4	U		4	U				
ANTHRACENE	2	U		2	U		2	U				
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.2	U				
BENZO(A)PYRENE	0.2	U		0.2	U		0.2	U				
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.2	U				
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.2	U				
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.2	U				
CHRYSENE	2	U		2	U		2	U				
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.2	U				
FLUORANTHENE	2	U		2	U		2	U				
FLUORENE	2	U		2	U		2	U				
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.2	U				
NAPHTHALENE	2	U		2	U		2	U				
PHENANTHRENE	2	U		2	U		2	U				
PYRENE	2	U		2	U		2	U				

CTO192-NAS JACKSONVILLE

WATER DATA

Accutest, NJ

SDG: F11824

SAMPLE NUMBER:	JAX-21-MW1S-01	JAX-21-MW2S-01	JAX-21-MW3S-01	
SAMPLE DATE:	12/17/01	12/17/01	12/17/01	//
LABORATORY ID:	F11824-2	F11824-3	F11824-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	MG/L	MG/L	MG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
TOTAL PETROLEUM HYDROCARBONS	0.28	U		0.28	U		0.28	U				

CTO192-NAS JACKSONVILLE

WATER DATA

Accutest, NJ

SDG: F11824

SAMPLE NUMBER:

JAX-21-MW1S-01

JAX-21-MW2S-01

JAX-21-MW3S-01

SAMPLE DATE:

12/17/01

12/17/01

12/17/01

//

LABORATORY ID:

F11824-2

F11824-3

F11824-1

QC_TYPE:

NORMAL

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

0.0 %

100.0 %

UNITS:

UG/L

UG/L

UG/L

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE									
INORGANICS												
LEAD	2.4	U	A	1.2	U		1.8	U	A			

Accutest Laboratories

Sample Summary

Tetra-Tech,NUS

Job No: F11824

NAS JAX- N2872 KJ0050115

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F11824-1	12/17/01	12:40 LK	12/18/01	AQ	Ground Water	JAX-21-MW3S-01
F11824-2	12/17/01	10:15 LK	12/18/01	AQ	Ground Water	JAX-21-MW1S-01
F11824-3	12/17/01	11:20 LK	12/18/01	AQ	Ground Water	JAX-21-MW2S-01

Report of Analysis

Client Sample ID:	JAX-21-MW3S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-1	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 504.1 EPA 504		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD04342.D	1	12/19/01	SKW	12/19/01	OP4404	GDD160
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW3S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-1	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007976.D	1	12/19/01	RA	n/a	n/a	GQR338
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JAX-21-MW3S-01	Date Sampled: 12/17/01
Lab Sample ID: F11824-1	Date Received: 12/18/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: NAS JAX- N2872 KJ0050115	

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	99%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	100%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	105%		80-120%
98-08-8	aaa-Trifluorotoluene	99%		70-127%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW3S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-1	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 8310 SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006767.D	1	12/26/01	MRE	12/21/01	OP4416	GEE307
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	34%		33-141%
92-94-4	p-Terphenyl	84%		31-122%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW3S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-1	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18989.D	1	12/26/01	ME	12/22/01	OP4433	GOP708
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW3S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-1	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050115		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1.8 B	5.0	1.2	ug/l	1	12/19/01	12/20/01 DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Report of Analysis

Client Sample ID: JAX-21-MW1S-01	Date Sampled: 12/17/01
Lab Sample ID: F11824-2	Date Received: 12/18/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 504.1 EPA 504	
Project: NAS JAX- N2872 KJ0050115	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD04343.D	1	12/19/01	SKW	12/19/01	OP4404	GDD160
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW1S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-2	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007977.D	1	12/19/01	RA	n/a	n/a	GQR338
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW1S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-2	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	NAS JAX- N2872 KJ0050115		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	101%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	101%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	105%		80-120%
98-08-8	aaa-Trifluorotoluene	100%		70-127%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW1S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-2	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 8310 SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006768.D	1	12/26/01	MRE	12/21/01	OP4416	GEE307
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		33-141%
92-94-4	p-Terphenyl	83%		31-122%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW1S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-2	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18990.D	1	12/26/01	ME	12/22/01	OP4433	GOP708
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		55-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JAX-21-MW1S-01	Date Sampled: 12/17/01
Lab Sample ID: F11824-2	Date Received: 12/18/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: NAS JAX- N2872 KJ0050115	

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	2.4 B	5.0	1.2	ug/l	1	12/19/01	12/20/01 DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
 IDL = Instrument Detection Limit

U = Indicates a result < IDL
 B = Indicates a result >= IDL but < RL

Report of Analysis

Client Sample ID:	JAX-21-MW2S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-3	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 504.1 EPA 504		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD04344.D	1	12/19/01	SKW	12/19/01	OP4404	GDD160
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW2S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-3	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007978.D	1	12/19/01	RA	n/a	n/a	GQR338
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JAX-21-MW2S-01	Date Sampled: 12/17/01
Lab Sample ID: F11824-3	Date Received: 12/18/01
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8021B	
Project: NAS JAX- N2872 KJ0050115	

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	95%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	101%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	106%		80-120%
98-08-8	aaa-Trifluorotoluene	99%		70-127%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW2S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-3	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 8310 SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006769.D	1	12/26/01	MRE	12/21/01	OP4416	GEE307
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		33-141%
92-94-4	p-Terphenyl	84%		31-122%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW2S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-3	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	FLORIDA-PRO SW846 3510C		
Project:	NAS JAX- N2872 KJ0050115		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18991.D	1	12/26/01	ME	12/22/01	OP4433	GOP708
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		55-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JAX-21-MW2S-01	Date Sampled:	12/17/01
Lab Sample ID:	F11824-3	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050115		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1.2 U	5.0	1.2	ug/l	1	12/19/01	12/20/01 DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
 IDL = Instrument Detection Limit

U = Indicates a result < IDL
 B = Indicates a result >= IDL but < RL



PROJECT NO: N2872KJ0050113		SITE NAME: PCA-21		PROJECT MANAGER AND PHONE NUMBER GREG ROOF 904/281-0400			LABORATORY NAME AND CONTACT: ACUTEST - L. Williams				
SAMPLERS (SIGNATURE) <i>[Signature]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER JOE FERRANTI 904/281-0400			ADDRESS 4405 Vineland RD C-15						
		CARRIER/WAYBILL NUMBER FED EX 8207 2074-0410			CITY, STATE Orlando, FL 32811						
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/>					CONTAINER TYPE PLASTIC (P) or GLASS (G)						
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day					PRESERVATIVE USED						
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
						UOH	UPL	FLO-PRO-TRPH	PAH 8310		EDB
12/17	1015	JAX-21-MWIS-01	GW	G		3	2	2	3	1	
12/17	1120	JAX-21-MW2S-01	GW	G		3	2	2	3	1	
12/17			GW	G		3	2	2	3	1	
1. RELINQUISHED BY <i>[Signature]</i>		DATE	TIME	1. RECEIVED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME
COMMENTS											

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