C15171
Correspondence

DEPARTMENT OF THE NAVY
P.O. BOX 5
NAVAL AIR STATION
JACKSONVILLE, FLORIDA 32212-5000

IN REPLY REFER TO:
5090
Ser 184/ 04637
14 AUG 2003

Florida Department of Environmental Protection
Attention: Jorge Caspary
Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399

RECEIVED
AUG 18 2003
TETRA TECH NUS
JACKSONVILLE FL

SUBJECT: SAMPLING RESULTS FOR MONITORING WELLS FOR THE FORMER PLATING SHOP NAVAL AIR STATION, JACKSONVILLE JACKSONVILLE, FLORIDA

Dear Mr. Caspary:

Naval Air Station Jacksonville is submitting the results for sampling performed on November 3, 2002 at the former Plating Shop. Sampling was performed in accordance with Florida Department of Environmental Protection Standard Operating Procedures.

Analytical results indicate that Volatile Organic Compounds (VOCs) (cis-1,2-dichloroethene and trichloroethene) were detected in monitoring well OPSMW2 and chlorinated VOCs (1,1-dichloroethane and vinyl chloride) were detected in monitoring well PZ021. All of the concentrations were less than the respective Groundwater Target Cleanup Levels (GCTLs) for the detected VOCs.

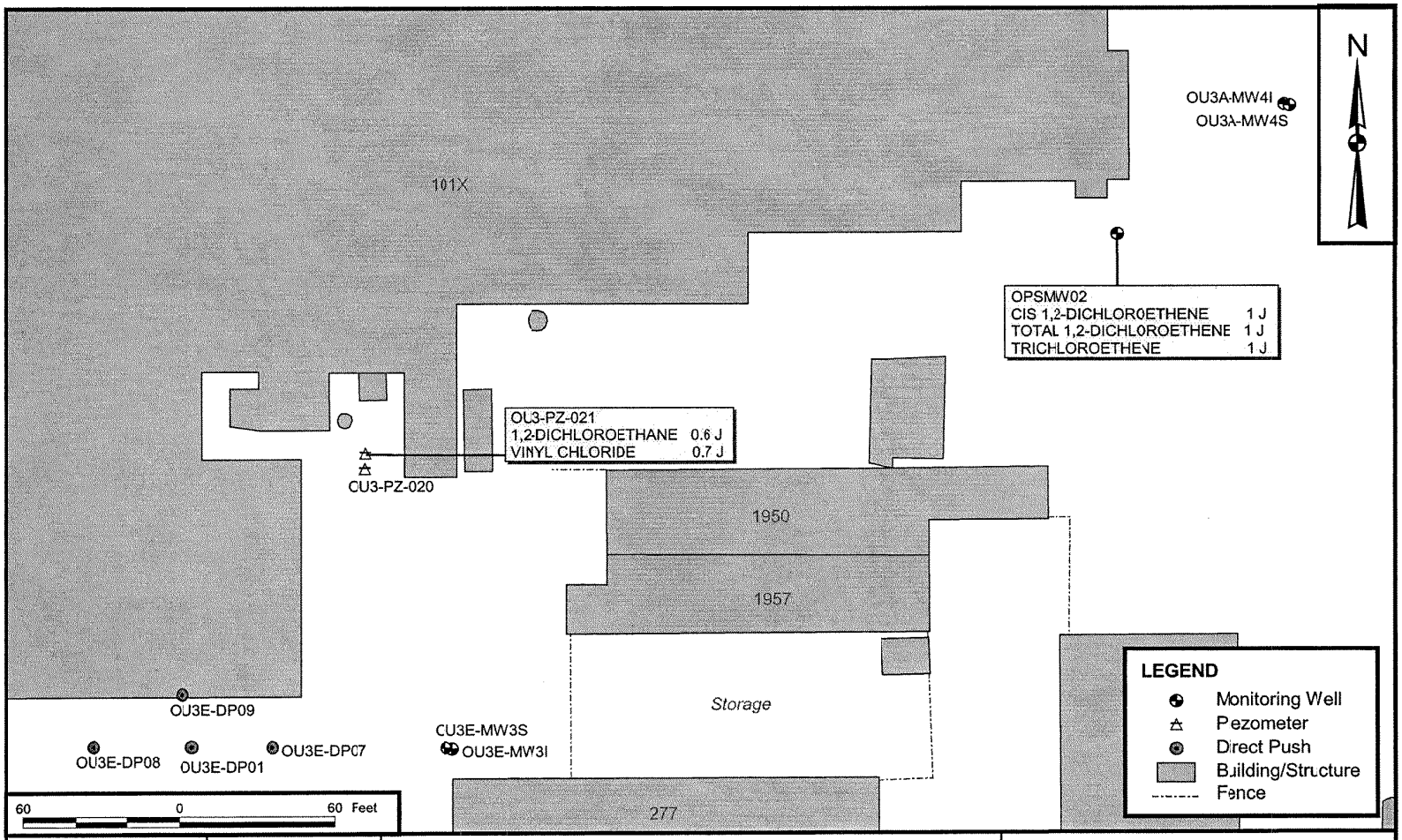
If you have any questions, please contact Jane Beason at (904) 542-2717 extension 139.

Sincerely,

M. L. EARLY
Commander
Civil Engineer Corps, U.S. Navy
Facilities Officer
By direction of the
Commanding Officer

Enclosures

Copy to:
Commanding Officer, Southern Division, Naval Facilities Engineering Command (Code ES31)
Tetra Tech NUS, Mr. Greg Roof



DRAWN BY / DATE	J. LAMEY 8/4/03
CHECKED BY / DATE	
REVISED BY / DATE	
SCALE	AS NOTED

GROUNDWATER ANALYTICAL RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 2003
OLD PLATING SHOP
NAS JACKSONVILLE, FLORIDA

CONTRACT NUMBER	—
APPROVED BY / DATE	— / —
APPROVED BY / DATE	— / —
DRAWING NO.	FIGURE 1
REV	0

P:\GIS\JACKSONVILLE_NAS\APR\OLD_PLATING_SHOP.APR 8/4/03 JAL

LABORATORY DATA

(Note: Sample identifier JAX-101-OPSMW1 was collected from OPSMW2.)

TETRA TECH NUS, INC.
NAS JACKSONVILLE
CTO 162
WS4324
FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

December 2, 2002

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

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SAMPLE DATA PACKAGE

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 162 NAS JACKSONVILLE
WS4324
TASK ORDER MANAGER: GREG ROOF

Sample Receipt

The following samples were received on November 15, 2002 and were logged in under Katahdin Analytical Services work order number WS4324 for a hardcopy due date of December 6, 2002.

KATAHDIN Sample No.	TTNUS Sample Identification
WS4324-1	JAX-101-OPSMW1-01
WS4324-2	JAX-101-PZ021-01

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organics Analysis

Two aqueous samples were received by the Katahdin GC/MS laboratory on November 15, 2002, and were specified to be analyzed and quantitated for a client-specified list of analytes in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5972-M instrument.

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) for these samples are statistically derived limits. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes are outside of QC limits.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curve analyzed for this SDG, linear or quadratic models were used for those analytes having %RSD values exceeding 15%.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

Maria Crouch
12.02.02
Maria Crouch
Data Management Supervisor

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # KWS4323 + KWS4324 + KWS4325

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetra tech

PROJECT: NAS JAX

COC#
SDG#
DATE / TIME RECEIVED: 11-Nov 0855
DELIVERED BY: Fedex
RECEIVED BY:
LIMS ENTRY BY:
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C) = 0.8	AC notified client 11/15/02
COOLER TEMP (°C) = NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: Received Trip Blank not on COC — run per Alan Pote 11/15/02

(1) **Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discreparcies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.**

H000000

TETRA TECH NUS, INC. W54B24 CHAIN OF CUSTODY | NUMBER 0369 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N	Bldg 101	GREG ROOF	904-636-6125	KATAHDIN / ANDREA COLBY
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Alan Pate		ALAN PATE	904-636-6125	340 COUNTY Rd. #5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX 8371 1005 9531		WESTBROOK, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TCL VOCs (8260B)	COMMENTS
11/13	1040	JAX-101-OPSMW1-01	OPSMW1	0	14	GW	G	3			X	COOL TO 4°C
11/13	1005	JAX-101-PZ021-01	PZ021	0	13	GW	G	3			X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Alan Pate	11/13/02	1630	1. RECEIVED BY	11-15-02	0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

5000000

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 15, 2002
01:02 PM

Login Number: WS4324

Account: TETRAT001
Tetra Tech NUS, Inc.

Project: TETRAT197001
NAS JAX CTO 197

Primary Report Address:
Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Primary Invoice Address:
Accounts Payable
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CLIENT PO#	:	MSA-0402-N4113-05 N3966-WR80(SS)
COOLER TEMPERATURE	:	0.8
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS050QC-DB3
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	NAS JACKSONVILLE CTO162
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Rpt to MDL & J to PQL. Email EDD to Amy Thomson. Send copy of rpt on CD. TTNUS TOM is Greg Roof. Data summary needs all forms. Inc FL cert # in rpt.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4324-1	JAX-101-OPSMW1-01	13-NOV-02 10:40	15-NOV-02		06-DEC-02	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260OLM	27-NOV-02	40mL Vial+HCl	3

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Due Date	Comments
WS4324-2	JAX-101-PZ021-01	13-NOV-02 10:05	15-NOV-02		06-DEC-02	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260OLM	27-NOV-02	40mL Vial+HCl	3

Total Samples: **2** ***Total Analyses:*** **2**

DATA VALIDATION TRACKING FORM

Site Name :_NAS JACKSONVILLE__ **Region:**____4____

Proj Manager:_ROOF,G._____ **CTO:**__162____

Charge No.:__3966_____ **Validation:**

Validator:__STAFFEN,S._____ ☐ **Full**

QA:_____ ☐ **Limited**

■ **Cursory**

Sample Delivery Group:_____WS4324_____

Fraction:		AQUEOUS	SOLID	AIR
■	**VOA**	__2___	_____	_____
☐	**OVG**	_____	_____	_____
☐	**SVOA**	_____	_____	_____
☐	**PAH**	_____	_____	_____
☐	**PEST/PCB**	_____	_____	_____
☐	**HERB**	_____	_____	_____
☐	**PET**	_____	_____	_____
☐	**EXP**	_____	_____	_____
☐	**DIOX**	_____	_____	_____
☐	**OTHER**	_____	_____	_____

Date Assigned:_12/11/02_____
Due Date:_____12/11/02_____
Date Valid Complete:_12-11-02__
Date QA Complete:_____

LOE Allotted: _____hrs
LOE Expended:
Validation _____hrs
Corrections _____hrs
QA _____hrs

Total LOE Expended _____hrs

PROJ_NO: 3966

SDG: WS4324 MEDIA: WATER DATA FRACTION:

nsample	JAX-101-OPSMW1-01	nsample	JAX-101-OPSMW1-0	nsample	JAX-101-PZ021-01
samp_date	11/13/2002	samp_date	11/13/2002	samp_date	11/13/2002
lab_id	WS4324-1	lab_id	WS4324-1	lab_id	WS4324-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0	Pct_Solids	0	Pct_Solids	0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	1	J	P

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	1	J	P
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	1	J	P
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	0.6	J	P
1,1-DICHLOROETHENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	

PROJ_NO: 3966

SDG: WS4324 MEDIA: WATER DATA FRACTION:

nsample	JAX-101-PZ021-01
samp_date	11/13/2002
lab_id	WS4324-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	5	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	0.7	J	P

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-1
Client ID: JAX-101-OPSMW1-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	J	1	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	J	1	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	J	1	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-1
Client ID: JAX-101-OPSMW1-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-2
Client ID: JAX-101-PZ021-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	J	0.7	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	J	0.6	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-2
Client ID: JAX-101-PZ021-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		105%				

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Instrument ID: GCMS-M Calibration Date: 11/18/02 Time: 0817

Lab File ID: M7238 Init. Calib. Date(s): 11/08/02 11/08/02

Init. Calib. Times: 0759 1135

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.5540000	0.6116000	0.6116000	0.01	10.40		AVRG
Chloromethane	0.6410000	0.7272500	0.7272500	0.1	13.46		AVRG
Vinyl chloride	0.4650000	0.5067500	0.5067500	0.01	8.98	20.00	AVRG
Bromomethane	42.707000	50.000000	0.1706500	0.01	-14.59		LINR
Chloroethane	0.2320000	0.2574900	0.2574900	0.01	10.99		AVRG
Trichlorofluoromethane	0.6690000	0.7869800	0.7869800	0.01	17.64		AVRG
1,1-Dichloroethene	0.4050000	0.4384500	0.4384500	0.1	8.26	20.00	AVRG
Carbon Disulfide	1.5390000	1.6076000	1.6076000	0.01	4.46		AVRG
Freon-113	0.3950000	0.4273900	0.4273900	0.01	8.20		AVRG
Methylene Chloride	0.4900000	0.4866200	0.4866200	0.01	-0.69		AVRG
Acetone	4.7e-002	3.88e-002	3.88e-002	0.01	-17.45		AVRG
trans-1,2-Dichloroethene	0.4620000	0.4838100	0.4838100	0.01	4.72		AVRG
Methyl tert-butyl ether	48.166000	50.000000	1.0173000	0.01	-3.67		2RDR
1,1-Dichloroethane	0.7820000	0.8835800	0.8835800	0.01	12.99		AVRG
cis-1,2-Dichloroethene	0.4630000	0.4901400	0.4901400	0.01	5.86		AVRG
1,2-Dichloroethylene (total)	0.4620000	0.4869800	0.4869800	0.01	5.41		AVRG
Chloroform	0.8630000	0.8886900	0.8886900	0.01	2.98	20.00	AVRG
Carbon Tetrachloride	57.061000	50.000000	0.5616000	0.01	14.12		LINR
1,1,1-Trichloroethane	0.6830000	0.7577400	0.7577400	0.01	10.94		AVRG
2-Butanone	4.2e-002	3.72e-002	3.72e-002	0.01	-11.43		AVRG
Benzene	1.2520000	1.3586000	1.3586000	0.01	8.51		AVRG
Cyclohexane	0.6590000	0.6807100	0.6807100	0.01	3.29		AVRG
1,2-Dichloroethane	0.4520000	0.4907300	0.4907300	0.01	8.57		AVRG
Trichloroethene	0.3300000	0.3624400	0.3624400	0.01	9.83		AVRG
1,2-Dichloropropane	0.3060000	0.3389100	0.3389100	0.01	10.76	20.00	AVRG
Bromodichloromethane	0.4320000	0.4740800	0.4740800	0.01	9.74		AVRG
cis-1,3-dichloropropene	0.4620000	0.5392700	0.5392700	0.01	16.72		AVRG
Toluene	0.7440000	0.8191200	0.8191200	0.01	10.10	20.00	AVRG
4-methyl-2-pentanone	0.2380000	0.2261200	0.2261200	0.01	-4.99		AVRG

WS4324

HOLDING TIME
12/11/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-101-OPSMW1-01	WS4324-1	NORMAL	WS4324	OV	11/13/02	11/18/02	11/18/02	5	0	5
UG/L	JAX-101-PZ021-01	WS4324-2	NORMAL	WS4324	OV	11/13/02	11/18/02	11/18/02	5	0	5
UG/L	WG1233-BLANK	WG1233-1	P BLANK	WS4324	OV	11/18/02	11/18/02	11/18/02	0	0	0
UG/L	WG1233-LCS	WG1233-2	LCS	WS4324	OV	11/18/02	11/18/02	11/18/02	0	0	0

CTO162
SDGWS4324
OV

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID:. WS4324-1
Client ID: JAX-101-OPSMW1-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	J	1	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	J	1	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	J	1	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966 WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-1
Client ID: JAX-101-OPSMW1-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-2
Client ID: JAX-101-PZ021-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	J	0.7	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	J	0.6	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date: 11/13/02
Received Date: 11/15/02
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WS4324-2
Client ID: JAX-101-PZ021-01
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.1
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	0.2
74-87-3	Chloromethane	U	5	1.0	5	5	0.3
75-01-4	Vinyl chloride	U	5	1.0	5	5	0.1
74-83-9	Bromomethane	U	5	1.0	5	5	0.9
75-00-3	Chloroethane	U	5	1.0	5	5	0.3
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	0.2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	0.3
75-15-0	Carbon Disulfide	U	5	1.0	5	5	0.2
76-13-1	Freon-113	U	5	1.0	5	5	0.5
75-09-2	Methylene Chloride	J	0.5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	0.7
1634-04-4	Methyl tert-butyl ether	U	5	1.0	5	5	0.3
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	0.1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	0.5
540-59-0	1,2-Dichloroethylene (total)	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	0.2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	0.3
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	0.7
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	5	1.0	5	5	0.1
1735-17-7	Cyclohexane	U	5	1.0	5	5	2
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	0.3
79-01-6	Trichloroethene	U	5	1.0	5	5	0.6
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	0.2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	0.2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	0.4
108-88-3	Toluene	U	5	1.0	5	5	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	5	1.0	5	5	0.4
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	0.4
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	0.3
124-48-1	Dibromochloromethane	U	5	1.0	5	5	0.3
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	5	1.0	5	5	0.2
100-41-4	Ethylbenzene	U	5	1.0	5	5	0.1
1330-20-7	Xylenes (total)	U	5	1.0	5	5	0.3
	m+p-Xylenes	U	5	1.0	5	5	0.2
95-47-6	o-Xylene	U	5	1.0	5	5	0.2
100-42-5	Styrene	U	5	1.0	5	5	0.3
75-25-2	Bromoform	U	5	1.0	5	5	0.4
98-82-8	Isopropylbenzene	U	5	1.0	5	5	0.2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: NAS JACKSONVILLE CTO162
PO NO: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER
% Solids: NA

Lab ID: WG1233-1
Client ID: WG1233-Blank
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	0.4
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	0.2
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	0.2
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	0.6
120-82-1	1,2,4-Trichlorobenzene	J	0.8	1.0	5	5	0.3
79-20-9	Methyl Acetate	U	5	1.0	5	5	4
108-87-2	Methylcyclohexane	U	5	1.0	5	5	2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		105%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES, Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG1233-LCS	WG1233-2	100	98	106	108	0
02	WG1233-BLANK	WG1233-1	100	100	104	105	0
03	JAX-101-OPSMW1-01	WS4324-1	102	105	102	105	0
04	JAX-101-PZ021-01	WS4324-2	105	108	101	105	0
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07							
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28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(75-129)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(65-135)
SMC3 (TOL)	= Toluene-D8	(82-120)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO NO: MSA-0402-N4113-05 N3966-WK80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER

Lab ID: WG1233-2
Client ID: WG1233-LCS
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	52	103	4-217
Chloromethane	50	NA	51	103	40-163
Vinyl chloride	50	NA	51	102	55-151
Bromomethane	50	NA	48	96	24-217
Chloroethane	50	NA	53	107	69-154
Trichlorofluoromethane	50	NA	51	102	71-147
1,1-Dichloroethene	50	NA	52	104	78-136
Carbon Disulfide	50	NA	50	101	70-136
Freon-113	50	NA	51	103	60-140
Methylene Chloride	50	NA	49	98	52-115
Acetone	50	NA	45	90	0-158
trans-1,2-Dichloroethene	50	NA	50	100	84-131
Methyl tert-butyl ether	50	NA	44	88	62-130
1,1-Dichloroethane	50	NA	53	107	81-134
cis-1,2-Dichloroethene	50	NA	52	103	84-123
1,2-Dichloroethylene (total)	100	NA	102	102	84-131
Chloroform	50	NA	51	102	80-130
Carbon Tetrachloride	50	NA	55	109	74-137
1,1,1-Trichloroethane	50	NA	54	108	76-138
2-Butanone	50	NA	48	95	49-154
Benzene	50	NA	51	102	88-120
Cyclohexane	50	NA	51	101	60-140
1,2-Dichloroethane	50	NA	54	107	78-138
Trichloroethene	50	NA	52	105	80-125
1,2-Dichloropropane	50	NA	52	105	80-122
Bromodichloromethane	50	NA	54	109	83-133
cis-1,3-dichloropropene	50	NA	55	111	81-138
Toluene	50	NA	52	105	88-121
4-methyl-2-pentanone	50	NA	49	98	72-140
Tetrachloroethene	50	NA	52	104	77-129
trans-1,3-Dichloropropene	50	NA	55	111	81-149
1,1,2-Trichloroethane	50	NA	51	101	82-126
Dibromochloromethane	50	NA	54	108	80-133
1,2-Dibromoethane	50	NA	52	103	88-127
2-Hexanone	50	NA	52	103	45-146
Chlorobenzene	50	NA	52	103	84-123
Ethylbenzene	50	NA	52	104	84-131
Xylenes (total)	150	NA	157	105	88-123
m+p-Xylenes	100	NA	104	104	88-122
o-Xylene	50	NA	53	105	90-123
Styrene	50	NA	53	107	87-131
Bromoform	50	NA	56	111	77-138
Isopropylbenzene	50	NA	56	112	88-125
1,1,2,2-Tetrachloroethane	50	NA	53	106	81-131
1,3-Dichlorobenzene	50	NA	56	112	86-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NAS JACKSONVILLE CTO162
PO No: MSA-0402-N4113-05 N3966-WR80(SS)
Sample Date:
Received Date:
Extraction Date: 11/18/02
Analysis Date: 11/18/02
Report Date: 12/02/2002
Matrix: WATER

Lab ID: WG1233-2
Client ID: WG1233-LCS
SDG: WS4324
Extracted by: BEG
Extraction Method: SW846 5030
Analyst: BEG
Analysis Method: SW846 8260B
Lab Prep Batch: WG1233
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,4-Dichlorobenzene	50	NA	56	111	80-127
1,2-Dichlorobenzene	50	NA	55	110	86-126
1,2-Dibromo-3-Chloropropane	50	NA	54	108	61-136
1,2,4-Trichlorobenzene	50	NA	56	113	53-157
Methyl Acetate	50	NA	37	73	60-140
Methylcyclohexane	50	NA	48	97	60-140

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG1233-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVI Project: NAS JACKSONVIL

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Lab File ID: M7240 Lab Sample ID: WG1233-1

Date Analyzed: 11/18/02 Time Analyzed: 1004

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG1233-LCS	WG1233-2	M7239	11/18/02	0901
02	JAX-101-OPSMW1-01	WS4324-1	M7241	11/18/02	1053
03	JAX-101-PZ021-01	WS4324-2	M7242	11/18/02	1131
04					
05					
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COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Lab File ID: MB158 BFB Injection Date: 11/08/02

Instrument ID: GCMS-M BFB Injection Time: 0730

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	89.9
175	4.0 - 9.0% of mass 174	6.8 (7.5)1
176	95.0 - 101.0% of mass 174	89.8 (99.9)1
177	5.0 - 9.0% of mass 176	6.6 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M08A	M7167	11/08/02	0759
02		VSTD020M08A	M7168	11/08/02	0907
03		VSTD010M08A	M7169	11/08/02	0944
04		VSTD005M08A	M7170	11/08/02	1021
05		VSTD200M08A	M7171	11/08/02	1058
06		VSTD100M08A	M7172	11/08/02	1135
07					
08					
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22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUORODENZENE (DFD)

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Lab File ID: MB166 BFB Injection Date: 11/18/02

Instrument ID: GCMS-M BFB Injection Time: 0748

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	43.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.6
175	4.0 - 9.0% of mass 174	6.4 (7.4)1
176	95.0 - 101.0% of mass 174	83.7 (97.8)1
177	5.0 - 9.0% of mass 176	6.4 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M18A	M7238	11/18/02	0817
02	WG1233-LCS	WG1233-2	M7239	11/18/02	0901
03	WG1233-BLANK	WG1233-1	M7240	11/18/02	1004
04	JAX-101-OPSMW1-01	WS4324-1	M7241	11/18/02	1053
05	JAX-101-PZ021-01	WS4324-2	M7242	11/18/02	1131
06					
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FORM V VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Instrument ID: GCMS-M Calibration Date(s): 11/08/02 11/08/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 0759 1135

LAB FILE ID: RF5: M7170 RF10: M7169 RF20: M7168
RF50: M7167 RF100: M7172 RF200: M7171

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.552	0.538	0.544	0.609	0.534	0.544	AVRG		0.55359		5.070	15.000	
Chloromethane	0.667	0.631	0.635	0.669	0.644	0.601	AVRG		0.64124		3.917	15.000	
Vinyl chloride	0.464	0.452	0.449	0.500	0.466	0.459	AVRG		0.46528		3.978	15.000	
Bromomethane	2605	5523	13442	30253	75309	155260	LINR	0.10075	4.42483		0.99913	0.99000	
Chloroethane	0.209	0.235	0.217	0.252	0.240	0.237	AVRG		0.23162		6.903	15.000	
Trichlorofluoromethane	0.719	0.658	0.636	0.695	0.651	0.654	AVRG		0.66889		4.711	15.000	
1,1-Dichloroethene	0.413	0.411	0.409	0.452	0.353	0.390	AVRG		0.40472		8.032	15.000	
Carbon Disulfide	1.499	1.543	1.562	1.649	1.497	1.482	AVRG		1.53671		4.036	15.000	
Freon-113	0.407	0.401	0.389	0.432	0.355	0.387	AVRG		0.39525		6.426	15.000	
Methylene Chloride	0.553	0.501	0.482	0.498	0.460	0.449	AVRG		0.49050		7.532	0.000	<-
Acetone	0.047	0.047	0.048	0.026	0.063	0.051	AVRG		5e-002		25.079	15.000	<-
trans-1,2-Dichloroethene	0.464	0.450	0.470	0.494	0.445	0.446	AVRG		0.46144		4.074	15.000	
Methyl tert-butyl ether	11230	25896	72192	180420	316620	481990	2ORDR	0.11406	0.50584	0.32337	0.99938	0.99000	
1,1-Dichloroethane	0.721	0.718	0.813	0.886	0.778	0.774	AVRG		0.78182		8.028	15.000	
cis-1,2-Dichloroethene	0.460	0.451	0.452	0.499	0.464	0.450	AVRG		0.46259		4.029	15.000	
1,2-Dichloroethylene (total)	0.462	0.451	0.461	0.496	0.454	0.448	AVRG		0.46202		3.832	15.000	
Chloroform	0.918	0.873	0.847	0.901	0.821	0.820	AVRG		0.86326		4.745	15.000	
Carbon Tetrachloride	24470	35936	62760	126840	230440	438720	LINR	-0.1620	2.32049		0.99935	0.99000	
1,1,1-Trichloroethane	0.666	0.656	0.687	0.748	0.681	0.660	AVRG		0.68296		4.974	15.000	
2-Butanone	0.038	0.040	0.043	0.028	0.058	0.047	AVRG		4e-002		23.170	15.000	<-
Benzene	1.251	1.241	1.303	1.331	1.211	1.176	AVRG		1.25212		4.564	15.000	
Cyclohexane	0.657	0.662	0.650	0.721	0.637	0.626	AVRG		0.65910		5.039	15.000	
1,2-Dichloroethane	0.440	0.448	0.460	0.481	0.466	0.418	AVRG		0.45217		4.862	15.000	
Trichloroethene	0.331	0.321	0.333	0.351	0.327	0.319	AVRG		0.33046		3.482	15.000	
1,2-Dichloropropane	0.308	0.294	0.316	0.328	0.306	0.287	AVRG		0.30636		4.794	15.000	
Bromodichloromethane	0.421	0.422	0.431	0.458	0.437	0.421	AVRG		0.43189		3.345	15.000	
cis-1,3-dichloropropene	0.410	0.426	0.474	0.512	0.486	0.465	AVRG		0.46235		8.209	15.000	
Toluene	0.724	0.714	0.771	0.812	0.734	0.711	AVRG		0.74439		5.330	15.000	
4-methyl-2-pentanone	0.228	0.228	0.244	0.227	0.270	0.229	AVRG		0.23773		7.219	15.000	
Tetrachloroethene	0.332	0.334	0.336	0.392	0.327	0.312	AVRG		0.33880		8.096	15.000	
trans-1,3-Dichloropropene	0.334	0.359	0.360	0.419	0.420	0.386	AVRG		0.38312		8.842	15.000	
1,1,2-Trichloroethane	0.205	0.204	0.211	0.219	0.215	0.191	AVRG		0.20764		4.738	15.000	
Dibromochloromethane	0.346	0.375	0.372	0.458	0.405	0.370	AVRG		0.38768		10.133	15.000	
1,2-Dibromoethane	0.244	0.248	0.258	0.278	0.284	0.253	AVRG		0.26074		6.284	15.000	
2-Hexanone	0.258	0.261	0.264	0.198	0.336	0.267	AVRG		0.26410		16.591	15.000	<-
Chlorobenzene	1.000	1.035	1.026	1.231	0.996	0.958	AVRG		1.04099		9.328	15.000	
Ethylbenzene	1.630	1.718	1.692	2.033	1.603	1.565	AVRG		1.70696		9.931	15.000	
Xylenes (total)	0.606	0.625	0.621	0.747	0.598	0.569	AVRG		0.62760		9.877	15.000	
m+p-Xylenes	0.616	0.635	0.631	0.747	0.601	0.570	AVRG		0.63325		9.586	15.000	
o-Xylene	0.584	0.606	0.601	0.747	0.592	0.567	AVRG		0.61630		10.649	15.000	
Styrene	0.866	0.878	0.871	1.116	0.901	0.851	AVRG		0.91374		10.980	15.000	
Bromoform	0.179	0.193	0.197	0.256	0.233	0.198	AVRG		0.20938		13.876	15.000	
Isopropylbenzene	2.772	2.862	2.958	3.215	2.702	2.686	AVRG		2.86582		6.946	15.000	
1,1,2,2-Tetrachloroethane	0.547	0.609	0.588	0.666	0.628	0.543	AVRG		0.59671		8.004	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Instrument ID: GCMS-M Calibration Date(s): 11/08/02 11/08/02

Column: RTX-624 ID: 0.18 (mm) Calibration Time(s): 0759 1135

LAB FILE ID: RF5: M7170 RF10: M7169 RF20: M7168
RF50: M7167 RF100: M7172 RF200: M7171

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
1,3-Dichlorobenzene	1.439	1.513	1.542	1.683	1.448	1.395	AVRG		1.50315		6.835	15.000
1,4-Dichlorobenzene	1.530	1.564	1.612	1.742	1.482	1.432	AVRG		1.56044		6.969	15.000
1,2-Dichlorobenzene	1.306	1.372	1.424	1.504	1.341	1.245	AVRG		1.36540		6.666	15.000
1,2-Dibromo-3-Chloropropane	0.062	0.078	0.087	0.076	0.091	0.074	AVRG		8e-002		15.033	15.000
1,2,4-Trichlorobenzene	0.566	0.676	0.687	0.678	0.697	0.586	AVRG		0.64841		8.761	15.000
Methyl Acetate	2599	6438	15544	40391	87152	137620	2ORDR	0.11928	2.69958	2.75529	0.99739	0.99000
Methylcyclohexane	0.564	0.542	0.541	0.581	0.527	0.540	AVRG		0.54919		3.553	15.000
Dibromofluoromethane	0.498	0.498	0.473	0.529	0.504	0.500	AVRG		0.50024		3.539	15.000
1,2-Dichloroethane-D4	0.504	0.508	0.497	0.514	0.513	0.490	AVRG		0.50448		1.836	15.000
Toluene-D8	1.028	1.035	1.099	1.152	1.051	1.005	AVRG		1.06182		5.119	15.000
P-Bromofluorobenzene	0.399	0.406	0.411	0.463	0.402	0.397	AVRG		0.41307		6.079	15.000

Average %RSD test result.

Calculate Average %RSD: 7.484150410
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Instrument ID: GCMS-M Calibration Date: 11/18/02 Time: 0817

Lab File ID: M7238 Init. Calib. Date(s): 11/08/02 11/08/02

Init. Calib. Times: 0759 1135

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.5540000	0.6116000	0.6116000	0.01	10.40		AVRG
Chloromethane	0.6410000	0.7272500	0.7272500	0.1	13.46		AVRG
Vinyl chloride	0.4650000	0.5067500	0.5067500	0.01	8.98	20.00	AVRG
Bromomethane	42.707000	50.000000	0.1706500	0.01	-14.59		LINR
Chloroethane	0.2320000	0.2574900	0.2574900	0.01	10.99		AVRG
Trichlorofluoromethane	0.6690000	0.7869800	0.7869800	0.01	17.64		AVRG
1,1-Dichloroethene	0.4050000	0.4384500	0.4384500	0.1	8.26	20.00	AVRG
Carbon Disulfide	1.5390000	1.6076000	1.6076000	0.01	4.46		AVRG
Freon-113	0.3950000	0.4273900	0.4273900	0.01	8.20		AVRG
Methylene Chloride	0.4900000	0.4866200	0.4866200	0.01	-0.69		AVRG
Acetone	4.7e-002	3.88e-002	3.88e-002	0.01	-17.45		AVRG
trans-1,2-Dichloroethene	0.4620000	0.4838100	0.4838100	0.01	4.72		AVRG
Methyl tert-butyl ether	48.166000	50.000000	1.0173000	0.01	-3.67		2RDR
1,1-Dichloroethane	0.7820000	0.8835800	0.8835800	0.01	12.99		AVRG
cis-1,2-Dichloroethene	0.4630000	0.4901400	0.4901400	0.01	5.86		AVRG
1,2-Dichloroethylene (total)	0.4620000	0.4869800	0.4869800	0.01	5.41		AVRG
Chloroform	0.8630000	0.8886900	0.8886900	0.01	2.98	20.00	AVRG
Carbon Tetrachloride	57.061000	50.000000	0.5616000	0.01	14.12		LINR
1,1,1-Trichloroethane	0.6830000	0.7577400	0.7577400	0.01	10.94		AVRG
2-Butanone	4.2e-002	3.72e-002	3.72e-002	0.01	-11.43		AVRG
Benzene	1.2520000	1.3586000	1.3586000	0.01	8.51		AVRG
Cyclohexane	0.6590000	0.6807100	0.6807100	0.01	3.29		AVRG
1,2-Dichloroethane	0.4520000	0.4907300	0.4907300	0.01	8.57		AVRG
Trichloroethene	0.3300000	0.3624400	0.3624400	0.01	9.83		AVRG
1,2-Dichloropropane	0.3060000	0.3389100	0.3389100	0.01	10.76	20.00	AVRG
Bromodichloromethane	0.4320000	0.4740800	0.4740800	0.01	9.74		AVRG
cis-1,3-dichloropropene	0.4620000	0.5392700	0.5392700	0.01	16.72		AVRG
Toluene	0.7440000	0.8191200	0.8191200	0.01	10.10	20.00	AVRG
4-methyl-2-pentanone	0.2380000	0.2261200	0.2261200	0.01	-4.99		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO16

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Instrument ID: GCMS-M Calibration Date: 11/18/02 Time: 0817

Lab File ID: M7238 Init. Calib. Date(s): 11/08/02 11/08/02

Init. Calib. Times: 0759 1135

GC Column: RTX-624 ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloroethene	0.3390000	0.3533600	0.3533600	0.01	4.24		AVRG
trans-1,3-Dichloropropene	0.3830000	0.4293300	0.4293300	0.01	12.10		AVRG
1,1,2-Trichloroethane	0.2080000	0.2121400	0.2121400	0.01	1.99		AVRG
Dibromochloromethane	0.3880000	0.3997900	0.3997900	0.01	3.04		AVRG
1,2-Dibromoethane	0.2610000	0.2778700	0.2778700	0.01	6.46		AVRG
2-Hexanone	0.2640000	0.2286200	0.2286200	0.01	-13.40		AVRG
Chlorobenzene	1.0410000	1.0712000	1.0712000	0.3	2.90		AVRG
Ethylbenzene	1.7070000	1.7976000	1.7976000	0.01	5.31	20.00	AVRG
Xylenes (total)	0.6280000	0.6619800	0.6619800	0.01	5.41		AVRG
m+p-Xylenes	0.6330000	0.6688700	0.6688700	0.01	5.67		AVRG
o-Xylene	0.6160000	0.6482100	0.6482100	0.01	5.23		AVRG
Styrene	0.9140000	0.9415900	0.9415900	0.01	3.02		AVRG
Bromoform	0.2090000	0.2236200	0.2236200	0.1	7.00		AVRG
Isopropylbenzene	2.8660000	3.2376000	3.2376000	0.01	12.97		AVRG
1,1,2,2-Tetrachloroethane	0.5970000	0.6185100	0.6185100	0.3	3.60		AVRG
1,3-Dichlorobenzene	1.5030000	1.6622000	1.6622000	0.01	10.59		AVRG
1,4-Dichlorobenzene	1.5600000	1.7206000	1.7206000	0.01	10.30		AVRG
1,2-Dichlorobenzene	1.3650000	1.4832000	1.4832000	0.01	8.66		AVRG
1,2-Dibromo-3-Chloropropane	7.8e-002	8.56e-002	8.56e-002	0.01	9.74		AVRG
1,2,4-Trichlorobenzene	0.6480000	0.7151500	0.7151500	0.01	10.36		AVRG
Methyl Acetate	40.140000	50.000000	0.2087300	0.01	-19.72		2RDR
Methylcyclohexane	0.5490000	0.5823000	0.5823000	0.01	6.06		AVRG
Dibromofluoromethane	0.5000000	0.4962400	0.4962400	0.01	-0.75		AVRG
1,2-Dichloroethane-D4	0.5040000	0.4873800	0.4873800	0.01	-3.30		AVRG
Toluene-D8	1.0620000	1.1025000	1.1025000	0.01	3.81		AVRG
P-Bromofluorobenzene	0.4130000	0.4497200	0.4497200	0.01	8.89		AVRG

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG No.: WS4324

Lab File ID (Standard): M7238 Date Analyzed: 11/18/02

Instrument ID: GCMS-M Time Analyzed: 0817

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD		178770	8.97	238990	10.20	203065	15.24
UPPER LIMIT		357540	9.47	477980	10.70	406130	15.74
LOWER LIMIT		89385	8.47	119495	9.70	101533	14.74
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG1233-LCS	WG1233-2	168836	8.97	229706	10.20	187725	15.24
02	WG1233-BLANK	WG1233-1	168454	8.96	223930	10.20	188905	15.23
03	JAX-101-OPSMW1-01	WS4324-1	164795	8.96	224909	10.19	186052	15.23
04	JAX-101-PZ021-01	WS4324-2	159212	8.97	224003	10.20	182840	15.22
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: NAS JACKSONVILLE CTO162

Lab Code: KAS PO No.: MSA-0402-N4113-05 N396 SDG NO.: WS4324

Lab File ID (Standard): M7238 Date Analyzed: 11/18/02

Instrument ID: GCMS-M Time Analyzed: 0817

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4 (DCB) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD		101046		19.48									
UPPER LIMIT		202092		19.98									
LOWER LIMIT		50523		18.98									
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG1233-LCS	WG1233-2		95781		19.48							
02	WG1233-BLANK	WG1233-1		92481		19.48							
03	JAX-101-OPSMW1-01	WS4324-1		90501		19.48							
04	JAX-101-PZ021-01	WS4324-2		87992		19.47							
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name:	*NASJAX Bldg. 101*	Sample ID No.:	0 -01
Project No.:	*0*	Sample Location:	PZ021
		Sampled By:	A. Pate/P. Leverette
[ ] Domestic Well Data		C.O.C. No.:	0
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[X] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 11/ 13 /02	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time:	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	
Method: Low Flow Peristaltic								

PURGE DATA

Date: 11/ 13 /02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	ORP	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm):	See attached Low Flow Purge Data Sheet							
Well Casing Diameter:								
Well Casing Material: PVC								
Total Well Depth (TD): 12.8								
Static Water Level (WL): 5.30								
One Casing Volume(gal/L): 1.2								
Start Purge (hrs): 0920								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Metals: Cd, Cr	*HNO_3*	*1-500ml HDPE*	
Chloride 300.0/325.0	*None*	*125 ml HDPE*	
Sulfide 376.0	*NaOH, ZnAcetate*	*1-500 ml HDPE*	
SVOC - 8270C	*~~*	*2-1L Amber*	
PAH - 8310	*~~*	*2-1L Amber*	
VOC - 8260B	*HCl*	*3-40ml vials*	
Alcohols - 8015B	*~~*	*3-40ml vials*	

OBSERVATIONS / NOTES

Laboratory: **Katahdin**
340 County Rd. #5
Westbrook, ME 04092

phone: 207-874-2400
fax: 0

1.2 / 3 / 3.6 g = 3 vol
12.8 / 5.3 / 7.5
7.50 / .17 / 5250 / 750 / 12750
421 / 3.60 / 3.74 / 11440 / 2520 / 1080 / 13.4640 L = 3 vols

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Bldg. 101
PROJECT NUMBER: 0

WELL ID.: OPSMW1 3 gr
DATE: 11/13/02

Time (Hrs.)	Water Level (Ft below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1020	4.85	—	—	—	—	—	—	—	
1025	5.10	.5 100	6.93	0.390	2.9	0.97	26.2	1	
1030	5.12	1.0 100	6.93	0.390	1.8	0.99	26.3	5	
1035	5.14	1.5 100	6.92	0.388	3.7	0.99	26.4	13	
1040	5.14	2.0 100	6.93	0.388	3.6	1.03	26.4	17	

SIGNATURE(S): _____

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Page___ of ___

Project Site Name: NASJAX Bldg. 101
Project No.: 0

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 0 -01
Sample Location: OPSMW12
Sampled By: A. Pate/P. Leverette
C.O.C. No.: 0
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 11/13/02 Time:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Low Flow Peristaltic								

PURGE DATA

Date: 11/13/02	Time	pH	S.C.	Temp (°C)	Turbidity	DO	ORP	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0	See attached Low Flow Purge Data Sheet							
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 13.80								
Static Water Level (WL): 4.85								
One Casing Volume(gal/L):								
Start Purge (hrs): 1020								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Metals: Cd, Cr	HNO_3	1-500ml HDPE	
Chloride 300.0/325.0	None	125 ml HDPE	
Sulfide 376.0	NaOH, ZnAcetate	1-500 ml HDPE	
SVOC - 8270C	~~	2-1L Amber	
PAH - 8310	~~	2-1L Amber	
VOC - 8260B	HCl	3-40ml vials	
Alcohols - 8015B	~~	3-40ml vials	

OBSERVATIONS / NOTES

Laboratory: Katahdin
340 County Rd. #5
Westbrook, ME 04092
phone: 207-874-2400
fax: 0

Circle If Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0369 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N4049	Bldg 101	GREG ROOF	904-636-6125	KATAHDIN / ANDREA COLBY
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Alan Pate		ALAN PATE	904-636-6125	340 COUNTY Rd. #5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		FED EX 8371 1005 7531		WESTBROOK, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2002	TIME	SAMPLE ID (2 per)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TCL VOCs (8260B)	COMMENTS
11/13	1040	JAX-101-OPSMW11-01	OPSMW11	0	14	GW	G	3			X	Cool TO 4°C
11/13	1005	JAX-101-PZ021-01	PZ021	0	13	GW	G	3			X	

1. RELINQUISHED BY Alan Pate	DATE 11/13/02	TIME 1630	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001