N00213.AR.001187
NAS KEY WEST
5090.3a

BOCA CHICA HAWK MISSILE SITE B-01 MONITORED NATURAL ATTENUATION REPORT NOVEMBER 2003 WITH TRANSMITTAL LETTER NAS KEY WEST FL
2/27/2004
TETRA TECH

TETRA TECH NUS, INC.

AIK-04-0021

February 27, 2004

Project Number N4779 *via U.S. Mail*

Commander
Department of the Navy
SOUTHDIV NAVFACENGCOM
ATTN: Byas Glover (Code ES24)
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Reference: CLEAN Contract No. N62467-94-D-0888
Contract Task Order No. 0318

Subject: Boca Chica Hawk Missile Site B-01 Monitored Natural Attenuation Report November 2003, Rev. 0, Naval Air Station, Key West, Florida

Dear Mr. Glover:

TtNUS is pleased to submit the enclosed PDF file for the final Boca Chica Hawk Missile Site B-01 Monitored Natural Attenuation Report November 2003, Rev. 1, Naval Air Station, Key West, Florida. As you requested, a copy of this plan is being sent to the Florida Department of Environmental Control (FDEP) for informational purposes only. I am not expecting to receive any comments on this plan.

Please call me at (803) 649-7963, extension 345, if you have any questions regarding the enclosed CD.

Sincerely,

C. M. Bryan
Project Manager

CMB:spc

Enclosure

c: Ms. Debbie Wroblewski (Cover Letter Only)
Mr. M. Perry/File
File N4779-7.2.1
Mr. R. Courtright, NAS Key West
Mr. E. Barham, NAS Key West
Ms. T. Vaught, FDEP

900 Trail Ridge Road, Aiken, South Carolina 29803
Tel 803.649.7963 Fax 803.642.8454
www.tetratech.com

Boca Chica Hawk Missile Site B-01
Monitored Natural Attenuation Report
November 2003

Naval Air Station
Key West, Florida

Southern Division

Naval Facilities Engineering Command

Contract Number N62467-94-D-0888

Contract Task Order 0318

FEBRUARY 2004

BOCA CHICA HAWK MISSILE SITE B-01
MONITORED NATURAL ATTENUATION REPORT
NOVEMBER 2003

NAVAL AIR STATION
KEY WEST, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
Tetra Tech NUS, Inc.
661 Anderson Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220

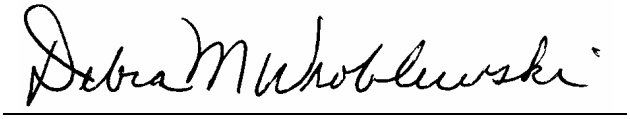
CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0318

FEBRUARY 2004

PREPARED UNDER THE SUPERVISION OF:

CHUCK BRYAN
TASK ORDER MANAGER
TETRA TECH NUS, INC.
AIKEN, SOUTH CAROLINA

APPROVED FOR SUBMITTAL BY:



DEBBIE WROBLEWSKI
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

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ACRONYMS/ABBREVIATIONS

AST	Aboveground storage tank
AVGAS	Aviation Gasoline
BBL	Blasland, Bouck, and Lee, Inc.
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater cleanup target level
KAG	Kerosene analytical group
µg/L	Micrograms per liter
MNA	Monitored Natural Attenuation
NAMPAO	Natural Attenuation Monitoring Plan Approval Order
NAVFAC EFD SOUTH	Southern Division, Naval Facilities Engineering Command
NAS	Naval Air Station
NFA	No further action
NOAA	National Oceanic and Atmospheric Administration
OVA	Organic vapor analyzer
PAH	Polynuclear aromatic hydrocarbon
ppm	Parts per million
SAR	Site Assessment Report
SCTL	Soil cleanup target level
TOC	Top of casing
TtNUS	Tetra Tech NUS, Inc.

1.0 BOCA CHICA HAWK MISSILE SITE MNA REPORT

Tetra Tech NUS, Inc. (TtNUS) has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH) to perform monitored natural attenuation (MNA) at Boca Chica Hawk Missile Site B-01, Naval Air Station (NAS) Key West, Florida. This MNA Report has been prepared under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888, Contract Task Order (CTO) number 0318. This report presents groundwater monitoring results for November 2003.

1.1 SITE HISTORY OVERVIEW

Boca Chica Hawk Missile Site B-01 is located on the northern end of Boca Chica Key (Figure 1-1). The site has been abandoned with the exception of a tower operated by the National Oceanic and Atmospheric Administration (NOAA) and an associated emergency generator with 1,000-gallon aboveground storage tank (AST) containing jet propellant fuel (JP-5), located approximately 250 feet from the study area. The site layout is shown on Figure 1-2.

1.1.1 History of Assessment Activities

A 2,000-gallon AST and a 500-gallon AST were removed from the site on April 14, 1996. These tanks were used to store diesel fuel for the site's emergency generators. They may have also been used to store JP-5 fuel on occasion. The Closure Report indicated that the soil and groundwater in the vicinity of the 2,000-gallon AST exhibited signs of petroleum contamination, and recommended that a Contamination Assessment be performed. The Navy submitted a Closure Assessment Form to the Florida Department of Environmental Protection (FDEP) on June 17, 1996 [Blasland, Bouck, and Lee (BBL), 2002].

A site assessment was conducted by BBL and a Site Assessment Report (SAR) was submitted to FDEP in February 2002. Concentrations of Kerosene Analytical Group (KAG) constituents in soil were below soil cleanup target levels (SCTLs), and organic vapor analyzer (OVA) readings did not exceed 10 parts per million (ppm). Polynuclear aromatic hydrocarbons (PAHs) were detected above Groundwater Cleanup Target Levels (GCTLs) in groundwater from monitoring wells B01-MW-01 and -03. However, no other KAG constituents were detected above GCTLs. BBL recommended that MNA take place at the site, to include monitoring of groundwater from two wells for PAHs (BBL, 2002). FDEP approved the SAR and issued a Natural Attenuation Monitoring Plan Approval Order (NAMPAO) on May 3, 2002.

1.2 GROUNDWATER MONITORING

TtNUS conducted the first quarterly groundwater monitoring event in November 2003 as specified in the MNA Sampling Plan for Boca Chica Hawk Missile Site B-01 (TtNUS, 2003). Water levels were measured in all monitoring wells at the site to provide groundwater elevation contours. The water level data was used to determine purge volumes. In addition, depth-to-water measurements and top-of-casing (TOC) elevations were used to calculate groundwater elevations. Based on these elevations, radial flow was observed at the time of the November 2003 sampling event. Figure 1-3 depicts the groundwater elevations recorded on November 11, 2003. The TOC elevations, depth to water, and groundwater elevations are summarized in Table 1-1.

Groundwater samples were collected from two monitoring wells, B01-MW-01 and B01-MW-03, for PAH analysis, as specified in the NAMPAO issued by FDEP (Appendix A). Low-flow purging and sampling techniques and the pump and vacuum trap method were used for groundwater sample collection. Groundwater sample log sheets for November 2003, which detail the purge process, are provided in Appendix B.

Following collection of the groundwater samples, the sample bottles were packed on ice and shipped via overnight transport to Katahdin Analytical Laboratory in Westbrook, Maine for PAH analysis. Analytical results are summarized in Table 1-2 and presented on Figure 1-4. Validation reports are included in Appendix C.

Two PAHs, 1-methylnapthalene and naphthalene, were detected in groundwater collected from B01-MW-01. Both were below FDEP GCTLs. No PAHs were detected in groundwater collected from monitoring well B01-MW-03.

1.3 CONCLUSIONS AND RECOMMENDATIONS

TtNUS recommends that the quarterly sampling continue to determine if PAH concentrations will remain below GCTLs. The second quarterly sampling will be performed in February 2003. If PAHs are not detected above GCTLs, no further action (NFA) status will be requested for the site.

TABLE 1-1

TOTAL DEPTHS, TOP OF CASING ELEVATIONS, AND WATER TABLE ELEVATIONS
MNA REPORT
BOCA CHICA HAWK MISSILE SITE B01
NAVAL AIR STATION
KEY WEST, FLORIDA

Well ID	Date	Total Depth (ft)	Top of Casing Elevation (ft)	Depth-to-water (ft below TOC)	Groundwater Elevation (ft)
B01-MW-01	11/11/2003	11.50	5.70	2.02	3.68
B01-MW-02	11/11/2003	10.97	5.64	3.21	2.43
B01-MW-03	11/11/2003	11.20	5.61	3.17	2.44
B01-MW-04	11/11/2003	11.37	5.53	3.15	2.38
B01-MW-05	11/11/2003	11.41	5.58	3.1	2.48

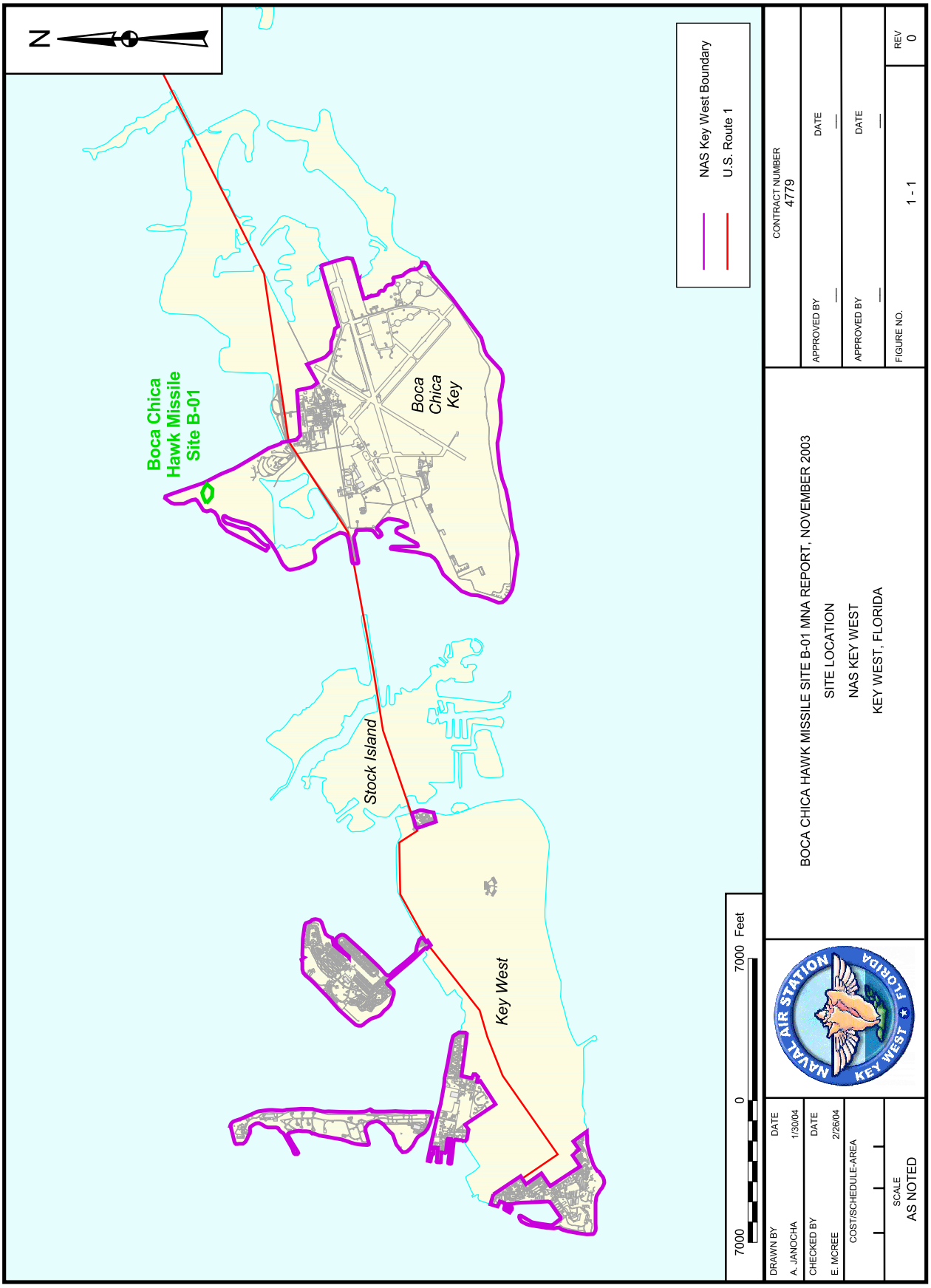
Top of Casing (TOC) Elevations were surveyed by Donaldson, Garrett, and Associates in August 2003. Vertical datum is National Geodetic Vertical Datum of 1929 (NGVD 29).

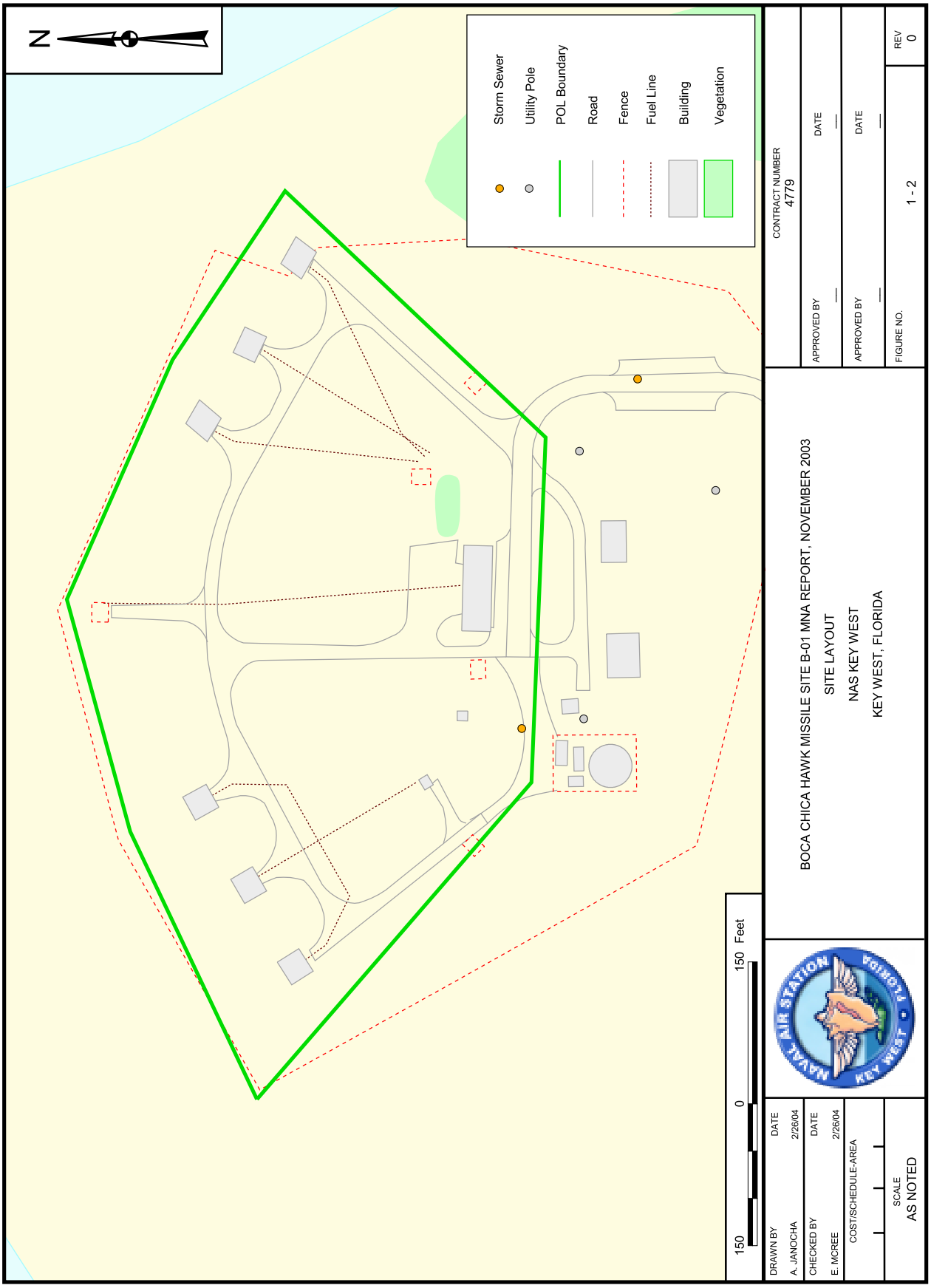
TABLE 1-2

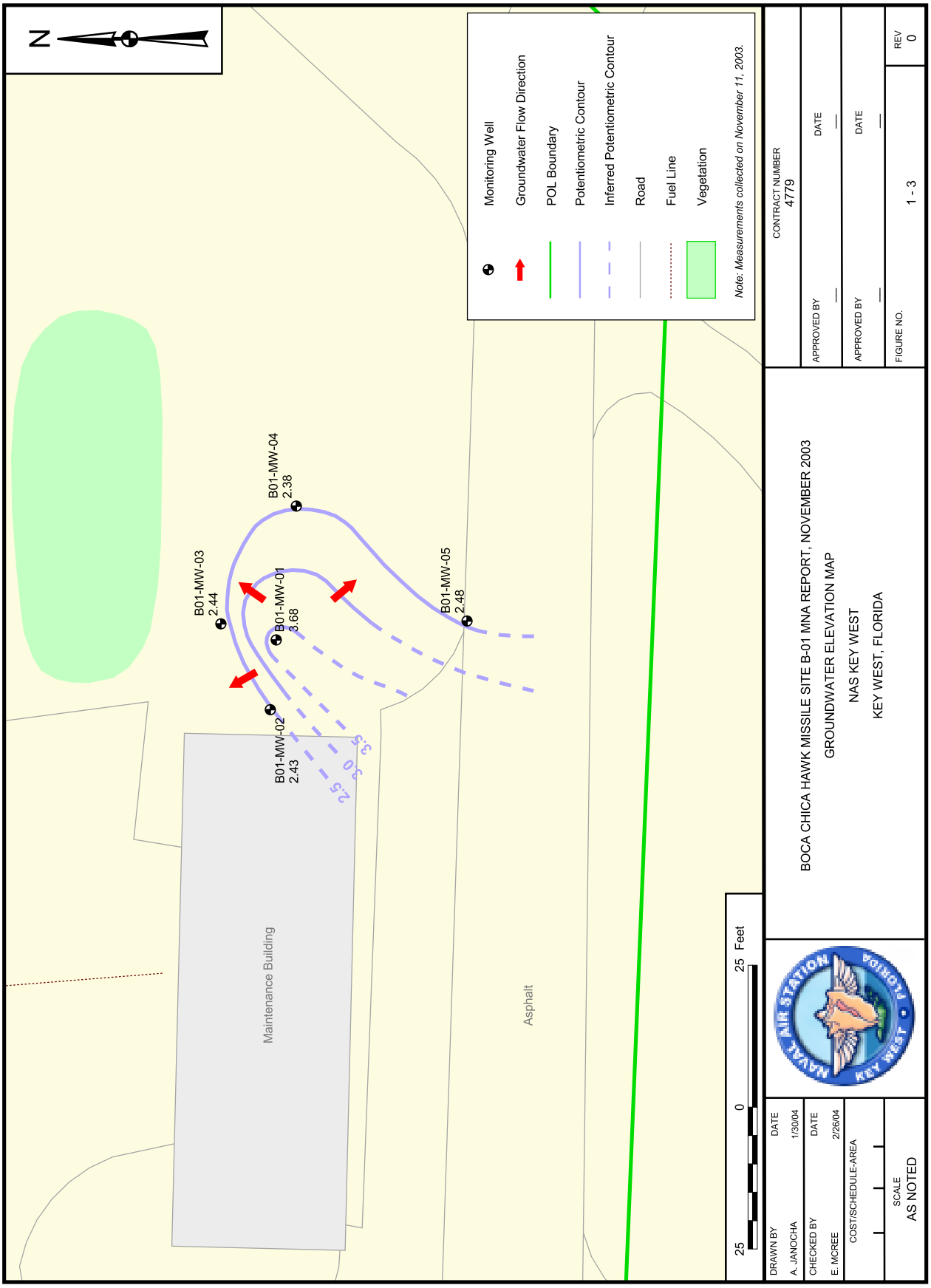
**GROUNDWATER ANALYTICAL RESULTS
MNA REPORT
BOCA CHICA HAWK MISSILE SITE B01
NAVAL AIR STATION
KEY WEST, FLORIDA**

LOCATION	PARAMETER	RESULT (µg/L)	QUAL.[a]	GCTL[b] (µg/L)
POLYNUCLEAR AROMATIC HYDROCARBONS				
B01-MW-01-1103	1-METHYLNAPHTHALENE	0.084	J	20
B01-MW-01-1103	NAPHTHALENE	0.08	J	20

(a) Qualifier (Qual.) Codes:
J – The estimated quantity was below the practical quantitation limit and above the method detection limit.
(b) Groundwater Cleanup Target Level (GCTL) as listed in F.A.C. 62-777 Table I.


N
NAS Key West Boundary
U.S. Route 1
Boca Chica Hawk Missile Site B-01
Boca Chica Key
Stock Island
Key West
7000
0
7000 Feet
BOCA CHICA HAWK MISSILE SITE B-01 MNA REPORT, NOVEMBER 2003
SITE LOCATION
NAS KEY WEST
KEY WEST, FLORIDA
NAVAL AIR STATION KEY WEST FLORIDA
DRAWN BY
A. JANOCHA
DATE
1/30/04
CHECKED BY
E. MCREE
DATE
2/26/04
COST/SCHEDULE-AREA
SCALE
AS NOTED
CONTRACT NUMBER
4779
APPROVED BY
DATE
APPROVED BY
DATE
FIGURE NO.
1 - 1
REV
0
P:/GIS/KEYWEST_NAS/APR/BCHMS_GW_RPT.APR BC HAWK MISSILE SITE LOCATION LAYOUT 2/26/04 AJ

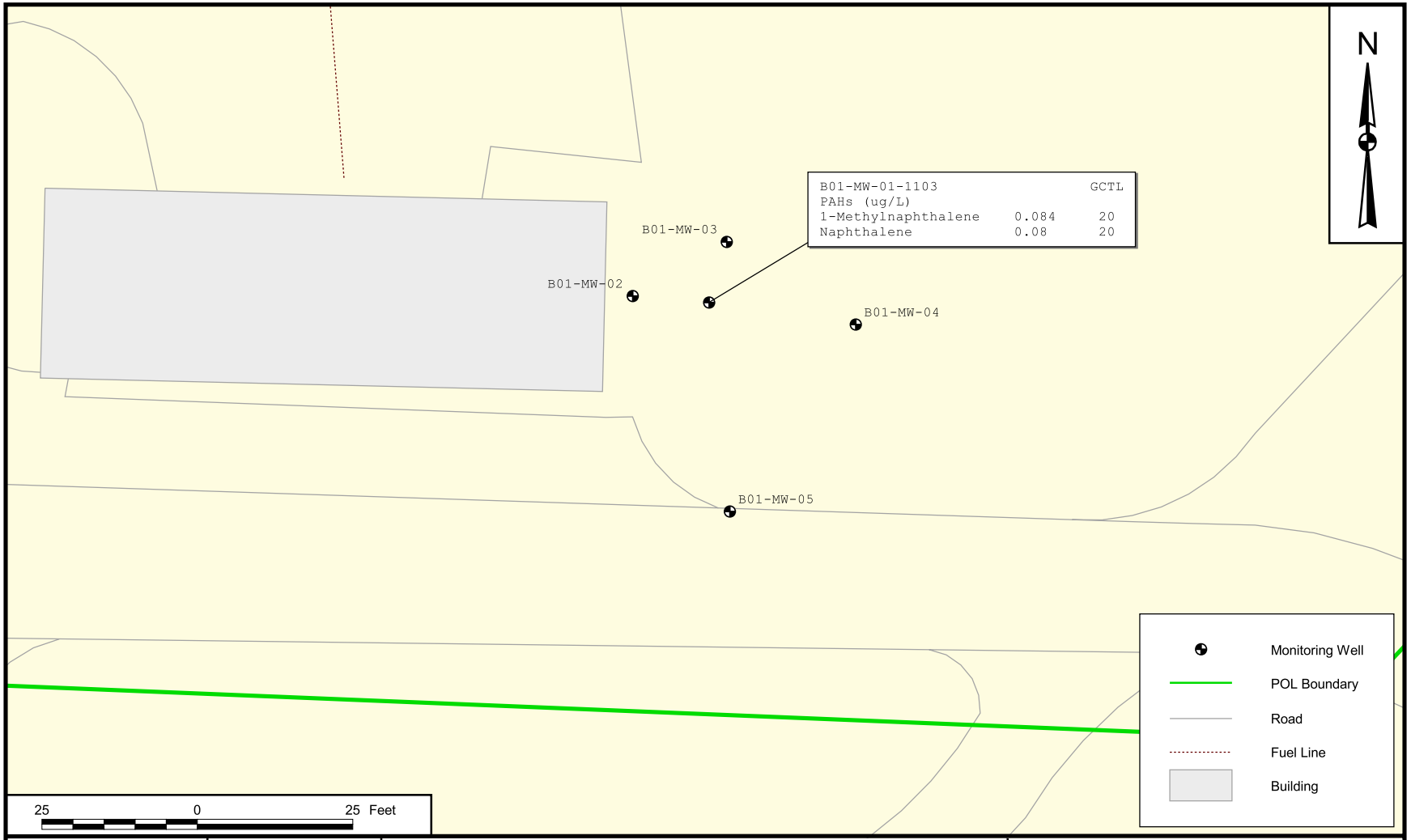

N
Storm Sewer
Utility Pole
POL Boundary
Road
Fence
Fuel Line
Building
Vegetation
150
0
150 Feet
BOCA CHICA HAWK MISSILE SITE B-01 MNA REPORT, NOVEMBER 2003
SITE LAYOUT
NAS KEY WEST
KEY WEST, FLORIDA
CONTRACT NUMBER
4779
APPROVED BY
DATE
APPROVED BY
DATE
FIGURE NO.
1 - 2
REV
0
DRAWN BY
A. JANOCHA
DATE
2/26/04
CHECKED BY
E. MCREE
DATE
2/26/04
COST/SCHEDULE-AREA
SCALE
AS NOTED
P:/GIS/KEYWEST_NAS/APR/BCHMS_GW_RPT.APR BC HAWK MISSILE SITE LAYOUT 2/26/04 AJ


N
Monitoring Well
Groundwater Flow Direction
POL Boundary
Potentiometric Contour
Inferred Potentiometric Contour
Road
Fuel Line
Vegetation
Note: Measurements collected on November 11, 2003.
B01-MW-01
3.68
B01-MW-02
2.43
B01-MW-03
2.44
B01-MW-04
2.38
B01-MW-05
2.48
2.5
3.0
3.5
Maintenance Building
Asphalt
25 0 25 Feet
BOCA CHICA HAWK MISSILE SITE B-01 MNA REPORT, NOVEMBER 2003
GROUNDWATER ELEVATION MAP
NAS KEY WEST
KEY WEST, FLORIDA
NAVAL AIR STATION KEY WEST FLORIDA
CONTRACT NUMBER
4779
APPROVED BY
DATE
APPROVED BY
DATE
FIGURE NO.
1 - 3
REV
0
DRAWN BY
A. JANOCHA
DATE
1/30/04
CHECKED BY
E. MCREE
DATE
2/26/04
COST/SCHEDULE-AREA
SCALE
AS NOTED
P:/GIS/KEYWEST_NAS/APR/BCHMS_GW_RPT.APR BC HAWK MISSILE GW ELEVATION LAYOUT 2/26/04 AJ

AIK-04-0021

1-8

CTO 0318



DRAWN BY / DATE	A. JANOCHA 1/30/04
CHECKED BY / DATE	E. MCREE 2/26/04
COST/SCHEDULE-AREA	
SCALE	AS NOTED

BOCA CHICA HAWK MISSILE SITE B-01 MNA REPORT, NOVEMBER 2003

ANALYTICAL RESULTS

NAS KEY WEST

KEY WEST, FLORIDA

CONTRACT NUMBER	4779
APPROVED BY / DATE	— / —
APPROVED BY / DATE	— / —
FIGURE NO.	1 - 4
REV	0

Rev. 0
02/27/04

P:/GIS/KEYWEST_NAS/APR/BCHMS_GW_RPT.APR BC HAWK MISSILE ANALYTICAL RESULTS LAYOUT 2/26/04 AJ

REFERENCES

BBL (Blasland, Bouck & Lee, Inc.). 2002. Site Assessment Reports, Former Hawk Missile Sites, Site G-01 – Geiger Key, Site B-01 – Boca Chica Key. Prepared for Naval Air Station Key West Public Works Department, Florida. February.

TtNUS (Tetra Tech NUS, Inc.). 2003. Abbreviated Contamination Assessment Plan for Site A-824 and Geiger Key Hawk Missile Site G-01; Monitored Natural Attenuation Sampling Plan for Boca Chica Hawk Missile Site B-01. Prepared for Department of the Navy, Southern Division Naval Facilities Engineering Command, Aiken, South Carolina. November.

APPENDIX A

NATURAL ATTENUATION MONITORING PLAN APPROVAL ORDER

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

May 3, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Byas Glover
Code 18410
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29419-9010

Subject: Natural Attenuation Monitoring Plan Approval Order
Former Hawk Missile Sites
Site B-01 Boca Chica Key
Key West, Florida
FDEP Facility ID# None

Dear Mr. Glover:

The Bureau of Waste Cleanup has completed the review of Natural Attenuation Monitoring Plan dated February 2002 (received February 27, 2002), submitted for the petroleum product discharge discovered at this site. Pursuant to Rule 62-770.690, Florida Administrative Code (F.A.C.), the Department of Environmental Protection (Department) approves the Natural Attenuation Monitoring Plan Pursuant to Rule 62-770.690(7), F.A.C., you are required to complete the monitoring program outlined below. The first sampling event should be performed within 60 days of receipt of this Natural Attenuation Monitoring Plan Approval Order (Order). Water-level measurements should be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody, cumulative summary table of the analytical results, site map(s) illustrating the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), must be submitted to the Department within 60 days of sample collection.

The monitoring wells to be sampled, the sampling parameters, and the sampling frequency for the first year are as follows:

Monitoring Wells	Contaminants of Concern	Frequency	Duration
MW-1, 3 and 5	PAHs	Semiannually	2 years

The approved Remedial Action by Natural Attenuation monitoring period is two years. The sampling frequency will be evaluated following the submittal of the first annual report to determine whether semiannual or annual sampling may be appropriate.

If concentrations of contaminants of concern in any of the designated wells increase above the action levels listed below, the well or wells must be resampled no later than 30 days after the initial

positive results are known. If the results of the resampling confirm the initial sampling results, then a proposal as described in Rule 62-770.690(7)(f), F.A.C., must be submitted to the Department.

Contaminated wells:
MW-1 and MW-3: 20 µg/L Benzo(b)fluoranthene, 20 ug/L Benzo(a) pyrene, 20 ug/L Dibenz(a,h) anthracene and 20 ug/L Indeno(1,2,3-cd)pyrene.

Perimeter well (temporary point of compliance):
MW-5: 0.2 µg/L Benzo(b)fluoranthene, 0.2 ug/L Benzo(a) pyrene, 0.2 ug/L Dibenz(a,h) anthracene and 0.2 ug/L Indeno(1,2,3-cd)pyrene.

If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are met at the end of the monitoring period, a Site Rehabilitation Completion Report, summarizing the monitoring program and containing documentation supporting the opinion that the cleanup objectives have been achieved, must be submitted as required in Rule 62-770.690, F.A.C. If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are not met following two years of monitoring, then a report summarizing the monitoring program must be submitted, including a proposal as described in Rule 62-770.690(7), F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative proceeding (hearing) is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

If you choose to accept the above decision by the Department about the Monitoring Plan Approval Order you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

If you disagree with the decision, you may do one of the following:

(1) File a petition for administrative hearing with the Department's Office of General Counsel within 21 days of receipt of this Order; or

(2) File a request for an extension of time to file a petition for hearing with the Department's Office of General Counsel within 21 days of receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) in

the Department's Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Mr. Byas Glover, shall mail a copy of the request to Mr. Byas Glover at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Mr. Byas Glover, shall mail a copy of the petition to Mr. Byas Glover at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Section 120.54(5)(b)4.a., F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the FDEP facility number, and the name and address of the facility;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by the petitioner, or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an order responding to supplemental information provided pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35,

Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your Natural Attenuation Monitoring Plan should be directed to Tracie L. Vaught at (850) 921-9988. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 488-9314. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,

Douglas A. Jones, Chief
Bureau of Waste Cleanup
Division of Waste Management

DAJ/tlv

File

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to §120.52 Florida Statutes,
with the designated Department Clerk, receipt
of which is hereby acknowledged.

Clerk (or Deputy Clerk) — Date: 5/3/02

APPENDIX B

LOG SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:	NAS KW - Boca Chica Hawk	**Project No.:**	CTO 318/ N4779
Location:	NAS KW, Florida	**Personnel:**	Emily McRee, Gary Braganza
Weather Conditions:	Sunny 75°F, very windy	**Measuring Device:**	Heron WLM
Tidally Influenced:	Yes X No ___	**Remarks:**	

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
B01-MW-01	11/11/03	1590	5.7	11.5	2.02	—	3.68	
B01-MW-02	11/11/03	1601	5.64	10.97	3.21	—	2.43	
B01-MW-03	11/11/03	1550	5.61	11.2	3.17	—	2.44	
B01-MW-04	11/11/03	1604	5.53	11.37	3.15	—	2.38	
B01-MW-05	11/11/03	1605	5.38	11.41	3.1	—	2.28	

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - BOCA CHICA HAWK
Project No.: N4779

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

Sample ID No.: B01-MW-01-1103
Sample Location: B01-MW-01
Sampled By: GB
C.O.C. No.: 3830
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/11/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 16:25								
Method:peristaltic/low flow	clear	6.7	0.23	28.2	2	1.5	0.1	

PURGE DATA:

Date: 11/11/03	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other Time
Method: peristaltic/low flow	300mL	6.6	0.21	28.2	4	2.0	0.1	16:00
Monitor Reading (ppm): 500	1500mL	6.7	0.25	28.2	4	1.7	0.1	16:05
Well Casing Diameter & Material	1500mL	6.7	0.24	28.2	1	1.6	0.1	16:10
Type: 2" PVC	1500	6.7	0.23	28.2	1	1.5	0.1	16:15
Total Well Depth (TD): 18.50	1500	6.7	0.23	28.2	2	1.5	0.1	16:20
Static Water Level (WL): 2.02								
One Casing Volume(gal/L): 1.5								
Start Purge (hrs): 15:50								
End Purge (hrs): 16:20								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 1.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PAHs	none	2 x 1L amber	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - BOCA CHICA HAWK
Project No.: N4779

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

Sample ID No.: B01-MW-03-1103
Sample Location: B01-MW-03
Sampled By: E. McKee
C.O.C. No.: 3530
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/11/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1630	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method:peristaltic/low flow	clear	6.9	0.48	27.8	17	1.7	0.3	

PURGE DATA:

Date: 11/11/03	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: peristaltic/low flow	1.3	7.0	0.45	27.5	55	4.6	0.2	1611
Monitor Reading (ppm): >2000	1.6	7.0	0.46	27.4	50	6.1	0.2	1615
Well Casing Diameter & Material	2.0	6.8	0.49	27.8	18	2.2	0.3	1619
Type: 2" PVC	2.3	6.9	0.48	27.8	17	1.6	0.3	1623
Total Well Depth (TD): 11.2	2.6	6.9	0.48	27.8	17	1.7	0.3	1626
Static Water Level (WL): 3.17								
One Casing Volume(gal/L): 1.3								
Start Purge (hrs): 1653								
End Purge (hrs): 1626								
Total Purge Time (min): 33								
Total Vol. Purged (gal/L): 26								

← switched Hanibas

11.26
3.17
8.09
0.16
48.18
8030
12848

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PAHs	none	2 x 1L amber	✓

OBSERVATIONS / NOTES:

Bz = 0.0 ppm
Well screen partially submerged
Horiba did not operate properly - changed to another (turbs went down)

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

APPENDIX C

VALIDATION REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 6, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PAH/PEST/PCB/TPH**
CTO 318, NAS KEY WEST
SDG 3181

SAMPLES: 19/Aqueous

FC-MW-05-1103*	FC-MW-06-1103*	FC-MW-22-1103*
G01-GS-01-1103*	G01-GS-02-1103*	G01-GS-03-1103*
G01-GS-04-1103*	G01-GS-05-1103*	G01-GS-06-1103*
G01-GS-07-1103*	G01-GS-08-1103*	G01-GS-09-1103*
G01-GS-10-1103*	KWDUP-01-1103*	KW-RINS-01-1103
KWTB-111303*	TB111103*	B01-MW-01-1103
B01-MW-03-1103		

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 3181 consists of fifteen (15) environmental aqueous samples, one (1) rinse blank, one (1) field duplicate, and two (2) trip blanks. The samples denoted with an asterisk (*) were analyzed for priority pollutant VOCs, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE). Sample KW-RINS-01-1103 was analyzed for TCL VOC, SVOC, and PEST/PCB. Samples FC-MW-05-1103, FC-MW-06-1103, FC-MW-22-1103, and KWDUP-01-1103 were analyzed for ethylene dibromide (EDB) and total petroleum hydrocarbon (TPH) subclassification. Samples B01-MW-01-1103, B01-MW-03-1103, FC-MW-05-1103, FC-MW-06-1103, FC-MW-22-1103, and KWDUP-01-1103 were analyzed for polynuclear aromatic hydrocarbons (PAH). Sample KWDUP-01-1103 was also analyzed for TPH. The field duplicate pair included in this SDG is KWDUP-01-1103 and FC-MW-06-1103.

The samples were collected by Tetra Tech NUS on November 11 and 13, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A, and 8082, EPA Method 504.1, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
* • Initial and continuing calibration
• Laboratory method and field quality control blank results
• Surrogate recoveries
• Matrix Spike recoveries
* • Field duplicate precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The continuing calibration performed on November 21 at 17:36 exceeded the 25% difference quality control criteria for chloromethane, bromomethane, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and acetone. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The continuing calibration performed on November 22 at 08:33 exceeded the 25% difference quality control criteria for chloromethane and bromomethane. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Chloroform	0.3 µg/L	1.5 µg/L
o-Xylene	0.1 µg/L	0.5 µg/L
m,p-Xylene	0.3 µg/L	1.5 µg/L
total-Xylene	0.4 µg/L	2.0 µg/L
Toluene[1]	3.0 µg/L	15 µg/L

1 – Detected in the trip blank

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for the aforementioned compounds below the blank action level were qualified as non-detected, (U). Field quality control blanks were not qualified due to method blank contamination.

The blank spike (WG4601-LCS) exceeded the percent recovery quality control criteria for acetone and 2-butanone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4738-LCS) exceeded the percent recovery quality control criteria for 2-butanone, 1,1-dichloroethene, and methylene chloride. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spikes (WG4738-LCS and WG4777-LCS) were below the percent recovery quality control criteria for 2-chloroethylvinyl ether. All non-detected results for 2-chloroethylvinyl ether were qualified as estimated (UJ).

The blank spike (WG4754-LCS) exceeded the percent recovery quality control criteria for 2-butanone, acetone, and 2-hexanone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4777-LCS) exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The percent recovery of 2-chloroethylvinylether in the MS/MSD of sample FC-MW-22-1103 was 0%. The result for 2-chloroethylvinylether was rejected (UR) in sample FC-MW-22-1103.

The percent recovery of bromomethane in the MS/MSD of samples FC-MW-22-1103 was below the quality control criterion. No qualifications were made on this basis because the LCSs were compliant.

The percent recovery of ethylbenzene and 1,1,2-trichloroethane in the MS/MSD of sample FC-MW-22-1103 exceeded the quality control criteria. The positive result for ethylbenzene was qualified as estimated (J) in sample FC-MW-22-1103.

EDB

The surrogate tetrachloro-m-xylene exceeded the percent recovery quality control criteria on both columns in all samples. No qualifications were made on this basis because all results were non-detected.

The LCSD exceeded the percent recovery quality control criteria for EDB. The LCS/LCSD also exceeded the relative percent difference (RPD) quality control criteria for EDB. No qualifications were made on this basis because the LCS was compliant.

The percent recovery of EDB exceeded the quality control criteria in the MS/MSD of sample FC-MW-22-1103. No qualifications were made on this basis because all results for EDB were non-detected.

Semivolatile

The initial calibration performed on November 12 exceeded the 30% relative standard deviation (RSD) quality control criteria for 2,4-dinitrophenol and diethylphthalate. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The continuing calibrations performed on November 20 and 26 exceeded the 25% difference quality control criteria for diethylphthalate. No qualifications were made on this basis because the results for diethylphthalate were non-detected.

The percent recovery of surrogates 2-fluorophenol and nitrobenzene-d5 were <10% in sample KW-RINS-01-1103. The sample was re-extracted outside of holding time and re-analyzed. The percent recovery of 2-fluorophenol was <10% and the recovery of nitrobenzene-d5 was below the quality control criteria. The re-extracted sample was used for validation. All results in the acid fraction were rejected (UR) for surrogate recovery non-compliance and all results in the base/neutral fraction were qualified as estimated (UJ) due to holding time non-compliance.

The percent recoveries of 2-nitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol were below the quality control criteria in the blank spike duplicate (WG4553-LCSD). No qualifications were made on this basis because the blank spike was compliant.

The percent recovery of 3,3'-dichlorobenzidine exceeded the quality control criteria in the blank spike and blank spike duplicate (WG4553-LCS and WG4553-LCSD) and bis(2-ethylhexyl)phthalate exceeded the criteria in the blank spike. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The percent recovery of 2,4-dinitrophenol was below the quality control criteria in the blank spike (WG4766-LCS). No qualifications were made on this basis because the blank spike duplicate was compliant.

The percent recovery of 3,3'-dichlorobenzidine exceeded the quality control criteria in the blank spike and blank spike duplicate (WG4766-LCS and WG4766-LCSD). No qualifications were made on this basis because the result for 3,3'-dichlorobenzidine was non-detected.

PAH

The continuing calibration performed on November 17 at 11:58 exceeded the 25% difference quality control criteria for pyrene. No qualifications were made on this basis because all results for pyrene were non-detected.

The percent recovery of indeno(1,2,3-cd)pyrene was below the percent recovery quality control criterion in the MS/MSD of sample FC-MW-22-1103. The non-detected result for indeno(1,2,3-cd)pyrene was qualified as estimated (UJ) in sample FC-MW-22-1103.

The percent recoveries of benzo(a)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were below the quality control criteria in the MSD of sample FC-MW-22-1103. No qualifications were made on this basis because the MS was compliant.

Sample FC-MW-22-1103 was analyzed at a 100X dilution because the concentration of target analytes exceeded the linear calibration range of the instrument. The sample was not analyzed un-diluted. This accounts for the elevated reporting limits for all non-detected results in sample FC-MW-22-1103.

All surrogates exhibited 0% recovery in sample FC-MW-22-1103. No qualifications were made on this basis because the sample was analyzed at a 100X dilution.

Pesticide

The continuing calibration performed on December 3 at 08:46 exceeded the 15% difference quality control criteria for gamma-BHC on the RTX-CLPI column. No qualifications were made on this basis because the result for gamma-BHC was non-detected.

The surrogate decachlorobiphenyl was below the percent recovery quality control criteria on both columns in sample KW-RINS-01-1103. The non-detected results were qualified as estimated (UJ) in sample KW-RINS-01-1103.

The blank spike was below the percent recovery quality control criteria for endosulfan I and endosulfan II. The non-detected results for the aforementioned compounds were qualified as estimated (UJ) in sample KW-RINS-01-1103.

PCB

The continuing calibration performed on December 1 at 13:37 exceeded the 15% difference quality control criteria for Aroclor 1260 on both columns. No qualifications were made on this basis because the result for Aroclor 1260 was non-detected.

TPH

The surrogate o-terphenyl was below the percent recovery quality control criteria in samples FC-MW-06-1103 and KWDUP-01-1103. No qualifications were made on this basis because all recoveries were at least 70% and the other surrogate was compliant.

The percent recovery of TPH exceeded the quality control criteria in the LCS/MS/MSD. The positive result for TPH was qualified as estimated (J) in sample FC-MW-22-1103.

The results in the EDD for TPH were reported in ug/L and the results for TPHCWG were reported in mg/L. The validator adjusted the TPH results to be reported as mg/L in the database.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

Ethylbenzene was detected in the rinse blank. No qualifications were made on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on method blank contamination, blank spike non-compliances, and surrogate recovery non-compliances.

Other Factors Affecting Data Quality: Qualifications were made based on MS/MSD non-compliances.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F. Spada III

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-05-1103	nsample	FC-MW-05-1103	nsample	FC-MW-06-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-4	lab_id	WT2841-4	lab_id	WT2841-1
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	A
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-06-1103
samp_date	11/11/2003
lab_id	WT2841-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	FC-MW-22-1103
samp_date	11/11/2003
lab_id	WT2841-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	D
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	A
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.5	J	DP
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	FC-MW-22-1103
samp_date	11/11/2003
lab_id	WT2841-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-01-1103	nsample	G01-GS-02-1103	nsample	G01-GS-03-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-1	lab_id	WT2879-2	lab_id	WT2879-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-04-1103	nsample	G01-GS-05-1103	nsample	G01-GS-06-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-4	lab_id	WT2879-5	lab_id	WT2879-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.7	J	P
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	2		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	6		
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2		
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-07-1103	nsample	G01-GS-08-1103	nsample	G01-GS-09-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-7	lab_id	WT2879-8	lab_id	WT2879-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U		1,1,1-TRICHLOROETHANE	1	U		1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1,1,2,2-TETRACHLOROETHANE	1	U		1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U		1,1,2-TRICHLOROETHANE	1	U		1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U		1,1-DICHLOROETHANE	1	U		1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U		1,1-DICHLOROETHENE	1	U		1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U		1,2-DICHLOROETHANE	1	U		1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U		1,2-DICHLOROPROPANE	1	U		1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E	2-CHLOROETHYL VINYL ETHER	1	UJ	E	2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U		BENZENE	1	U		BENZENE	5		
BROMODICHLOROMETHANE	1	U		BROMODICHLOROMETHANE	1	U		BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U		BROMOFORM	1	U		BROMOFORM	1	U	
BROMOMETHANE	2	U		BROMOMETHANE	2	U		BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U		CARBON TETRACHLORIDE	1	U		CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U		CHLOROBENZENE	1	U		CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U		CHLORODIBROMOMETHANE	1	U		CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U		CHLOROETHANE	2	U		CHLOROETHANE	2	U	
CHLOROFORM	1	U		CHLOROFORM	1	U		CHLOROFORM	1	U	
CHLOROMETHANE	2	U		CHLOROMETHANE	2	U		CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U		CIS-1,2-DICHLOROETHENE	1	U		CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U		CIS-1,3-DICHLOROPROPENE	1	U		CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.3	J	P	ETHYLBENZENE	0.2	J	P	ETHYLBENZENE	26		
M+P-XYLENES	2	U	A	M+P-XYLENES	2	U	A	M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U		METHYL TERT-BUTYL ETHER	2	U		METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U		METHYLENE CHLORIDE	2	U		METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U		O-XYLENE	1	U		O-XYLENE	1	U	
TETRACHLOROETHENE	1	U		TETRACHLOROETHENE	1	U		TETRACHLOROETHENE	1	U	
TOLUENE	1	U		TOLUENE	1	U		TOLUENE	1	U	B
TOTAL XYLENES	3	U		TOTAL XYLENES	3	U		TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U		TRANS-1,2-DICHLOROETHENE	1	U		TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U		TRANS-1,3-DICHLOROPROPENE	1	U		TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U		TRICHLOROETHENE	1	U		TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U		VINYL CHLORIDE	2	U		VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-10-1103	nsample	KWDUP-01-1103	nsample	KWDUP-01-1103
samp_date	11/13/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2879-10	lab_id	WT2841-2	lab_id	WT2841-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	FC-MW06-1103	DUP_OF:	FC-MW06-1103

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	11		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	21		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	KW-RINS-01-1103	nsample	KW-RINS-01-1103	nsample	KWTB-111303
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/6/2003
lab_id	WT2841-5	lab_id	WT2841-5	lab_id	WT2879-11
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	44		
M+P-XYLENES	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.7	J	P
TOTAL 1,2-DICHLOROETHENE	2	U	

Parameter	Result	Val Qual	Qual Code
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	TB111103
samp_date	11/11/2003
lab_id	WT2841-8RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	0.3	J	P
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	0.3	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3		
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OS

nsample	KW-RINS-01-1103	nsample	KW-RINS-01-1103
samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-5	lab_id	WT2841-5
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	UJ	H
1,2-DICHLOROBENZENE	10	UJ	H
1,3-DICHLOROBENZENE	10	UJ	H
1,4-DICHLOROBENZENE	10	UJ	H
2,2'-OXYBIS(1-CHLOROPROPANE)	10	UJ	H
2,4,5-TRICHLOROPHENOL	25	UR	R
2,4,6-TRICHLOROPHENOL	10	UR	R
2,4-DICHLOROPHENOL	10	UR	R
2,4-DIMETHYLPHENOL	10	UR	R
2,4-DINITROPHENOL	25	UR	R
2,4-DINITROTOLUENE	10	UJ	H
2,6-DINITROTOLUENE	10	UJ	H
2-CHLORONAPHTHALENE	10	UJ	H
2-CHLOROPHENOL	10	UR	R
2-METHYLNAPHTHALENE	10	UJ	H
2-METHYLPHENOL	10	UR	R
2-NITROANILINE	25	UJ	H
2-NITROPHENOL	10	UR	R
3,3'-DICHLOROBENZIDINE	10	UJ	H
3-NITROANILINE	25	UJ	H
4,6-DINITRO-2-METHYLPHENOL	25	UR	R
4-BROMOPHENYL PHENYL ETHER	10	UJ	H
4-CHLORO-3-METHYLPHENOL	10	UR	R
4-CHLOROANILINE	10	UJ	H
4-CHLOROPHENYL PHENYL ETHER	10	UJ	H
4-METHYLPHENOL	10	UR	R
4-NITROANILINE	25	UJ	H
4-NITROPHENOL	25	UR	R
ACENAPHTHENE	10	UJ	H
ACENAPHTHYLENE	10	UJ	H
ANTHRACENE	10	UJ	H
BENZO(A)ANTHRACENE	10	UJ	H

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	UJ	H
BENZO(B)FLUORANTHENE	10	UJ	H
BENZO(G,H,I)PERYLENE	10	UJ	H
BENZO(K)FLUORANTHENE	10	UJ	H
BIS(2-CHLOROETHOXY)METHANE	10	UJ	H
BIS(2-CHLOROETHYL)ETHER	10	UJ	H
BIS(2-ETHYLHEXYL)PHTHALATE	10	UJ	H
BUTYL BENZYL PHTHALATE	10	UJ	H
CARBAZOLE	10	UJ	H
CHRYSENE	10	UJ	H
DIBENZO(A,H)ANTHRACENE	10	UJ	H
DIBENZOFURAN	10	UJ	H
DIETHYL PHTHALATE	10	UJ	H
DIMETHYL PHTHALATE	10	UJ	H
DI-N-BUTYL PHTHALATE	10	UJ	H
DI-N-OCTYL PHTHALATE	10	UJ	H
FLUORANTHENE	10	UJ	H
FLUORENE	10	UJ	H
HEXACHLOROBENZENE	10	UJ	H
HEXACHLOROBUTADIENE	10	UJ	H
HEXACHLOROCYCLOPENTADIENE	10	UJ	H
HEXACHLOROETHANE	10	UJ	H
INDENO(1,2,3-CD)PYRENE	10	UJ	H
ISOPHORONE	10	UJ	H
NAPHTHALENE	10	UJ	H
NITROBENZENE	10	UJ	H
N-NITROSO-DI-N-PROPYLAMINE	10	UJ	H
N-NITROSODIPHENYLAMINE	10	UJ	H
PENTACHLOROPHENOL	25	UR	R
PHENANTHRENE	10	UJ	H
PHENOL	10	UR	R
PYRENE	10	UJ	H

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	B01-MW-01-1103	nsample	B01-MW-03-1103	nsample	FC-MW-05-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-7	lab_id	WT2841-3	lab_id	WT2841-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.084	J	P
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.08	J	P
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	FC-MW-06-1103	nsample	FC-MW-22-1103	nsample	KWDUP-01-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-1	lab_id	WT2841-6DL	lab_id	WT2841-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	100.0	Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.088	J	P
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.085	J	P
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	27		
2-METHYLNAPHTHALENE	59		
ACENAPHTHENE	19	U	
ACENAPHTHYLENE	19	U	
ANTHRACENE	19	U	
BENZO(A)ANTHRACENE	19	U	
BENZO(A)PYRENE	19	U	
BENZO(B)FLUORANTHENE	19	U	
BENZO(G,H,I)PERYLENE	19	U	
BENZO(K)FLUORANTHENE	19	U	
CHRYSENE	19	U	
DIBENZO(A,H)ANTHRACENE	19	U	
FLUORANTHENE	19	U	
FLUORENE	19	U	
INDENO(1,2,3-CD)PYRENE	19	UJ	D
NAPHTHALENE	190		
PHENANTHRENE	19	U	
PYRENE	19	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	KW-RINS-01-1103
samp_date	11/11/2003
lab_id	WT2841-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.1	UJ	R
4,4'-DDE	0.1	UJ	R
4,4'-DDT	0.1	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.5	U	
AROCLOR-1221	0.5	U	
AROCLOR-1232	0.5	U	
AROCLOR-1242	0.5	U	
AROCLOR-1248	0.5	U	
AROCLOR-1254	0.5	U	
AROCLOR-1260	0.5	U	
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.1	UJ	R
ENDOSULFAN I	0.05	UJ	ER
ENDOSULFAN II	0.1	UJ	ER
ENDOSULFAN SULFATE	0.1	UJ	R
ENDRIN	0.1	UJ	R
ENDRIN ALDEHYDE	0.1	UJ	R
ENDRIN KETONE	0.1	UJ	R
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	R
TOXAPHENE	1	UJ	R

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	FC-MW-05-1103	nsample	FC-MW-06-1103	nsample	FC-MW-22-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	C311437*3	lab_id	C311437*1	lab_id	C311437*4
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	3.1		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	KW-DUP-01-1103
samp_date	11/11/2003
lab_id	C311437*2
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	

nsample	KWDUP-01-1103
samp_date	11/11/2003
lab_id	WT2841-2
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		90%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*133%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*160%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.4	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.4
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.5	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*162%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-1
Client ID: G01-GS-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.6	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-2
Client ID: G01-GS-02-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-3
Client ID: G01-GS-03-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.4	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-4
Client ID: G01-GS-04-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.7	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.5	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-5
Client ID: G01-GS-05-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.[illegible]
71-43-2	Benzene		2	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.[illegible]
79-01-6	Trichloroethene	U	1	1.0	1	1	0.[illegible]
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.[illegible]
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.4	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.[illegible]
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-6
Client ID: G01-GS-06-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.3	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.7
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.7
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.9	1.0	3	3	0.3
	m+p-Xylenes	JB	0.6	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.3	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-7
Client ID: G01-GS-07-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-8
Client ID: G01-GS-08-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.[illegible]
79-01-6	Trichloroethene	U	1	1.0	1	1	0
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	[illegible]
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-9
Client ID: G01-GS-09-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		5	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.4
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		26	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-10
Client ID: G01-GS-10-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	J	0.6	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		11	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.7
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		21	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*169%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
67-66-3	Chloroform	U	1	1.0	1	1	0.2
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
75-25-2	Bromoform	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-88-3	Toluene	J	0.7	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		44	1.0	1	1	0.1
100-42-5	Styrene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/06/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-11
Client ID: KWTB-111303
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.[illegible]
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-8RA
Client ID: TB111103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	2
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	1
95-57-8	2-Chlorophenol	U	10	1.0	10	10	2
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.6
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.8
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
95-48-7	2-Methylphenol	U	10	1.0	10	10	1
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	1
106-44-5	4-Methylphenol	U	10	1.0	10	10	2
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	2
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	2
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	0.8
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.9
91-20-3	Naphthalene	U	10	1.0	10	10	0.9
106-47-8	4-Chloroaniline	U	10	1.0	10	10	1
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	2
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	1
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	1
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	1
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	2
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	2
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.8
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.8
208-96-8	Acenaphthylene	U	10	1.0	10	10	
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	
99-09-2	3-Nitroaniline	U	25	1.0	25	25	2
83-32-9	Acenaphthene	U	10	1.0	10	10	1
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
132-64-9	Dibenzofuran	U	10	1.0	10	10	1.0
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.7
84-66-2	Diethylphthalate	U	10	1.0	10	10	0.6
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	1
86-73-7	Fluorene	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	2
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	7
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	1
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.7
87-86-5	Pentachlorophenol	U	25	1.0	25	25	5
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	0.8
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	2
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.6
218-01-9	Chrysene	U	10	1.0	10	10	0.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	9
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	0.[illegible]
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.[illegible]
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9
367-12-4	2-Fluorophenol		* 7%				
13127-88-3	Phenol-D6		39%				
4165-60-0	Nitrobenzene-D5		* 0%				
321-60-8	2-Fluorobiphenyl		83%				
118-79-6	2,4,6-Tribromophenol		31%				
1718-51-0	Terphenyl-D14		126%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5RE
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	2
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	1
95-57-8	2-Chlorophenol	U	10	1.0	10	10	2
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.6
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.8
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
95-48-7	2-Methylphenol	U	10	1.0	10	10	1
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	1
106-44-5	4-Methylphenol	U	10	1.0	10	10	2
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	2
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	2
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	0.9
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	2
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.9
91-20-3	Naphthalene	U	10	1.0	10	10	0.9
106-47-8	4-Chloroaniline	U	10	1.0	10	10	1
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	2
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	1
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	1
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	1
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	2
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	2
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.8
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.8
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.9
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	2
99-09-2	3-Nitroaniline	U	25	1.0	25	25	2
83-32-9	Acenaphthene	U	10	1.0	10	10	1
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
132-64-9	Dibenzofuran	U	10	1.0	10	10	1.0
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.7
84-66-2	Diethylphthalate	U	10	1.0	10	10	0.6
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	1
86-73-7	Fluorene	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	2
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	7
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5RE
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	1
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.7
87-86-5	Pentachlorophenol	U	25	1.0	25	25	5
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	0.8
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	2
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.6
218-01-9	Chrysene	U	10	1.0	10	10	0.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	9
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.[illegible]
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	[illegible]
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9
367-12-4	2-Fluorophenol		* 1%				
13127-88-3	Phenol-D6		14%				
4165-60-0	Nitrobenzene-D5		* 18%				
321-60-8	2-Fluorobiphenyl		93%				
118-79-6	2,4,6-Tribromophenol		38%				
1718-51-0	Terphenyl-D14		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-7
Client ID: B01-MW-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.080	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	[illegible]
90-12-0	1-Methylnaphthalene	J	0.084	1.0	0.20	0.20	[illegible]
7297-45-2	2-Methylnaphthalene-d10		70%				
81103-79-9	Fluorene-d10		66%				
1718-52-1	Pyrene-d10		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-3
Client ID: B01-MW-03-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.1[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.[illegible]
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		52%				
1718-52-1	Pyrene-d10		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	[illegible]
7297-45-2	2-Methylnaphthalene-d10		70%				
81103-79-9	Fluorene-d10		55%				
1718-52-1	Pyrene-d10		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.085	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.0[illegible]
90-12-0	1-Methylnaphthalene	J	0.088	1.0	0.20	0.20	0.08[illegible]
7297-45-2	2-Methylnaphthalene-d10		66%				
81103-79-9	Fluorene-d10		57%				
1718-52-1	Pyrene-d10		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6DL
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		190	100	0.20	19	4.8
91-57-6	2-Methylnaphthalene		59	100	0.20	19	7.6
208-96-8	Acenaphthylene	U	19	100	0.20	19	4.8
83-32-9	Acenaphthene	U	19	100	0.20	19	7.6
86-73-7	Fluorene	U	19	100	0.20	19	5.7
85-01-8	Phenanthrene	U	19	100	0.20	19	7.6
120-12-7	Anthracene	U	19	100	0.20	19	7.6
206-44-0	Fluoranthene	U	19	100	0.20	19	10
129-00-0	Pyrene	U	19	100	0.20	19	8.6
56-55-3	Benzo(a)anthracene	U	19	100	0.20	19	11
218-01-9	Chrysene	U	19	100	0.20	19	6.7
205-99-2	Benzo(b)fluoranthene	U	19	100	0.20	19	8.6
207-08-9	Benzo(k)fluoranthene	U	19	100	0.20	19	7.6
50-32-8	Benzo(a)pyrene	U	19	100	0.20	19	8.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	19	100	0.20	19	9.5
53-70-3	Dibenzo(a,h)anthracene	U	19	100	0.20	19	14
191-24-2	Benzo(g,h,i)perylene	U	19	100	0.20	19	7.3
90-12-0	1-Methylnaphthalene		27	100	0.20	19	7.3
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.1[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.09[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		80%				
81103-79-9	Fluorene-d10		69%				
1718-52-1	Pyrene-d10		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/12/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4477
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.024
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.021
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.023
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.040
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.021
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.028
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.022
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.017
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.027
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.016
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.017
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.027
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.015
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.028
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.02[illegible]
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.0[illegible]
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.0[illegible]
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.88
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.018
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.018
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.019
877-09-8	Tetrachloro-m-Xylene		70%				
2051-24-3	Decachlorobiphenyl		38%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/12/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4487
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	0.50	1.0	0.50	0.50	0.11
11104-28-2	Aroclor-1221	U	0.50	1.0	0.50	0.50	0.28
11141-16-5	Aroclor-1232	U	0.50	1.0	0.50	0.50	0.30
53469-21-9	Aroclor-1242	U	0.50	1.0	0.50	0.50	0.24
12672-29-6	Aroclor-1248	U	0.50	1.0	0.50	0.50	0.12
11097-69-1	Aroclor-1254	U	0.50	1.0	0.50	0.50	0.15
11096-82-5	Aroclor-1260	U	0.50	1.0	0.50	0.50	0.11
877-09-8	Tetrachloro-m-xylene		77%				
2051-24-3	Decachlorobiphenyl		* 37%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		116%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		88%				
	O-Terphenyl		* 72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3100	1.0	500	500	270
	n-Triacontane-D62		158%				
	O-Terphenyl		121%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		87%				
	O-Terphenyl		* 70%				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
11437-1	FC-MW-06-1103	Liquid	11/14/03	11/11/03 11:50	
11437-2	KW-DUP-01-1103	Liquid	11/14/03	11/11/03	
11437-3	FC-MW-05-1103	Liquid	11/14/03	11/11/03 14:15	
11437-4	FC-MW-22-1103	Liquid	11/14/03	11/11/03 11:35	

Parameter	Units	Lab Sample IDs 11437-1	11437-2	11437-3	11437-4
TPH-WG-ALI (TPHCWG)					
C5-C6 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>/= C6-C8 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C8-C10 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C12-C16 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C16-C35 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
Dilution Factor		1	1	1	1
Prep Date		11/17/03	11/17/03	11/17/03	11/17/03
Analysis Date		11/18/03	11/18/03	11/18/03	11/18/03
Batch ID		GEW042	GEW042	GEW042	GEW042
Prep Method		TPHCWG	TPHCWG	TPHCWG	TPHCWG
Analyst		IE	IE	IE	IE
Quantitation Factor		1.0	1.0	1.0	1.0
TPH-WG-ARO (TPHCWG)					
>C5-C7 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C7-C8 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C8-C10 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C12-C16 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C16-C21 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C21-C35 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
Dilution Factor		1	1	1	1
Prep Date		11/17/03	11/17/03	11/17/03	11/17/03
Analysis Date		11/18/03	11/18/03	11/18/03	11/18/03
Batch ID		GEW042	GEW042	GEW042	GEW042
Prep Method		TPHCWG	TPHCWG	TPHCWG	TPHCWG
Analyst		IE	IE	IE	IE
Quantitation Factor		1.0	1.0	1.0	1.0

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	FD102803-01	SD06-MW06-01	RPD	DIFFERENCE
1-Methylnaphthalene	0.2U	0.088	#VALUE!	#VALUE!
Naphthalene	0.2U	0.085	#VALUE!	#VALUE!

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-05-1103	WT2879-5	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-10-1103	WT2879-10	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-09-1103	WT2879-9	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-08-1103	WT2879-8	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	KWTB-111303	WT2879-11	NM	11/6/2003	11/17/2003	11/17/2003	11	0	11
OV	%	G01-GS-06-1103	WT2879-6	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	TB111103RA	WT2841-8RA	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-04-1103	WT2879-4	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-03-1103	WT2879-3	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-02-1103	WT2879-2	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-01-1103	WT2879-1	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMPLE_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-07-1103	WT2879-7	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-05-1103	WT2879-5	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	KWTB-111303	WT2879-11	NM	11/6/2003	11/17/2003	11/17/2003	11	0	11
OV	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-10-1103	WT2879-10	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-09-1103	WT2879-9	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-08-1103	WT2879-8	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-06-1103	WT2879-6	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	TB111103RA	WT2841-8RA	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-04-1103	WT2879-4	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-03-1103	WT2879-3	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-02-1103	WT2879-2	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-01-1103	WT2879-1	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-GS-07-1103	WT2879-7	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	KW-RINS-01-1103	WT2841-5RE	NM	11/11/2003	11/24/2003	11/26/2003	13	2	15
OS	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/15/2003	11/20/2003	4	5	9
PAH ~~OS~~	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	B01-MW-03-1103	WT2841-3	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	B01-MW-01-1103	WT2841-7	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
OS	UG/L	KW-RINS-01-1103	WT2841-5RE	NM	11/11/2003	11/24/2003	11/26/2003	13	2	15
OS	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/15/2003	11/20/2003	4	5	9
PAH ~~OS~~	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	B01-MW-03-1103	WT2841-3	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	B01-MW-01-1103	WT2841-7	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCS7	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/3/2003	1	21	22
↓	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/3/2003	1	21	22

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/2/2003	1	20	21
PCB	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/2/2003	1	20	21

HOLDTIME

SDG C311437

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	MG/L	KW-DUP-01-1103	C311437*2	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-22-1103	C311437*4	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-06-1103	C311437*1	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-05-1103	C311437*3	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO318-1
WT2841, WT2879
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on November 12 and 14, 2003 and were logged in under Katahdin Analytical Services work order number WT2841 and WT2879 for a hardcopy due date of December 1, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT2841-1	FC-MW-06-1103
WT2841-2	KWDUP-01-1103
WT2841-3	B01-MW-03-1103
WT2841-4	FC-MW-05-1103
WT2841-5	KW-RINS-01-1103
WT2841-6	FC-MW-22-1103
WT2841-7	B01-MW-01-1103
WT2841-8	TB111103
WT2879-1	G01-GS-01-1103
WT2879-2	G01-GS-02-1103
WT2879-3	G01-GS-03-1103
WT2879-4	G01-GS-04-1103
WT2879-5	G01-GS-05-1103
WT2879-6	G01-GS-06-1103
WT2879-7	G01-GS-07-1103
WT2879-8	G01-GS-08-1103
WT2879-9	G01-GS-09-1103
WT2879-10	G01-GS-10-1103
WT2879-11	KWTB-111303

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.

Organics Laboratory

The samples of SDG CTO318-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, U.S. EPA and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995) for the specific method listed below or the Report of Analysis. Sample WT2841-6 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8270C SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The MS and MSD had recoveries for naphthalene and 2-methylnaphthalene that were not calculable because the concentrations for those analytes in the native sample were greater than those in the MS and MSD. The MS and MSD had low recoveries for the spiked analyte indeno(1,2,3-cd)pyrene. The MSD also had low recoveries for benzo(a)pyrene, dibenzo(a,h) anthracene and benzo(g,h,i)perylene. Since the associated LCS was acceptable, therefore indicating a possible matrix effect, the samples were not reanalyzed.

8270C Analysis

Sample WT2841-5 had low recoveries for the surrogates 2-fluorophenol and nitrobenzene-D5, which were outside the laboratory established acceptance limits. The sample was reextracted six days out of hold time. The reextracted sample also had low recoveries for 2-fluorophenol and nitrobenzene-D5, confirming a matrix effect.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

There was one initial calibration performed for this SDG which was analyzed on the U instrument on 11/12/03. This calibration had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analytes 2,4-dinitrophenol and diethylphthalate failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model. Since the associated sample did not detect these analytes above the MDL, the samples were not reanalyzed.

504.1 Analysis:

Samples WT2841-1, 2, 4, 6, the method blank WG4775-1, the laboratory control sample (LCS) WG4775-2 the laboratory control duplicate sample (LCSD) WG4775-3, the matrix spike sample (MS) WG4775-4 and the matrix spike sample duplicate WG4775-5 (MS) had recoveries for the surrogate TCMX that were high and outside of the laboratory established acceptance limits on both channels. Since a high recovery would indicate a high bias and the target analyte EDB was not detected in any samples above the MDL, the samples were not reextracted.

The LCSD WG4775-3, MS WG4775-4, MSD WG4775-5 had recoveries for the analyte EDB that were high and outside the laboratory established acceptance limits. Since a high recovery would indicate a high bias and the target analyte EDB was not detected in any samples above the MDL, the samples were not reextracted.

8081 Analysis

The closing calibration verification standard (CV) (file 8TL1078) had a low response for gamma-BHC on the A channel, which resulted in a %D that was outside of the method acceptance limit of 15%. Since the response on the confirmation channel was acceptable and the associated samples did not detect gamma-BHC above the MDL, the samples were not reanalyzed.

The LCS WG4477-2 had low recoveries for the spiked analytes endosulfan I and endosulfan II, which were outside of the laboratory established acceptance limits.

8082 Analysis

Sample WT2841-5 had low recoveries for the surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. Since the recovery for TCX was within the acceptance limits on both channels, the samples were not reanalyzed.

The independent calibration check standard had a high recovery of Aroclor 1260 on channel A, which resulted in a %D that was outside of the method acceptance limit of 15%. Aroclor 1260 was within criteria on channel B.

FL-PRO Analysis

The samples WT2841-1, and 2 and the matrix spike duplicates, WG4497-3 and 4, had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

The laboratory control sample, WG4497-2, and the matrix spike sample duplicates, WG4497-3 and 4, had PRO recoveries that were high and outside of the method acceptance limits. This is possibly due to an inadvertent addition of twice the amount of spiking solution during the extraction process.

The calibration verification standards (file CTK2044 and CTK2057) had a low response for the surrogate, o-terphenyl, which resulted in %D's that were above the method acceptance limit of 25%.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO318-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WT2841-(1-2, 4-6) were digested for ICP analysis on 11/18/03 (QC Batch TK18ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WT2841-6 was prepared with duplicate matrix spiked aliquots.

ICP analyses of SDG CTO318-1 sample digestates were performed using a Thermo Jarrell Ash (TJA) 61E ICP spectrometer and a TJA Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample No. WT2841-5 was digested for mercury analysis on 11/21/03 (QC Batch TK21HGW1) in accordance with USEPA Method 7470A.

Mercury analyses of Katahdin SDG CTO318-1 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

Both of the recoveries for the matrix spike aliquots of Katahdin Sample No. WT2841-6 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate precision analysis of Katahdin Sample No. WT2841-6 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WT2841-6 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Subcontracted Analysis

Analyses for Total Petroleum Hydrocarbon Fractions were performed by a subcontract laboratory. Please refer to the sections of the data package titled Subcontracted Data.

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 Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
Quality Assurance Officer

(WT284)

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3830 | **PAGE** 1 **OF** 1

PROJECT NO: CTO	**FACILITY:** NAS KW	**PROJECT MANAGER** Chuck Bryan	**PHONE NUMBER** 803-649-7963
SAMPLERS (SIGNATURE) Emily McKee		**FIELD OPERATIONS LEADER** Emily McKee	**PHONE NUMBER** 305-219-1662
		CARRIER/WAYBILL NUMBER 834182781	

LABORATORY NAME AND CONTACT: Katahdin - Andrea Colby
ADDRESS 340 County Rd. No. 5
CITY, STATE Westbrook, ME

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

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TPL VOAs + BTEX, MTBE	EDB	TPH Subclassification	TRPH	PAH	Lead	TAL Metals + Tin	TCL VOCs	TCL SVOC	TCL Pest/PCB	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	G	P	P				
		PRESERVATIVE USED							HCl	HCl	HCl	HZl	—	HNO3	HNO3	HZl	—	—	
11/11	1150	FC-MW-06-1103	MW-6	—	—	GW	G	13	3	2	3	2	2	1					
11/11	0000	KWDUP-01-1103	—	—	—	GW	G	13	3	2	3	2	2	1					
11/11	1630	BOI-MW-03-1103	MW-3	—	—	GW	G	2					2						
11/11	1415	FC-MW-05-1103	MW-5	—	—	GW	G	13	3	2	3	2	2	1					
11/11	1515	KWRINS-01-1103	QC	—	—	QC	G	8							1	3	2	2	
11/11	1135	FC-MW-22-1103	MW-22	—	—	GW	G	13	3	2	3	2	2	1					MS/MSD
11/11	1625	~~[illegible]~~ BOI-MW-01-1103	MW-01	—	—	GW	G	2					2						
11/11	1712	TB111103	—	—	—	QC	G	2	2										

1. RELINQUISHED BY Emily McKee	DATE 11/11/03	TIME 1800	1. RECEIVED BY Cindy Broadbent	DATE 11-12-03	TIME 0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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WD877 + WT288U

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3876 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Andrea Colby - Katahdin Analytical

SAMPLERS (SIGNATURE): Emily McRee, [signature]

FIELD OPERATIONS LEADER: Emily McRee | PHONE NUMBER: 305-219-1662 | ADDRESS: 340 County Rd. No. 5

CARRIER/WAYBILL NUMBER: 8425 8908 7899 | CITY, STATE: Westbrook, ME 04092

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G

PRESERVATIVE USED: /, /, 3D1 Meth, /

TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE; PAHs; BTEX, MTBE; TRPH

DATE YEAR 2003	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	PPL VOHs + BTEX, MTBE	PAHs	BTEX, MTBE	TRPH				COMMENTS
11/13	0850	G01-GS-01-1103	SB-1	—		GW	G	3	3	[illegible]						Preservative rinsed from all VOC groundwater samples
11/13	0920	G01-GS-02-1103	SB-2	—		GW	G	3	3							
11/13	1000	G01-GS-03-1103	SB-3	—		GW	G	3	3							
11/13	1035	G01-GS-04-1103	SB-4	—		GW	G	3	3							
11/13	1100	G01-GS-05-1103	SB-5	—		GW	G	3	3							
11/13	1135	G01-GS-06-1103	SB-6	—		GW	G	3	3							
11/13	1205	G01-GS-07-1103	SB-7	—		GW	G	3	3							
11/13	1410	G01-GS-08-1103	SB-8	—		GW	G	3	3							
11/13	1435	G01-GS-09-1103	SB-9	—		GW	G	3	3							
11/13	1530	G01-GS-10-1103	SB-10	—		GW	G	3	3							
~~11/13~~		~~G01-GS-11-1103~~	~~SB-11~~			~~GW~~	~~G~~	~~3~~								
11/13	0950	G01-SB-01-1103L	SB-1	0	2	SO	G	6		1	4	1				
11/13	1150	G01-SB-05-1103M	SB-5	0	2	SO	G	6		1	4	1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McRee	11/13/03	1730	1. RECEIVED BY: [signature]	11-14-03	0730
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

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TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 3867

PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE) Emily McKee, Gary Bruggs		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER 8425 8902 7899		CITY, STATE

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

DATE YEAR 2003	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: PPL VOCs + BTEX, MTBE	HCl	6	COMMENTS
11/6	1550	KWTB-111303	—			QC	6	2	2					

1. RELINQUISHED BY Emily McKee	DATE 11/13/03	TIME 1730	1. RECEIVED BY Amy Brueckner	DATE 11-14-03	TIME 0730
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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CN ID: 475

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STL Pensacola
3355 McLemore Drive
Pensacola, FL 32514

Tel: 850 474 1001 Fax: 850 478 2671
www.stl-inc.com

CASE NARRATIVE

Order: C311437
Project: WT2841 CTO318

The following samples were received at STL Pensacola on November 14, 2003 in good condition. Please see Project Sample Inspection Sheet (PSIF) for further information.

SAMPLE#	SAMPLE DESCRIPTION	MATRIX
C311437*1	FC-MW-06-1103	Liquid
C311437*2	KW-DUP-01-1103	Liquid
C311437*3	FC-MW-05-1103	Liquid
C311437*4	FC-MW-22-1103	Liquid

Sample 4 contained a result of 6.0 mg/l in the total carbon range of C8-C10. The sample was not fractionated because the resulting aromatic and aliphatic results would be less than the reporting limit of 5.0 mg/l. The product is gasoline.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB484 BFB Injection Date: 11/13/03

Instrument ID: GCMS-M BFB Injection Time: 1618

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	17.8
75	30.0 - 60.0% of mass 95	42.7
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	74.9
175	4.0 - 9.0% of mass 174	5.6 (7.5)1
176	95.0 - 101.0% of mass 174	73.3 (98.0)1
177	5.0 - 9.0% of mass 176	5.4 (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		VSTD005M13D	M1118	11/13/03	1731
02		VSTD001M13F	M1120	11/13/03	1836
03		VSTD020M13B	M1121	11/13/03	1909
04		VSTD200M13B	M1122	11/13/03	1941
05		VSTD100M13B	M1123	11/13/03	2014
06		VSTD050M13D	M1125	11/13/03	2119
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB486 BFB Injection Date: 11/17/03

Instrument ID: GCMS-M BFB Injection Time: 0901

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	18.5
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	65.2
175	4.0 - 9.0% of mass 174	4.9 (7.5)1
176	95.0 - 101.0% of mass 174	63.7 (97.6)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)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		VSTD050M17B	M1151	11/17/03	1011
02	WG4601-LCS	WG4601-1	M1152	11/17/03	1050
03	WG4601-BLANK	WG4601-2	M1154	11/17/03	1201
04	KWTB-111303	WT2879-11	M1155	11/17/03	1243
05	G01-GS-01-1103	WT2879-1	M1157	11/17/03	1348
06	G01-GS-02-1103	WT2879-2	M1158	11/17/03	1421
07	G01-GS-03-1103	WT2879-3	M1159	11/17/03	1454
08	G01-GS-04-1103	WT2879-4	M1160	11/17/03	1526
09	G01-GS-05-1103	WT2879-5	M1161	11/17/03	1559
10	G01-GS-06-1103	WT2879-6	M1162	11/17/03	1632
11	G01-GS-07-1103	WT2879-7	M1163	11/17/03	1705
12	G01-GS-08-1103	WT2879-8	M1164	11/17/03	1738
13	G01-GS-09-1103	WT2879-9	M1165	11/17/03	1810
14	G01-GS-10-1103	WT2879-10	M1166	11/17/03	1844
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/17/03 Time: 1011

Lab File ID: M1151 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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	
Chloromethane	0.6630000	0.5944400	0.5944400	0.1	-10.34		AVRG	
Vinyl chloride	0.5180000	0.4907200	0.4907200	0.01	-5.27	20.00	AVRG	
Bromomethane	46.269000	50.000000	0.2903600	0.01	-7.46		LINR	
Chloroethane	0.3110000	0.2774900	0.2774900	0.01	-10.78		AVRG	
1,1-Dichloroethene	0.3760000	0.3752800	0.3752800	0.1	-0.19	20.00	AVRG	
Methylene Chloride	50.833000	50.000000	0.5712100	0.01	1.67		LINR	
trans-1,2-Dichloroethene	0.5060000	0.5486400	0.5486400	0.01	8.43		AVRG	
Methyl tert-butyl ether	1.3720000	1.4282000	1.4282000	0.01	4.10		AVRG	
1,1-Dichloroethane	0.9260000	0.9690700	0.9690700	0.1	4.65		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.5945900	0.5945900	0.01	5.80		AVRG	
Chloroform	0.9510000	0.9303800	0.9303800	0.01	-2.17	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3806000	0.3806000	0.01	12.27		AVRG	
1,1,1-Trichloroethane	0.7100000	0.7456100	0.7456100	0.01	5.02		AVRG	
Benzene	1.1740000	1.2774000	1.2774000	0.01	8.81		AVRG	
1,2-Dichloroethane	0.4000000	0.4271600	0.4271600	0.01	6.79		AVRG	
Trichloroethene	0.3290000	0.3501600	0.3501600	0.01	6.43		AVRG	
1,2-Dichloropropane	0.3230000	0.3332100	0.3332100	0.01	3.16	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4293100	0.4293100	0.01	8.41		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5470000	0.5470000	0.01	11.40		AVRG	
2-Chloroethylvinylether	57.336000	50.000000	0.1747300	0.01	14.67		LINR	
Toluene	0.7200000	0.7809900	0.7809900	0.01	8.47	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2914600	0.2914600	0.01	2.63		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4591400	0.4591400	0.01	13.37		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2320400	0.2320400	0.01	10.50		AVRG	
Dibromochloromethane	0.3760000	0.4330900	0.4330900	0.01	15.18		AVRG	
Chlorobenzene	0.9850000	1.0795000	1.0795000	0.3	9.59		AVRG	
Ethylbenzene	1.6130000	1.7162000	1.7162000	0.01	6.40	20.00	AVRG	
Xylenes (total)	0.0000000	0.6728400	0.6728400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.6804500	0.6804500	0.01	10.46		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/17/03 Time: 1011

Lab File ID: M1151 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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
o-Xylene	0.6080000	0.6576200	0.6576200	0.01	8.16		AVRG
Bromoform	55.857000	50.000000	0.2652500	0.1	11.71		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.8408500	0.8408500	0.3	11.52		AVRG
Dibromofluoromethane	0.5770000	0.5257700	0.5257700	0.01	-8.88		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5048000	0.5048000	0.01	-13.41		AVRG
Toluene-D8	1.0720000	0.9990500	0.9990500	0.01	-6.80		AVRG
P-Bromofluorobenzene	0.4080000	0.3629700	0.3629700	0.01	-11.04		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4601-2
Client ID: WG4601-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	J	0.4	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	55		110	4-217
Chloromethane	50	NA	43		86	40-163
Vinyl chloride	50	NA	51		101	55-151
Bromomethane	50	NA	47		94	24-217
Chloroethane	50	NA	44		88	69-134
Trichlorofluoromethane	50	NA	44		89	71-147
Diethyl Ether	50	NA	48		96	67-135
Tertiary-butyl alcohol	250	NA	240		96	58-146
1,1-Dichloroethene	50	NA	50		100	78-136
Carbon Disulfide	50	NA	36		73	70-136
Freon-113	50	NA	52		104	60-140
Iodomethane	50	NA	44		89	60-140
Acrolein	250	NA	277		111	0-199
Methylene Chloride	50	NA	49		98	52-115
Acetone	50	NA	80	*	159	0-158
Isobutyl Alcohol	1000	NA	892		89	60-140
trans-1,2-Dichloroethene	50	NA	52		103	84-131
Allyl Chloride	50	NA	50		100	60-140
Methyl tert-butyl ether	100	NA	91		91	62-130
Acetonitrile	500	NA	534		107	53-141
Di-isopropyl ether	50	NA	50		100	82-130
Chloroprene	50	NA	50		101	60-140
Methacrylonitrile	500	NA	493		99	60-140
Propionitrile	500	NA	661		132	60-140
1,1-Dichloroethane	50	NA	51		102	81-134
Acrylonitrile	250	NA	262		105	29-172
Ethyl tertiary-butyl ether	50	NA	49		98	85-124
Vinyl Acetate	50	NA	38		77	68-174
cis-1,2-Dichloroethene	50	NA	49		97	84-123
1,2-Dichloroethylene (total)	100	NA	100		100	84-131
Methyl Methacrylate	50	NA	46		91	60-140
2,2-Dichloropropane	50	NA	54		108	69-150
Bromochloromethane	50	NA	49		98	77-146
Chloroform	50	NA	46		92	80-130
Carbon Tetrachloride	50	NA	51		102	74-137
Tetrahydrofuran	50	NA	60		120	32-140
1,1,1-Trichloroethane	50	NA	50		99	76-138
1,1-Dichloropropene	50	NA	49		98	82-120
2-Butanone	50	NA	96	*	192	49-154
Benzene	50	NA	50		100	88-120
Ethyl Methacrylate	50	NA	50		100	60-140
Methyl Acrylate	50	NA	31		61	60-140
Tertiary-amyl methyl ether	50	NA	48		97	85-125
1,2-Dichloroethane	50	NA	48		97	78-138
Trichloroethene	50	NA	48		97	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	51	102	88-130
1,2-Dichloropropane	50	NA	48	96	80-122
Bromodichloromethane	50	NA	47	94	83-133
cis-1,3-dichloropropene	50	NA	49	97	81-138
2-Chloroethylvinylether	50	NA	28	56	50-211
Toluene	50	NA	48	97	88-121
4-methyl-2-pentanone	50	NA	46	92	72-140
Tetrachloroethene	50	NA	48	97	77-129
trans-1,3-Dichloropropene	50	NA	50	101	81-149
1,1,2-Trichloroethane	50	NA	48	96	82-126
Dibromochloromethane	50	NA	50	101	80-133
1,3-Dichloropropane	50	NA	48	95	86-125
1,2-Dibromoethane	50	NA	49	98	88-127
2-Hexanone	50	NA	64	128	45-146
Chlorobenzene	50	NA	51	102	84-123
Ethylbenzene	50	NA	48	97	84-134
1,1,1,2-Tetrachloroethane	50	NA	50	101	83-130
Xylenes (total)	150	NA	149	99	88-123
m+p-Xylenes	100	NA	99	99	88-122
o-Xylene	50	NA	50	100	90-123
Styrene	50	NA	48	96	87-131
Bromoform	50	NA	48	96	77-138
Isopropylbenzene	50	NA	51	102	88-125
cis-1,4-Dichloro-2-Butene	50	NA	54	108	60-140
trans-1,4-Dichloro-2-Butene	50	NA	54	107	60-140
Bromobenzene	50	NA	50	99	84-133
N-Propylbenzene	50	NA	48	97	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	48	96	81-131
1,3,5-Trimethylbenzene	50	NA	48	96	89-124
2-Chlorotoluene	50	NA	48	96	84-128
1,2,3-Trichloropropane	50	NA	50	101	76-132
4-Chlorotoluene	50	NA	49	97	86-132
tert-Butylbenzene	50	NA	47	95	82-131
Pentachloroethane	50	NA	57	114	60-140
1,2,4-Trimethylbenzene	50	NA	47	95	88-121
P-Isopropyltoluene	50	NA	48	96	86-122
1,3-Dichlorobenzene	50	NA	51	101	86-124
1,4-Dichlorobenzene	50	NA	49	99	80-127
N-Butylbenzene	50	NA	47	95	81-133
sec-Butylbenzene	50	NA	47	93	85-122
1,2-Dichlorobenzene	50	NA	49	97	86-126
1,2-Dibromo-3-Chloropropane	50	NA	51	102	61-136
1,3,5-Trichlorobenzene	50	NA	54	108	67-128
Hexachlorobutadiene	50	NA	51	103	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	52	103	53-157
1,2,3-Trimethylbenzene	50	NA	52	104	60-140
Naphthalene	50	NA	45	91	45-151
1,2,3-Trichlorobenzene	50	NA	47	94	30-164
Methyl Acetate	50	NA	50	100	60-140
Methylcyclohexane	50	NA	47	94	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB494 BFB Injection Date: 11/21/03

Instrument ID: GCMS-M BFB Injection Time: 1527

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	17.2
75	30.0 - 60.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	80.5
175	4.0 - 9.0% of mass 174	5.3 (6.5)1
176	95.0 - 101.0% of mass 174	78.0 (96.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.0)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		VSTD050M21D	M1275	11/21/03	1736
02	WG4738-LCS	WG4738-1	M1277	11/21/03	1842
03	WG4738-BLANK	WG4738-2	M1280	11/21/03	2020
04	FC-MW-06-1103	WT2841-1	M1287	11/22/03	0010
05	KWDUP-01-1103	WT2841-2	M1288	11/22/03	0043
06	FC-MW-05-1103	WT2841-4	M1289	11/22/03	0115
07	KW-RINS-01-1103	WT2841-5	M1290	11/22/03	0148
08	FC-MW-22-1103	WT2841-6	M1291	11/22/03	0220
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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	67.073000	50.000000	0.4607400	0.01	34.15		LINR	
Chloromethane	0.6630000	0.2619200	0.2619200	0.1	-60.50		AVRG	
Vinyl chloride	0.5180000	0.6161100	0.6161100	0.01	18.94	20.00	AVRG	
Bromomethane	23.607000	50.000000	0.1306600	0.01	-52.79		LINR	
Chloroethane	0.3110000	0.3304000	0.3304000	0.01	6.24		AVRG	
Trichlorofluoromethane	0.6770000	0.7489000	0.7489000	0.01	10.62		AVRG	
Diethyl Ether	0.3580000	0.3732800	0.3732800	0.01	4.27		AVRG	
Tertiary-butyl alcohol	7.2e-002	7.47e-002	7.47e-002	0.01	3.75		AVRG	
1,1-Dichloroethene	0.3760000	0.4517300	0.4517300	0.1	20.14	20.00	AVRG	<-
Carbon Disulfide	1.5200000	1.6326000	1.6326000	0.01	7.41		AVRG	
Freon-113	0.3050000	0.3374800	0.3374800	0.01	10.65		AVRG	
Iodomethane	32.187000	50.000000	0.4677900	0.01	-35.63		LINR	
Acrolein	6.3e-002	8.23e-002	8.23e-002	0.01	30.64		AVRG	
Methylene Chloride	54.394000	50.000000	0.6098400	0.01	8.79		LINR	
Acetone	335.95000	250.00000	5.08e-002	0.01	34.38		AVRG	
Isobutyl Alcohol	1.4e-002	1.35e-002	1.35e-002	0.01	-3.57		AVRG	
trans-1,2-Dichloroethene	0.5060000	0.5733900	0.5733900	0.01	13.32		AVRG	
Allyl Chloride	0.8920000	0.9759400	0.9759400	0.01	9.41		AVRG	
Methyl tert-butyl ether	1.3720000	1.4323000	1.4323000	0.01	4.40		AVRG	
Acetonitrile	9.e-003	1.18e-002	1.18e-002	0.01	31.11		AVRG	<-
Di-isopropyl ether	2.1330000	2.3408000	2.3408000	0.01	9.74		AVRG	
Hexane	0.0000000	0.5537200	0.5537200	0.01	0.00		AVRG	<-
Chloroprene	0.8280000	0.9262200	0.9262200	0.01	11.86		AVRG	
Methacrylonitrile	0.3060000	0.3830300	0.3830300	0.01	25.17		AVRG	
Propionitrile	3.7e-002	6.15e-002	6.15e-002	0.01	66.22		AVRG	
1,1-Dichloroethane	0.9260000	1.0427000	1.0427000	0.1	12.60		AVRG	
Acrylonitrile	339.70000	250.00000	0.1702000	0.01	35.88		LINR	
Ethyl tertiary-butyl ether	1.7140000	1.8229000	1.8229000	0.01	6.35		AVRG	
Vinyl Acetate	59.615000	50.000000	0.7482900	0.01	19.23		LINR	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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	
cis-1,2-Dichloroethene	0.5620000	0.6229200	0.6229200	0.01	10.84		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.5981600	0.5981600	0.01	0.00		AVRG	<-
Methyl Methacrylate	55.710000	50.000000	0.3040200	0.01	11.42		LINR	
2,2-Dichloropropane	0.6330000	0.7764000	0.7764000	0.01	22.65		AVRG	
Bromochloromethane	0.2880000	0.2613600	0.2613600	0.01	-9.25		AVRG	
Chloroform	0.9510000	0.9734000	0.9734000	0.01	2.36	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3716000	0.3716000	0.01	9.62		AVRG	
Tetrahydrofuran	357.43000	250.00000	0.1374000	0.01	42.97		LINR	
1,1,1-Trichloroethane	0.7100000	0.7889400	0.7889400	0.01	11.12		AVRG	
1,1-Dichloropropene	0.3870000	0.4285500	0.4285500	0.01	10.74		AVRG	
2-Butanone	369.20000	250.00000	5.86e-002	0.01	47.68		LINR	
Benzene	1.1740000	1.2870000	1.2870000	0.01	9.62		AVRG	
Cyclohexane	0.8320000	0.8305000	0.8305000	0.01	-0.18		AVRG	
Ethyl Methacrylate	0.3590000	0.4152600	0.4152600	0.01	15.67		AVRG	
Methyl Acrylate	81.985000	50.000000	2.54e-002	0.01	63.97		LINR	
Tertiary-amyl methyl ether	1.4330000	1.5651000	1.5651000	0.01	9.22		AVRG	
1,2-Dichloroethane	0.4000000	0.4227500	0.4227500	0.01	5.69		AVRG	
Trichloroethene	0.3290000	0.3502300	0.3502300	0.01	6.45		AVRG	
Dibromomethane	0.1880000	0.2097500	0.2097500	0.01	11.57		AVRG	
1,2-Dichloropropane	0.3230000	0.3444400	0.3444400	0.01	6.64	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4238000	0.4238000	0.01	7.02		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5308100	0.5308100	0.01	8.11		AVRG	
1-Chlorohexane	0.0000000	0.3476300	0.3476300	0.01	0.00		AVRG	<-
1,4-Dioxane	3.e-003	2.05e-003	2.05e-003	0.01	-31.67		AVRG	<-
2-Chloroethylvinylether	55.576000	50.000000	0.1691600	0.01	11.15		LINR	
Toluene	0.7200000	0.7912600	0.7912600	0.01	9.90	20.00	AVRG	
4-methyl-2-pentanone	334.58000	250.00000	0.3231500	0.01	33.83		LINR	
Tetrachloroethene	0.2840000	0.2638400	0.2638400	0.01	-7.10		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4376900	0.4376900	0.01	8.07		AVRG	

Katahdin Analytical Services 1000066

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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	
1,1,2-Trichloroethane	0.2100000	0.2293600	0.2293600	0.01	9.22		AVRG	
Dibromochloromethane	0.3760000	0.3826400	0.3826400	0.01	1.77		AVRG	
1,3-Dichloropropane	0.5860000	0.6212500	0.6212500	0.01	6.02		AVRG	
1,2-Dibromoethane	0.2790000	0.3012800	0.3012800	0.01	7.98		AVRG	
2-Hexanone	342.50000	250.00000	0.2745300	0.01	37.00		LINR	
Chlorobenzene	0.9850000	1.0168000	1.0168000	0.3	3.23		AVRG	
Ethylbenzene	1.6130000	1.6894000	1.6894000	0.01	4.74	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.3490000	0.3533800	0.3533800	0.01	1.26		AVRG	
Xylenes (total)	0.0000000	0.6368500	0.6368500	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.6453800	0.6453800	0.01	4.77		AVRG	
o-Xylene	0.6080000	0.6197800	0.6197800	0.01	1.94		AVRG	
Styrene	1.0640000	1.1091000	1.1091000	0.01	4.24		AVRG	
Bromoform	47.768000	50.000000	0.2252400	0.1	-4.46		LINR	
Isopropylbenzene	3.0790000	3.0777000	3.0777000	0.01	-0.04		AVRG	
cis-1,4-Dichloro-2-Butene	0.2400000	0.2422100	0.2422100	0.01	0.92		AVRG	
trans-1,4-Dichloro-2-Butene	0.2240000	0.2354500	0.2354500	0.01	5.11		AVRG	
Bromobenzene	0.8540000	0.8480700	0.8480700	0.01	-0.69		AVRG	
N-Propylbenzene	3.6100000	3.7675000	3.7675000	0.01	4.36		AVRG	
2-bromo-1-chloropropane	0.0000000			0.01	0.00		AVRG	<-
1,1,2,2-Tetrachloroethane	0.7540000	0.8383300	0.8383300	0.3	11.18		AVRG	
1,3,5-Trimethylbenzene	2.5400000	2.5675000	2.5675000	0.01	1.08		AVRG	
2-Chlorotoluene	2.5660000	2.6810000	2.6810000	0.01	4.48		AVRG	
1,2,3-Trichloropropane	0.9660000	1.0575000	1.0575000	0.01	9.47		AVRG	
4-Chlorotoluene	2.4040000	2.4870000	2.4870000	0.01	3.45		AVRG	
tert-Butylbenzene	2.1070000	2.1846000	2.1846000	0.01	3.68		AVRG	
Pentachloroethane	0.5590000	0.6228400	0.6228400	0.01	11.42		AVRG	
1,2,4-Trimethylbenzene	2.6530000	2.7292000	2.7292000	0.01	2.87		AVRG	
P-Isopropyltoluene	2.5080000	2.3825000	2.3825000	0.01	-5.00		AVRG	
1,3-Dichlorobenzene	1.4290000	1.4342000	1.4342000	0.01	0.36		AVRG	

Katahdin Analytical Services 1000067

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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
1,4-Dichlorobenzene	1.4830000	1.4538000	1.4538000	0.01	-1.97		AVRG
N-Butylbenzene	2.1380000	2.1781000	2.1781000	0.01	1.88		AVRG
sec-Butylbenzene	3.0240000	2.9890000	2.9890000	0.01	-1.16		AVRG
1,2-Dichlorobenzene	1.3260000	1.3105000	1.3105000	0.01	-1.17		AVRG
1,2-Dibromo-3-Chloropropane	0.1950000	0.1993000	0.1993000	0.01	2.20		AVRG
1,3,5-Trichlorobenzene	0.4100000	0.3914000	0.3914000	0.01	-4.54		AVRG
Hexachlorobutadiene	46.021000	50.000000	0.2123100	0.01	-7.96		LINR
1,2,4-Trichlorobenzene	0.3460000	0.2867500	0.2867500	0.01	-17.12		AVRG
1,2,3-Trimethylbenzene	1.6170000	1.7281000	1.7281000	0.01	6.87		AVRG
Naphthalene	36.061000	50.000000	0.3184200	0.01	-27.88		LINR
1,2,3-Trichlorobenzene	38.041000	50.000000	0.1214400	0.01	-23.92		LINR
Methyl Acetate	0.4270000	0.5475800	0.5475800	0.01	28.24		AVRG
Methylcyclohexane	0.7000000	0.7236600	0.7236600	0.01	3.38		AVRG
Dibromofluoromethane	0.5770000	0.5633300	0.5633300	0.01	-2.37		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5619400	0.5619400	0.01	-3.61		AVRG
Toluene-D8	1.0720000	1.0420000	1.0420000	0.01	-2.80		AVRG
P-Bromofluorobenzene	0.4080000	0.3929300	0.3929300	0.01	-3.69		AVRG

Katahdin Analytical Services 1000068

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.3
75-65-0	Tertiary-butyl alcohol	U	5	1.0	5	5	2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.5
74-88-4	Iodomethane	U	1	1.0	1	1	0.2
107-02-8	Acrolein	U	5	1.0	5	5	3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
78-83-1	Isobutyl Alcohol	U	20	1.0	20	20	7
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.3
107-05-1	Allyl Chloride	U	1	1.0	1	1	1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-05-8	Acetonitrile	U	10	1.0	10	10	6
108-20-3	Di-isopropyl ether	U	1	1.0	1	1	0.1
110-54-3	Hexane	U	1	1.0	1	1	0.2
126-99-8	Chloroprene	U	1	1.0	1	1	2
126-98-7	Methacrylonitrile	U	10	1.0	10	10	11
107-12-0	Propionitrile	U	10	1.0	10	10	16
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
107-13-1	Acrylonitrile	U	5	1.0	5	5	0.8
637-92-3	Ethyl tertiary-butyl ether	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.3
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
80-62-6	Methyl Methacrylate	U	1	1.0	1	1	1
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.4
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.1
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.5
97-63-2	Ethyl Methacrylate	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
96-33-3	Methyl Acrylate	U	1	1.0	1	1	0.5
994-05-8	Tertiary-amyl methyl ether	U	1	1.0	1	1	0.6
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
74-95-3	Dibromomethane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
544-10-5	1-Chlorohexane	U	1	1.0	1	1	0.2
123-91-1	1,4-Dioxane	U	20	1.0	20	20	43
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.6
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.2
1476-11-5	cis-1,4-Dichloro-2-Butene	U	1	1.0	1	1	0.5
110-57-6	trans-1,4-Dichloro-2-Butene	U	1	1.0	1	1	0.5
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	J	0.2	1.0	1	1	0.1
3017-95-6	2-bromo-1-chloropropane	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-67-8	1,3,5-Trimethylbenzene	J	0.2	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	J	0.1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.9
106-43-4	4-Chlorotoluene	J	0.1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.6
76-01-1	Pentachloroethane	U	1	1.0	1	1	0.5
95-63-6	1,2,4-Trimethylbenzene	J	0.2	1.0	1	1	0.2
99-87-6	P-Isopropyltoluene	J	0.3	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
541-73-1	1,3-Dichlorobenzene	J	0.2	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.4	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	J	0.3	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	J	0.2	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.6
108-70-3	1,3,5-Trichlorobenzene	J	0.5	1.0	1	1	0.2
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.5
120-82-1	1,2,4-Trichlorobenzene	J	0.8	1.0	1	1	0.3
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.5
91-20-3	Naphthalene	U	1	1.0	1	1	0.1
87-61-6	1,2,3-Trichlorobenzene		3	1.0	1	1	0.3
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.2
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	65		130	4-217
Chloromethane	50	NA	24		48	40-163
Vinyl chloride	50	NA	60		120	55-151
Bromomethane	50	NA	18		37	24-217
Chloroethane	50	NA	55		110	69-134
Trichlorofluoromethane	50	NA	54		109	71-147
Diethyl Ether	50	NA	48		97	67-135
Tertiary-butyl alcohol	250	NA	243		97	58-146
1,1-Dichloroethene	50	NA	71	*	142	78-136
Carbon Disulfide	50	NA	57		114	70-136
Freon-113	50	NA	56		113	60-140
Iodomethane	50	NA	21	*	42	60-140
Acrolein	250	NA	276		110	0-199
Methylene Chloride	50	NA	59	*	117	52-115
Acetone	50	NA	70		140	0-158
Isobutyl Alcohol	1000	NA	520	*	52	60-140
trans-1,2-Dichloroethene	50	NA	62		125	84-131
Allyl Chloride	50	NA	47		94	60-140
Methyl tert-butyl ether	100	NA	96		96	62-130
Acetonitrile	500	NA	506		101	53-141
Di-isopropyl ether	50	NA	56		112	82-130
Chloroprene	50	NA	58		115	60-140
Methacrylonitrile	500	NA	520		104	60-140
Propionitrile	500	NA	618		124	60-140
1,1-Dichloroethane	50	NA	61		122	81-134
Acrylonitrile	250	NA	277		111	29-172
Ethyl tertiary-butyl ether	50	NA	51		102	85-124
Vinyl Acetate	50	NA	38		77	68-174
cis-1,2-Dichloroethene	50	NA	59		118	84-123
1,2-Dichloroethylene (total)	100	NA	121		121	84-131
Methyl Methacrylate	50	NA	43		86	60-140
2,2-Dichloropropane	50	NA	63		125	69-150
Bromochloromethane	50	NA	41		82	77-146
Chloroform	50	NA	56		111	80-130
Carbon Tetrachloride	50	NA	56		112	74-137
Tetrahydrofuran	50	NA	58		116	32-140
1,1,1-Trichloroethane	50	NA	60		120	76-138
1,1-Dichloropropene	50	NA	58		116	82-120
2-Butanone	50	NA	96	*	193	49-154
Benzene	50	NA	58		116	88-120
Ethyl Methacrylate	50	NA	48		96	60-140
Methyl Acrylate	50	NA	30		60	60-140
Tertiary-amyl methyl ether	50	NA	49		98	85-125
1,2-Dichloroethane	50	NA	51		102	78-138
Trichloroethene	50	NA	55		109	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	52		104	88-130
1,2-Dichloropropane	50	NA	55		110	80-122
Bromodichloromethane	50	NA	51		102	83-133
cis-1,3-dichloropropene	50	NA	51		103	81-138
2-Chloroethylvinylether	50	NA	25	*	49	50-211
Toluene	50	NA	57		113	88-121
4-methyl-2-pentanone	50	NA	46		92	72-140
Tetrachloroethene	50	NA	53		106	77-129
trans-1,3-Dichloropropene	50	NA	51		101	81-149
1,1,2-Trichloroethane	50	NA	50		101	82-126
Dibromochloromethane	50	NA	49		99	80-133
1,3-Dichloropropane	50	NA	51		101	86-125
1,2-Dibromoethane	50	NA	49		98	88-127
2-Hexanone	50	NA	60		120	45-146
Chlorobenzene	50	NA	56		111	84-123
Ethylbenzene	50	NA	55		110	84-134
1,1,1,2-Tetrachloroethane	50	NA	53		106	83-130
Xylenes (total)	150	NA	165		110	88-123
m+p-Xylenes	100	NA	110		110	88-122
o-Xylene	50	NA	55		110	90-123
Styrene	50	NA	52		105	87-131
Bromoform	50	NA	43		86	77-138
Isopropylbenzene	50	NA	58		116	88-125
cis-1,4-Dichloro-2-Butene	50	NA	42		83	60-140
trans-1,4-Dichloro-2-Butene	50	NA	41		83	60-140
Bromobenzene	50	NA	52		104	84-133
N-Propylbenzene	50	NA	56		112	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	49		98	81-131
1,3,5-Trimethylbenzene	50	NA	55		110	89-124
2-Chlorotoluene	50	NA	57		114	84-128
1,2,3-Trichloropropane	50	NA	48		95	76-132
4-Chlorotoluene	50	NA	56		112	86-132
tert-Butylbenzene	50	NA	53		106	82-131
Pentachloroethane	50	NA	53		107	60-140
1,2,4-Trimethylbenzene	50	NA	53		106	88-121
P-Isopropyltoluene	50	NA	53		107	86-122
1,3-Dichlorobenzene	50	NA	54		107	86-124
1,4-Dichlorobenzene	50	NA	52		103	80-127
N-Butylbenzene	50	NA	54		109	81-133
sec-Butylbenzene	50	NA	54		107	85-122
1,2-Dichlorobenzene	50	NA	51		102	86-126
1,2-Dibromo-3-Chloropropane	50	NA	46		93	61-136
1,3,5-Trichlorobenzene	50	NA	48		97	67-128
Hexachlorobutadiene	50	NA	43		86	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	40	81	53-157
1,2,3-Trimethylbenzene	50	NA	55	110	60-140
Naphthalene	50	NA	33	65	45-151
1,2,3-Trichlorobenzene	50	NA	32	65	30-164
Methyl Acetate	50	NA	56	113	60-140
Methylcyclohexane	50	NA	53	107	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB495 BFB Injection Date: 11/22/03

Instrument ID: GCMS-M BFB Injection Time: 0807

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	22.0
75	30.0 - 60.0% of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	53.8
175	4.0 - 9.0% of mass 174	4.2 (7.8)1
176	95.0 - 101.0% of mass 174	52.4 (97.5)1
177	5.0 - 9.0% of mass 176	4.2 (8.0)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		VSTD050M22A	M1293	11/22/03	0833
02	WG4754-LCS	WG4754-1	M1294	11/22/03	0915
03	WG4754-BLANK	WG4754-2	M1297	11/22/03	1106
04	TB111103	WT2841-8RA	M1300	11/22/03	1252
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/22/03 Time: 0833

Lab File ID: M1293 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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	
Chloromethane	0.6630000	0.2656400	0.2656400	0.1	-59.93		AVRG	
Vinyl chloride	0.5180000	0.5465800	0.5465800	0.01	5.52	20.00	AVRG	
Bromomethane	15.741000	50.000000	7.52e-002	0.01	-68.52		LINR	
Chloroethane	0.3110000	0.2946800	0.2946800	0.01	-5.25		AVRG	
1,1-Dichloroethene	0.3760000	0.3630000	0.3630000	0.1	-3.46	20.00	AVRG	
Methylene Chloride	50.116000	50.000000	0.5634300	0.01	0.23		LINR	
trans-1,2-Dichloroethene	0.5060000	0.5120000	0.5120000	0.01	1.18		AVRG	
Methyl tert-butyl ether	1.3720000	1.3685000	1.3685000	0.01	-0.26		AVRG	
1,1-Dichloroethane	0.9260000	0.9276500	0.9276500	0.1	0.18		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.5623600	0.5623600	0.01	0.06		AVRG	
Chloroform	0.9510000	0.8712400	0.8712400	0.01	-8.39	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3255400	0.3255400	0.01	-3.97		AVRG	
1,1,1-Trichloroethane	0.7100000	0.7068900	0.7068900	0.01	-0.44		AVRG	
Benzene	1.1740000	1.1576000	1.1576000	0.01	-1.40		AVRG	
1,2-Dichloroethane	0.4000000	0.3803700	0.3803700	0.01	-4.91		AVRG	
Trichloroethene	0.3290000	0.3184700	0.3184700	0.01	-3.20		AVRG	
1,2-Dichloropropane	0.3230000	0.3105600	0.3105600	0.01	-3.85	20.00	AVRG	
Bromodichloromethane	0.3960000	0.3822100	0.3822100	0.01	-3.48		AVRG	
cis-1,3-dichloropropene	0.4910000	0.4765100	0.4765100	0.01	-2.95		AVRG	
2-Chloroethylvinylether	50.372000	50.000000	0.1526700	0.01	0.74		LINR	
Toluene	0.7200000	0.7037000	0.7037000	0.01	-2.26	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2418600	0.2418600	0.01	-14.84		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.3938900	0.3938900	0.01	-2.74		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2132200	0.2132200	0.01	1.53		AVRG	
Dibromochloromethane	0.3760000	0.3553900	0.3553900	0.01	-5.48		AVRG	
Chlorobenzene	0.9850000	0.9287600	0.9287600	0.3	-5.71		AVRG	
Ethylbenzene	1.6130000	1.5176000	1.5176000	0.01	-5.91	20.00	AVRG	
Xylenes (total)	0.0000000	0.5800200	0.5800200	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.5881600	0.5881600	0.01	-4.52		AVRG	

Katahdin Analytical Services 1000069

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/22/03 Time: 0833

Lab File ID: M1293 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS 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
o-Xylene	0.6080000	0.5637200	0.5637200	0.01	-7.28		AVRG
Bromoform	45.423000	50.000000	0.2136400	0.1	-9.15		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.7856300	0.7856300	0.3	4.20		AVRG
Dibromofluoromethane	0.5770000	0.5526900	0.5526900	0.01	-4.21		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5491000	0.5491000	0.01	-5.81		AVRG
Toluene-D8	1.0720000	1.0180000	1.0180000	0.01	-5.04		AVRG
P-Bromofluorobenzene	0.4080000	0.3808400	0.3808400	0.01	-6.66		AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	57		115	4-217
Chloromethane	50	NA	20		41	40-163
Vinyl chloride	50	NA	55		110	55-151
Bromomethane	50	NA	22		43	24-217
Chloroethane	50	NA	49		99	69-134
Trichlorofluoromethane	50	NA	48		97	71-147
Diethyl Ether	50	NA	50		101	67-135
Tertiary-butyl alcohol	250	NA	252		101	58-146
1,1-Dichloroethene	50	NA	56		112	78-136
Carbon Disulfide	50	NA	42		85	70-136
Freon-113	50	NA	53		105	60-140
Iodomethane	50	NA	35		69	60-140
Acrolein	250	NA	320		128	0-199
Methylene Chloride	50	NA	55		109	52-115
Acetone	50	NA	98	*	197	0-158
Isobutyl Alcohol	1000	NA	1130		113	60-140
trans-1,2-Dichloroethene	50	NA	56		111	84-131
Allyl Chloride	50	NA	54		108	60-140
Methyl tert-butyl ether	100	NA	106		106	62-130
Acetonitrile	500	NA	719	*	144	53-141
Di-isopropyl ether	50	NA	53		106	82-130
Chloroprene	50	NA	54		107	60-140
Methacrylonitrile	500	NA	597		119	60-140
Propionitrile	500	NA	875	*	175	60-140
1,1-Dichloroethane	50	NA	56		112	81-134
Acrylonitrile	250	NA	339		136	29-172
Ethyl tertiary-butyl ether	50	NA	53		105	85-124
Vinyl Acetate	50	NA	45		90	68-174
cis-1,2-Dichloroethene	50	NA	53		106	84-123
1,2-Dichloroethylene (total)	100	NA	108		108	84-131
Methyl Methacrylate	50	NA	53		106	60-140
2,2-Dichloropropane	50	NA	62		124	69-150
Bromochloromethane	50	NA	47		94	77-146
Chloroform	50	NA	50		100	80-130
Carbon Tetrachloride	50	NA	52		105	74-137
Tetrahydrofuran	50	NA	76	*	153	32-140
1,1,1-Trichloroethane	50	NA	53		106	76-138
1,1-Dichloropropene	50	NA	53		106	82-120
2-Butanone	50	NA	121	*	242	49-154
Benzene	50	NA	53		105	88-120
Ethyl Methacrylate	50	NA	55		111	60-140
Methyl Acrylate	50	NA	34		68	60-140
Tertiary-amyl methyl ether	50	NA	54		108	85-125
1,2-Dichloroethane	50	NA	51		101	78-138
Trichloroethene	50	NA	51		102	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	54		108	88-130
1,2-Dichloropropane	50	NA	51		102	80-122
Bromodichloromethane	50	NA	48		96	83-133
cis-1,3-dichloropropene	50	NA	49		99	81-138
2-Chloroethylvinylether	50	NA	25		50	50-211
Toluene	50	NA	51		102	88-121
4-methyl-2-pentanone	50	NA	61		123	72-140
Tetrachloroethene	50	NA	46		92	77-129
trans-1,3-Dichloropropene	50	NA	51		101	81-149
1,1,2-Trichloroethane	50	NA	52		104	82-126
Dibromochloromethane	50	NA	49		98	80-133
1,3-Dichloropropane	50	NA	51		102	86-125
1,2-Dibromoethane	50	NA	52		104	88-127
2-Hexanone	50	NA	85	*	170	45-146
Chlorobenzene	50	NA	50		100	84-123
Ethylbenzene	50	NA	48		97	84-134
1,1,1,2-Tetrachloroethane	50	NA	49		97	83-130
Xylenes (total)	150	NA	150		100	88-123
m+p-Xylenes	100	NA	100		100	88-122
o-Xylene	50	NA	50		100	90-123
Styrene	50	NA	45		91	87-131
Bromoform	50	NA	47		94	77-138
Isopropylbenzene	50	NA	52		103	88-125
cis-1,4-Dichloro-2-Butene	50	NA	52		104	60-140
trans-1,4-Dichloro-2-Butene	50	NA	53		106	60-140
Bromobenzene	50	NA	49		98	84-133
N-Propylbenzene	50	NA	51		102	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	56		112	81-131
1,3,5-Trimethylbenzene	50	NA	48		97	89-124
2-Chlorotoluene	50	NA	50		100	84-128
1,2,3-Trichloropropane	50	NA	54		109	76-132
4-Chlorotoluene	50	NA	50		101	86-132
tert-Butylbenzene	50	NA	47		94	82-131
Pentachloroethane	50	NA	56		112	60-140
1,2,4-Trimethylbenzene	50	NA	48		96	88-121
P-Isopropyltoluene	50	NA	48		96	86-122
1,3-Dichlorobenzene	50	NA	50		99	86-124
1,4-Dichlorobenzene	50	NA	50		99	80-127
N-Butylbenzene	50	NA	49		99	81-133
sec-Butylbenzene	50	NA	48		95	85-122
1,2-Dichlorobenzene	50	NA	49		99	86-126
1,2-Dibromo-3-Chloropropane	50	NA	56		111	61-136
1,3,5-Trichlorobenzene	50	NA	53		105	67-128
Hexachlorobutadiene	50	NA	47		93	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	51		102	53-157
1,2,3-Trimethylbenzene	50	NA	52		105	60-140
Naphthalene	50	NA	51		103	45-151
1,2,3-Trichlorobenzene	50	NA	50		99	30-164
Methyl Acetate	50	NA	72	*	144	60-140
Methylcyclohexane	50	NA	50		100	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB496 BFB Injection Date: 11/24/03

Instrument ID: GCMS-M BFB Injection Time: 0708

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	19.1
75	30.0 - 60.0% of mass 95	43.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	60.8
175	4.0 - 9.0% of mass 174	4.2 (6.9)1
176	95.0 - 101.0% of mass 174	59.9 (98.4)1
177	5.0 - 9.0% of mass 176	3.7 (6.2)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		VSTD050A	M1312	11/24/03	0736
02	WG4777-LCS	WG4777-1	M1313	11/24/03	0816
03	WG4777-BLANK	WG4777-2	M1316	11/24/03	1005
04	FC-MW-22-1103MS	WG4777-3	M1328	11/24/03	1645
05	FC-MW-22-1103MSD	WG4777-4	M1329	11/24/03	1717
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-1
Client ID: WG4777-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	48		97	4-217
Chloromethane	50	NA	23		45	40-163
Vinyl chloride	50	NA	49		98	55-151
Bromomethane	50	NA	22		45	24-217
Chloroethane	50	NA	46		91	69-134
Trichlorofluoromethane	50	NA	42		83	71-147
Diethyl Ether	50	NA	45		90	67-135
Tertiary-butyl alcohol	250	NA	226		90	58-146
1,1-Dichloroethene	50	NA	57		115	78-136
Carbon Disulfide	50	NA	44		87	70-136
Freon-113	50	NA	49		99	60-140
Iodomethane	50	NA	32		63	60-140
Acrolein	250	NA	262		105	0-199
Methylene Chloride	50	NA	49		98	52-115
Acetone	50	NA	82	*	164	0-158
Isobutyl Alcohol	1000	NA	819		82	60-140
trans-1,2-Dichloroethene	50	NA	51		102	84-131
Allyl Chloride	50	NA	48		95	60-140
Methyl tert-butyl ether	100	NA	96		96	62-130
Acetonitrile	500	NA	576		115	53-141
Di-isopropyl ether	50	NA	47		94	82-130
Chloroprene	50	NA	47		93	60-140
Methacrylonitrile	500	NA	523		105	60-140
Propionitrile	500	NA	701		140	60-140
1,1-Dichloroethane	50	NA	49		99	81-134
Acrylonitrile	250	NA	289		116	29-172
Ethyl tertiary-butyl ether	50	NA	48		97	85-124
Vinyl Acetate	50	NA	41		82	68-174
cis-1,2-Dichloroethene	50	NA	48		97	84-123
1,2-Dichloroethylene (total)	100	NA	100		100	84-131
Methyl Methacrylate	50	NA	47		94	60-140
2,2-Dichloropropane	50	NA	55		109	69-150
Bromochloromethane	50	NA	46		91	77-146
Chloroform	50	NA	44		89	80-130
Carbon Tetrachloride	50	NA	49		98	74-137
Tetrahydrofuran	50	NA	64		127	32-140
1,1,1-Trichloroethane	50	NA	47		95	76-138
1,1-Dichloropropene	50	NA	48		97	82-120
2-Butanone	50	NA	96	*	192	49-154
Benzene	50	NA	48		96	88-120
Ethyl Methacrylate	50	NA	52		104	60-140
Methyl Acrylate	50	NA	33		66	60-140
Tertiary-amyl methyl ether	50	NA	48		97	85-125
1,2-Dichloroethane	50	NA	46		93	78-138
Trichloroethene	50	NA	47		93	80-125

Katahdin Analytical Services 1000023

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-1
Client ID: WG4777-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	51		102	88-130
1,2-Dichloropropane	50	NA	47		93	80-122
Bromodichloromethane	50	NA	45		91	83-133
cis-1,3-dichloropropene	50	NA	47		95	81-138
2-Chloroethylvinylether	50	NA	20	*	41	50-211
Toluene	50	NA	48		96	88-121
4-methyl-2-pentanone	50	NA	52		105	72-140
Tetrachloroethene	50	NA	45		89	77-129
trans-1,3-Dichloropropene	50	NA	49		99	81-149
1,1,2-Trichloroethane	50	NA	49		99	82-126
Dibromochloromethane	50	NA	50		100	80-133
1,3-Dichloropropane	50	NA	48		96	86-125
1,2-Dibromoethane	50	NA	50		99	88-127
2-Hexanone	50	NA	70		141	45-146
Chlorobenzene	50	NA	50		99	84-123
Ethylbenzene	50	NA	47		95	84-134
1,1,1,2-Tetrachloroethane	50	NA	49		99	83-130
Xylenes (total)	150	NA	145		97	88-123
m+p-Xylenes	100	NA	96		96	88-122
o-Xylene	50	NA	48		97	90-123
Styrene	50	NA	47		93	87-131
Bromoform	50	NA	48		97	77-138
Isopropylbenzene	50	NA	48		96	88-125
cis-1,4-Dichloro-2-Butene	50	NA	55		110	60-140
trans-1,4-Dichloro-2-Butene	50	NA	53		106	60-140
Bromobenzene	50	NA	48		97	84-133
N-Propylbenzene	50	NA	47		95	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	51		101	81-131
1,3,5-Trimethylbenzene	50	NA	45		90	89-124
2-Chlorotoluene	50	NA	46		93	84-128
1,2,3-Trichloropropane	50	NA	51		101	76-132
4-Chlorotoluene	50	NA	47		94	86-132
tert-Butylbenzene	50	NA	44		88	82-131
Pentachloroethane	50	NA	54		107	60-140
1,2,4-Trimethylbenzene	50	NA	45		90	88-121
P-Isopropyltoluene	50	NA	45		89	86-122
1,3-Dichlorobenzene	50	NA	48		97	86-124
1,4-Dichlorobenzene	50	NA	48		97	80-127
N-Butylbenzene	50	NA	46		91	81-133
sec-Butylbenzene	50	NA	44		87	85-122
1,2-Dichlorobenzene	50	NA	48		96	86-126
1,2-Dibromo-3-Chloropropane	50	NA	44		87	61-136
1,3,5-Trichlorobenzene	50	NA	43		86	67-128
Hexachlorobutadiene	50	NA	43		86	52-129

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-3 & WG4777-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	32	27	65	* 54	19	20	60-140
Vinyl chloride	50	50	0.00	60	56	119	113	6	20	60-140
Bromomethane	50	50	0.00	20	17	* 39	* 33	16	20	60-140
Chloroethane	50	50	0.00	54	52	107	103	4	20	60-140
1,1-Dichloroethene	50	50	0.00	64	67	128	135	5	20	44-167
Methylene Chloride	50	50	0.00	53	52	105	104	1	20	60-140
trans-1,2-Dichloroethene	50	50	0.00	57	57	113	114	0.2	20	60-140
Methyl tert-butyl ether	100	100	0.00	108	98	108	98	10	20	60-140
1,1-Dichloroethane	50	50	0.00	55	54	110	107	3	20	60-140
cis-1,2-Dichloroethene	50	50	0.00	52	51	104	102	2	20	60-140
Chloroform	50	50	0.35	48	48	96	95	1	20	60-140
Carbon Tetrachloride	50	50	0.00	55	56	111	111	0.4	20	60-140
1,1,1-Trichloroethane	50	50	0.00	55	54	110	108	[illegible]	[illegible]	[illegible]
Benzene	50	50	0.00	53	52	105	104	2	20	64-[illegible]
1,2-Dichloroethane	50	50	0.00	50	49	101	98	3	20	[illegible]
Trichloroethene	50	50	0.00	50	49	99	98	[illegible]	[illegible]	[illegible]
1,2-Dichloropropane	50	50	0.00	50	49	101	98	[illegible]	[illegible]	[illegible]
Bromodichloromethane	50	50	0.00	47	46	94	93	1	20	60-140
cis-1,3-dichloropropene	50	50	0.00	49	48	98	95	3	20	60-140
2-Chloroethylvinylether	50	50	0.00	0.0	0.0	* 0	* 0		20	60-140
Toluene	50	50	3.1	52	51	98	95	3	20	65-142
Tetrachloroethene	50	50	0.00	46	47	92	93	2	20	60-140
trans-1,3-Dichloropropene	50	50	0.00	50	48	101	96	5	20	60-140
1,1,2-Trichloroethane	50	50	0.00	124	117	* 248	* 234	6	20	60-140
Dibromochloromethane	50	50	0.00	49	49	97	97	0.0	20	60-140
Chlorobenzene	50	50	0.00	50	49	99	98	0.8	20	68-140
Ethylbenzene	50	50	0.52	91	90	* 181	* 178	2	20	60-140
Xylenes (total)	150	150	0.00	158	157	105	105	0.6	20	60-140
m+p-Xylenes	100	100	0.32	108	107	108	107	0.9	20	60-140
o-Xylene	50	50	0.00	50	50	100	101	[illegible]	[illegible]	[illegible]
Bromoform	50	50	0.00	48	46	95	91	4	20	60-140
1,1,2,2-Tetrachloroethane	50	50	0.00	56	53	113	105	7	20	60-140

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 11/25/03 11/25/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.72

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	ICAL 0.02PPM	11/25/03	0939	11.72	
02	ICAL	ICAL 0.05PPM	11/25/03	0957	11.72	
03	ICAL	ICAL 0.10PPM	11/25/03	1015	11.72	
04	ICAL	ICAL 0.25PPM	11/25/03	1034	11.72	
05	ICAL	ICAL 0.50PPM	11/25/03	1052	11.72	
06	ICAL	ICAL 1.0PPM	11/25/03	1110	11.71	
07	ICAL	ICAL 2.5PPM	11/25/03	1128	11.69	
08	WG4775-BLANK	WG4775-1	11/25/03	1147	11.69	
09	WG4775-LCS	WG4775-2	11/25/03	1205	11.71	
10	WG4775-LCSD	WG4775-3	11/25/03	1223	11.69	
11	CV	DBCM	11/25/03	1241	11.71	
12	CV	QC 0.25PPM	11/25/03	1300	11.69	
13	CV	MDL	11/25/03	1318	11.69	
14	FC-MW-06-110	WT2841-1	11/25/03	1336	11.69	
15	KWDUP-01-110	WT2841-2	11/25/03	1354	11.69	
16	FC-MW-05-110	WT2841-4	11/25/03	1413	11.69	
17	FC-MW-22-110	WT2841-6	11/25/03	1431	11.68	
18	FC-MW-22-110	WG4775-4	11/25/03	1449	11.68	
19	FC-MW-22-110	WG4775-5	11/25/03	1507	11.68	
20	CV	CV 0.5PPM	11/25/03	1544	11.72	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

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

Katahdin Analytical Services 9000008

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 11/25/03 11/25/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 11.00					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	ICAL 0.02PPM	11/25/03	0939	11.03	
02	ICAL	ICAL 0.05PPM	11/25/03	0957	11.04	
03	ICAL	ICAL 0.10PPM	11/25/03	1015	11.03	
04	ICAL	ICAL 0.25PPM	11/25/03	1034	11.04	
05	ICAL	ICAL 0.50PPM	11/25/03	1052	11.03	
06	ICAL	ICAL 1.0PPM	11/25/03	1110	11.00	
07	ICAL	ICAL 2.5PPM	11/25/03	1128	10.99	
08	WG4775-BLANK	WG4775-1	11/25/03	1147	11.00	
09	WG4775-LCS	WG4775-2	11/25/03	1205	11.00	
10	WG4775-LCSD	WG4775-3	11/25/03	1223	11.00	
11	CV	DBCM	11/25/03	1241	11.00	
12	CV	QC 0.25PPM	11/25/03	1300	11.00	
13	CV	MDL	11/25/03	1318	11.00	
14	FC-MW-06-110	WT2841-1	11/25/03	1336	11.00	
15	KWDUP-01-110	WT2841-2	11/25/03	1354	11.00	
16	FC-MW-05-110	WT2841-4	11/25/03	1413	11.00	
17	FC-MW-22-110	WT2841-6	11/25/03	1431	10.99	
18	FC-MW-22-110	WG4775-4	11/25/03	1449	10.99	
19	FC-MW-22-110	WG4775-5	11/25/03	1507	10.99	
20	CV	CV 0.5PPM	11/25/03	1544	11.03	

QC LIMITS

TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

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

Katahdin Analytical Services 9000009

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column(1): SPB 608 ID: 0.53 (mm)GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	S2 1 REC#	S2 2 REC#	S3 1 REC#	S3 2 REC#	TOT OUT
01	WG4775-BLANK	WG4775-1	141*	152*					2
02	WG4775-LCS	WG4775-2	148*	152*					2
03	WG4775-LCSD	WG4775-3	151*	164*					2
04	FC-MW-06-1103	WT2841-1	152*	160*					2
05	KWDUP-01-1103	WT2841-2	160*	169*					2
06	FC-MW-05-1103	WT2841-4	132*	133*					2
07	FC-MW-22-1103	WT2841-6	162*	162*					2
08	FC-MW-22-1103MS	WG4775-4	182*	185*					2
09	FC-MW-22-1103MSD	WG4775-5	191*	197*					2
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-M-Xylene (57-128)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Katahdin Analytical Services 9000003

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER

Lab ID: WG4775-2 & WG4775-3
Client ID: WG4775-LCS & WG4775-LCSD
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.25	0.25	NA	0.19	0.35	77	*	141	*	58	30	70-130

FORM III PEST-1

3tk1057.d & 3tk1058.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 12/05/2003
Matrix: WATER

Lab ID: WG4775-4 & WG4775-5
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.23	0.24	0.00	0.32	0.37	* 139	* 155	12	30	70-130

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD528 DFTPP Injection Date: 11/12/03

Instrument ID: GCMS-U DFTPP Injection Time: 1145

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Less than 100.0% of mass 198	53.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.5
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	8.5 (54.6)2
442	40.0 - 100.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.5 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD050U1112	U5287	11/12/03	1204
02		SSTD200U1112	U5288	11/12/03	1255
03		SSTD010U1112	U5289	11/12/03	1340
04		SSTD020U1112	U5290	11/12/03	1425
05		SSTD120U1112	U5291	11/12/03	1511
06		SSTD160U1112	U5292	11/12/03	1555
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	1.385	1.574	1.609	1.449	1.575	1.440	AVRG		1.50539	6.114	15.000	
Bis(2-Chloroethyl)ether	1.081	1.239	1.209	1.125	1.177	1.097	AVRG		1.15459	5.507	15.000	
2-Chlorophenol	1.162	1.268	1.232	1.112	1.172	1.092	AVRG		1.17288	5.744	15.000	
1,3-Dichlorobenzene	1.345	1.425	1.353	1.247	1.298	1.182	AVRG		1.30835	6.550	15.000	
1,4-Dichlorobenzene	1.304	1.442	1.377	1.256	1.298	1.172	AVRG		1.30817	7.167	15.000	
1,2-Dichlorobenzene	1.242	1.338	1.278	1.154	1.187	1.065	AVRG		1.21069	7.990	15.000	
2-Methylphenol	1.030	1.122	1.130	1.018	1.117	1.082	AVRG		1.08305	4.516	15.000	
2,2'-Oxybis(1-Chloropropane)	1.060	1.107	1.042	0.945	1.011	0.951	AVRG		1.01928	6.217	15.000	
4-Methylphenol	1.027	1.178	1.164	1.040	1.148	1.105	AVRG		1.11022	5.826	15.000	
N-Nitroso-di-n-propylamine	0.958	1.066	1.020	0.924	0.986	0.867	AVRG		0.97012	7.250	15.000	
Hexachloroethane	0.537	0.592	0.545	0.514	0.530	0.467	AVRG		0.53083	7.665	15.000	
Nitrobenzene	0.347	0.391	0.374	0.369	0.411	0.380	AVRG		0.37887	5.716	15.000	
Isophorone	0.608	0.657	0.640	0.618	0.696	0.665	AVRG		0.64746	4.998	15.000	
2-Nitrophenol	0.133	0.164	0.170	0.165	0.178	0.171	AVRG		0.16372	9.650	15.000	
2,4-Dimethylphenol	0.282	0.320	0.327	0.304	0.337	0.327	AVRG		0.31634	6.318		
Bis(2-Chloroethoxy)methane	0.351	0.385	0.378	0.364	0.401	0.372	AVRG		0.37524	4.[illegible]		
2,4-Dichlorophenol	0.212	0.252	0.253	0.243	0.258	0.239	AVRG		0.24265	6.[illegible]	15.[illegible]	
1,2,4-Trichlorobenzene	0.265	0.287	0.269	0.256	0.268	0.244	AVRG		0.26503	5.451	15.000	
Naphthalene	0.947	1.009	0.890	0.879	0.912	0.761	AVRG		0.89980	9.182	15.000	
4-Chloroaniline	0.276	0.331	0.336	0.294	0.294	0.317	AVRG		0.30819	7.658	15.000	
Hexachlorobutadiene	0.130	0.139	0.127	0.122	0.130	0.116	AVRG		0.12750	6.088	15.000	
4-Chloro-3-Methylphenol	0.218	0.254	0.264	0.218	0.245	0.242	AVRG		0.24038	7.777	15.000	
2-Methylnaphthalene	0.537	0.589	0.574	0.537	0.565	0.542	AVRG		0.55740	3.933	15.000	
Hexachlorocyclopentadiene	0.193	0.239	0.263	0.257	0.282	0.257	AVRG		0.24863	12.326	15.000	
2,4,6-Trichlorophenol	0.258	0.296	0.298	0.283	0.303	0.287	AVRG		0.28771	5.626	15.000	
2,4,5-Trichlorophenol	0.249	0.298	0.322	0.313	0.334	0.307	AVRG		0.30382	9.722	15.000	
2-Chloronaphthalene	0.928	0.986	0.897	0.819	0.811	0.721	AVRG		0.86050	11.075	15.000	
2-Nitroaniline	0.241	0.281	0.312	0.306	0.335	0.328	AVRG		0.30061	11.560	15.000	
Dimethyl Phthalate	1.006	1.089	1.017	0.996	1.028	0.973	AVRG		1.01817	3.89[illegible]		
Acenaphthylene	1.618	1.753	1.522	1.511	1.545	1.318	AVRG		1.54441	9.25[illegible]		
2,6-Dinitrotoluene	0.218	0.243	0.235	0.236	0.245	0.233	AVRG		0.23502	4.003	15.000	
3-Nitroaniline	0.173	0.213	0.234	0.226	0.222	0.235	AVRG		0.21713	10.696	15.000	
Acenaphthene	1.029	1.079	0.932	0.941	0.965	0.807	AVRG		0.95913	9.719	15.000	
2,4-Dinitrophenol	0.016	0.069	0.131	0.142	0.158	0.168	AVRG		0.11411	51.978	15.000	<-
4-Nitrophenol	25700	66368	223840	458210	683610	1036500	LINR	0.15084	6.38620	0.99855	0.99000	
Dibenzofuran	1.259	1.348	1.269	1.194	1.214	1.120	AVRG		1.23400	6.283	15.000	
2,4-Dinitrotoluene	0.280	0.322	0.323	0.328	0.325	0.323	AVRG		0.31682	5.668	15.000	
Diethylphthalate	3.816	2.220	1.708	1.159	1.062	1.194	AVRG		1.85952	56.660	15.000	<-
4-Chlorophenyl-phenylether	0.445	0.478	0.444	0.440	0.444	0.405	AVRG		0.44272	5.216	15.000	
Fluorene	1.121	1.200	1.052	1.089	1.077	0.919	AVRG		1.07623	8.600	15.000	
4-Nitroaniline	41046	95856	362590	703290	964380	1558200	LINR	0.12691	4.32641	0.99423	0.99000	
4,6-Dinitro-2-Methylphenol	25933	72263	303730	602980	881310	1324500	LINR	0.17137	7.51406	0.99842	0.99000	
N-Nitrosodiphenylamine	0.449	0.490	0.468	0.441	0.473	0.423	AVRG		0.45729	5.302	15.000	
4-Bromophenyl-phenylether	0.146	0.160	0.151	0.146	0.157	0.140	AVRG		0.15009	5.141	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Hexachlorobenzene	0.165	0.173	0.159	0.150	0.161	0.146	AVRG		0.15908	6.071	15.000
Pentachlorophenol	27092	76487	271480	527790	732140	1068100	LINR	7e-002	9.33988	0.99891	0.99000
Phenanthrene	1.008	1.076	0.925	0.923	0.955	0.800	AVRG		0.94785	9.801	15.000
Anthracene	0.973	1.025	0.922	0.913	0.953	0.804	AVRG		0.93180	7.967	15.000
Carbazole	0.756	0.802	0.787	0.755	0.773	0.721	AVRG		0.76573	3.718	15.000
Di-n-butylphthalate	1.046	1.125	1.041	1.012	0.988	0.891	AVRG		1.01718	7.593	15.000
Fluoranthene	0.970	0.999	0.873	0.904	0.889	0.768	AVRG		0.90052	9.033	15.000
Pyrene	1.603	1.563	1.289	1.352	1.368	1.220	AVRG		1.39946	10.875	15.000
Butylbenzylphthalate	0.730	0.719	0.641	0.656	0.672	0.637	AVRG		0.67587	5.861	15.000
3,3'-Dichlorobenzidine	0.209	0.225	0.236	0.206	0.230	0.221	AVRG		0.22129	5.398	15.000
Benzo(a)anthracene	1.122	1.148	0.990	1.055	1.122	0.997	AVRG		1.07226	6.362	15.000
Chrysene	1.076	1.110	0.915	0.958	1.015	0.884	AVRG		0.99310	9.044	15.000
bis(2-Ethylhexyl)phthalate	0.948	0.983	0.900	0.908	0.910	0.851	AVRG		0.91668	4.898	15.000
Di-n-octylphthalate	1.736	1.953	1.822	2.024	1.829	1.790	AVRG		1.85893	5.79[illegible]	15.000
Benzo(b)fluoranthene	1.137	1.307	1.129	1.243	1.279	1.199	AVRG		1.21570	6.08[illegible]	[illegible]
Benzo(k)fluoranthene	1.325	1.396	1.160	1.262	1.249	1.092	AVRG		1.24738	8.[illegible]	[illegible]
Benzo(a)pyrene	0.924	1.030	0.975	1.048	1.110	0.988	AVRG		1.01269	6.3[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	0.586	0.673	0.750	0.768	0.898	0.789	AVRG		0.74387	14.274	15.000
Dibenzo(a,h)anthracene	0.598	0.653	0.730	0.746	0.865	0.760	AVRG		0.72519	12.715	15.000
Benzo(g,h,i)perylene	0.845	0.943	0.895	0.867	0.940	0.814	AVRG		0.88402	5.868	15.000
2-Fluorophenol	0.905	1.076	1.051	1.047	1.138	1.030	AVRG		1.04127	7.371	15.000
Phenol-D6	1.318	1.517	1.426	1.345	1.466	1.329	AVRG		1.40014	5.836	15.000
Nitrobenzene-D5	0.349	0.384	0.376	0.370	0.412	0.383	AVRG		0.37919	5.474	15.000
2-Fluorobiphenyl	1.069	1.166	1.036	1.000	1.029	0.896	AVRG		1.03268	8.528	15.000
2,4,6-Tribromophenol	0.100	0.118	0.116	0.122	0.119	0.110	AVRG		0.11411	6.742	15.000
Terphenyl-D14	0.928	0.894	0.764	0.785	0.804	0.746	AVRG		0.82018	9.004	15.000

Average %RSD test result.

Calculate Average %RSD: 9.487401009
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 2FP#	S2 PHL#	S3 NBZ#	S4 FBP#	S5 TBP#	S6 TPH#	S7 #	S8 #	TOT OUT
01	WG4553-BLANK	WG4553-1	78	90	84	88	96	126			0
02	WG4553-LCS	WG4553-2	76	88	79	85	99	110			0
03	WG4553-LCSD	WG4553-3	58	72	86	89	92	98			0
04	KW-RINS-01-1103	WT2841-5	7*	39	0*	83	31	126			2
05	KW-RINS-01-1103	WT2841-5RE	1*	14	18*	93	38	104			2
06	WG4766-LCS	WG4766-2	77	83	88	91	98	98			0
07	WG4766-LCSD	WG4766-3	82	86	80	85	94	90			0
08	WG4766-BLANK	WG4766-1	25	26	68	76	26	98			0
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (2FP) = 2-Fluorophenol	(20- 95)
S2 (PHL) = Phenol-D6	(10-115)
S3 (NBZ) = Nitrobenzene-D5	(36-117)
S4 (FBP) = 2-Fluorobiphenyl	(47-114)
S5 (TBP) = 2,4,6-Tribromophenol	(20-137)
S6 (TPH) = Terphenyl-D14	(35-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD535 DFTPP Injection Date: 11/20/03

Instrument ID: GCMS-U DFTPP Injection Time: 1319

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Less than 100.0% of mass 198	58.5
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	53.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	20.9
365	1.0 - 100.0% of mass 198	2.6
441	0.0 - 100.0% of mass 443	11.2 (77.8)2
442	40.0 - 100.0% of mass 198	71.9
443	17.0 - 23.0% of mass 442	14.4 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD050U1120	U5386	11/20/03	1402
02	WG4553-BLANK	WG4553-1	U5392	11/20/03	1833
03	WG4553-LCS	WG4553-2	U5393	11/20/03	1917
04	WG4553-LCSD	WG4553-3	U5394	11/20/03	2002
05	KW-RINS-01-1103	WT2841-5	U5395	11/20/03	2047
06					
07					
08					
09					
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15					
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17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.5147000	1.5147000	0.01	0.64	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.1781000	1.1781000	0.01	2.00	100.00	AVRG
2-Chlorophenol	1.1730000	1.1888000	1.1888000	0.01	1.35	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3183000	1.3183000	0.01	0.79	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3351000	1.3351000	0.01	2.07	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2390000	1.2390000	0.01	2.31	100.00	AVRG
2-Methylphenol	1.0830000	1.0792000	1.0792000	0.01	-0.35	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	0.9845700	0.9845700	0.01	-3.38	100.00	AVRG
4-Methylphenol	1.1100000	1.1151000	1.1151000	0.01	0.46	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	0.9800200	0.9800200	0.05	1.03	100.00	AVRG
Hexachloroethane	0.5310000	0.5489500	0.5489500	0.01	3.38	100.00	AVRG
Nitrobenzene	0.3790000	0.3775500	0.3775500	0.01	-0.38	100.00	AVRG
Isophorone	0.6470000	0.6464500	0.6464500	0.01	-0.08	100.00	AVRG
2-Nitrophenol	0.1640000	0.1726700	0.1726700	0.01	5.29	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3257100	0.3257100	0.01	3.07	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.3792900	0.3792900	0.01	1.14	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2523400	0.2523400	0.01	3.84	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2763600	0.2763600	0.01	4.29	100.00	AVRG
Naphthalene	0.9000000	0.9006200	0.9006200	0.01	0.07	100.00	AVRG
4-Chloroaniline	0.3080000	0.3117100	0.3117100	0.01	1.20	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1315000	0.1315000	0.01	3.54	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2647200	0.2647200	0.01	10.30	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.5736800	0.5736800	0.01	2.99	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2609400	0.2609400	0.05	5.22	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.2925500	0.2925500	0.01	1.58	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3075600	0.3075600	0.01	1.17	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.8769900	0.8769900	0.01	1.98	100.00	AVRG
2-Nitroaniline	0.3000000	0.2867100	0.2867100	0.01	-4.43	100.00	AVRG
Dimethyl Phthalate	1.0180000	0.9882000	0.9882000	0.01	-2.93	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.5440000	1.4943000	1.4943000	0.01	-3.22	100.00	AVRG
2,6-Dinitrotoluene	0.2350000	0.2296100	0.2296100	0.01	-2.29	100.00	AVRG
3-Nitroaniline	0.2170000	0.1980700	0.1980700	0.01	-8.72	100.00	AVRG
Acenaphthene	0.9590000	0.9204000	0.9204000	0.01	-4.02	20.00	AVRG
2,4-Dinitrophenol	0.1140000	0.1204300	0.1204300	0.05	5.64	100.00	AVRG
4-Nitrophenol	43.205000	50.000000	0.1164100	0.05	-13.59	100.00	LINR
Dibenzofuran	1.2340000	1.2228000	1.2228000	0.01	-0.91	100.00	AVRG
2,4-Dinitrotoluene	0.3170000	0.3002600	0.3002600	0.01	-5.28	100.00	AVRG
Diethylphthalate	1.8600000	0.9880300	0.9880300	0.01	-46.88	100.00	AVRG
4-Chlorophenyl-phenylether	0.4430000	0.4365000	0.4365000	0.01	-1.47	100.00	AVRG
Fluorene	1.0760000	1.0298000	1.0298000	0.01	-4.29	100.00	AVRG
4-Nitroaniline	43.273000	50.000000	0.1765800	0.01	-13.45	100.00	LINR
4,6-Dinitro-2-Methylphenol	50.014000	50.000000	0.1148800	0.01	0.03	100.00	LINR
N-Nitrosodiphenylamine	0.4570000	0.4650600	0.4650600	0.01	1.76	20.00	AVRG
4-Bromophenyl-phenylether	0.1500000	0.1522500	0.1522500	0.01	1.50	100.00	AVRG
Hexachlorobenzene	0.1590000	0.1617000	0.1617000	0.01	1.70	100.00	AVRG
Pentachlorophenol	50.652000	50.000000	0.1028200	0.01	1.30	20.00	LINR
Phenanthrene	0.9480000	0.9040400	0.9040400	0.01	-4.64	100.00	AVRG
Anthracene	0.9320000	0.9038100	0.9038100	0.01	-3.02	100.00	AVRG
Carbazole	0.7660000	0.7274400	0.7274400	0.01	-5.03	100.00	AVRG
Di-n-butylphthalate	1.0170000	1.0416000	1.0416000	0.01	2.42	100.00	AVRG
Fluoranthene	0.9000000	0.8189900	0.8189900	0.01	-9.00	20.00	AVRG
Pyrene	1.3990000	1.3093000	1.3093000	0.01	-6.41	100.00	AVRG
Butylbenzylphthalate	0.6760000	0.6567700	0.6567700	0.01	-2.84	100.00	AVRG
3,3'-Dichlorobenzidine	0.2210000	0.1972300	0.1972300	0.01	-10.76	100.00	AVRG
Benzo(a)anthracene	1.0720000	0.9802900	0.9802900	0.01	-8.56	100.00	AVRG
Chrysene	0.9930000	0.9083900	0.9083900	0.01	-8.52	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.9170000	0.9474000	0.9474000	0.01	3.32	100.00	AVRG
Di-n-octylphthalate	1.8590000	1.7753000	1.7753000	0.01	-4.50	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.0965000	1.0965000	0.01	-9.83	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.1350000	1.1350000	0.01	-8.98	100.00	AVRG
Benzo(a)pyrene	1.0120000	0.9551000	0.9551000	0.01	-5.62	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.7510700	0.7510700	0.01	0.95	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.7116800	0.7116800	0.01	-1.84	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.8802700	0.8802700	0.01	-0.42	100.00	AVRG
2-Fluorophenol	1.0410000	1.0402000	1.0402000	0.01	-0.08	100.00	AVRG
Phenol-D6	1.4000000	1.3490000	1.3490000	0.01	-3.64	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3768200	0.3768200	0.01	-0.58	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0284000	1.0284000	0.01	-0.44	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1085900	0.1085900	0.01	-4.74	100.00	AVRG
Terphenyl-D14	0.8200000	0.7792300	0.7792300	0.01	-4.97	100.00	AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4553-2 & WG4553-3
Client ID: WG4553-LCS & WG4553-LCSD
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	72	61	72	61	18	30	12-126
Bis(2-Chloroethyl)ether	50	50	NA	40	40	79	80	2	30	52-115
2-Chlorophenol	100	100	NA	70	60	70	60	14	30	46-114
1,3-Dichlorobenzene	50	50	NA	26	30	52	60	14	30	40- 99
1,4-Dichlorobenzene	50	50	NA	27	31	55	62	12	30	40- 99
1,2-Dichlorobenzene	50	50	NA	30	33	59	66	10	30	44-101
2-Methylphenol	100	100	NA	76	75	76	75	1	30	50-110
2,2'-Oxybis(1-Chloropropane)	50	50	NA	37	35	74	70	5	30	54-114
4-Methylphenol	100	100	NA	82	76	82	76	6	30	46-119
N-Nitroso-di-n-propylamine	50	50	NA	37	38	75	75	0.8	30	52-108
Hexachloroethane	50	50	NA	22	26	43	52	20	30	30- 99
Nitrobenzene	50	50	NA	34	36	68	73	8	30	49-113
Isophorone	50	50	NA	36	37	71	74	4	30	42-106
2-Nitrophenol	100	100	NA	70	34	70 *	34 *	69	30	47-121
2,4-Dimethylphenol	100	100	NA	70	73	70	73	[illegible]	[illegible]	[illegible]
Bis(2-Chloroethoxy)methane	50	50	NA	36	39	72	78	[illegible]	[illegible]	[illegible]
2,4-Dichlorophenol	100	100	NA	73	67	73	67	[illegible]	30	48-115
1,2,4-Trichlorobenzene	50	50	NA	28	33	57	66	15	30	39-105
Naphthalene	50	50	NA	33	36	66	72	9	30	46-110
4-Chloroaniline	50	50	NA	44	49	87	97	11	30	19-125
Hexachlorobutadiene	50	50	NA	24	29	47	58	21	30	28-109
4-Chloro-3-Methylphenol	100	100	NA	85	73	85	73	16	30	52-121
2-Methylnaphthalene	50	50	NA	40	44	80	88	9	30	51-108
Hexachlorocyclopentadiene	50	50	NA	16	17	31	33	7	30	0- 90
2,4,6-Trichlorophenol	100	100	NA	74	68	74	68	9	30	51-120
2,4,5-Trichlorophenol	100	100	NA	75	65	75	65	15	30	53-120
2-Chloronaphthalene	50	50	NA	41	46	82	91	11	30	44-156
2-Nitroaniline	50	50	NA	44	46	87	91	4	30	53-127
Dimethyl Phthalate	50	50	NA	42	42	83	84	[illegible]	[illegible]	[illegible]
Acenaphthylene	50	50	NA	35	37	70	74	[illegible]	[illegible]	[illegible]
2,6-Dinitrotoluene	50	50	NA	41	42	83	84	2	30	51-120
3-Nitroaniline	50	50	NA	48	50	96	101	5	30	48-124
Acenaphthene	50	50	NA	36	38	72	75	5	30	52-113
2,4-Dinitrophenol	100		NA	80		80			30	22-155
4-Nitrophenol	100		NA	65		65			30	6-132
Dibenzofuran	50	50	NA	44	45	87	91	4	30	54-111
2,4-Dinitrotoluene	50	50	NA	40	40	80	79	0.8	30	50-119
Diethylphthalate	50	50	NA	23	23	46	46	0.9	30	31-129
4-Chlorophenyl-phenylether	50	50	NA	40	41	80	82	3	30	56-115
Fluorene	50	50	NA	38	40	77	79	3	30	56-115
4-Nitroaniline	50	50	NA	43	46	86	92	7	30	50-137
4,6-Dinitro-2-Methylphenol	100	100	NA	82	10	82 *	10 *	160	30	43-151
N-Nitrosodiphenylamine	100	100	NA	86	86	86	86	0.7	30	67-131
4-Bromophenyl-phenylether	50	50	NA	44	44	87	88	0.2	30	59-118
Hexachlorobenzene	50	50	NA	42	41	84	83	2	30	55-116

Katahdin Analytical Services 2000010

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4553-2 & WG4553-3
Client ID: WG4553-LCS & WG4553-LCSD
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	78	21	78	*	21	*	120	30	38-148
Phenanthrene	50	50	NA	40	41	81		82		1	30	56-117
Anthracene	50	50	NA	40	41	81		82		0.7	30	56-117
Carbazole	50	50	NA	45	48	91		96		6	30	63-133
Di-n-butylphthalate	50	50	NA	46	46	92		92		0.2	30	43-136
Fluoranthene	50	50	NA	37	40	75		79		6	30	51-129
Pyrene	50	50	NA	43	39	85		79		8	30	46-133
Butylbenzylphthalate	50	50	NA	45	42	91		85		7	30	31-156
3,3'-Dichlorobenzidine	50	50	NA	88	97	176	*	195	*	10	30	30-128
Benzo(a)anthracene	50	50	NA	37	38	73		76		3	30	54-118
Chrysene	50	50	NA	33	34	66		68		4	30	57-119
bis(2-Ethylhexyl)phthalate	50	50	NA	104	47	208	*	93	*	76	30	43-151
Di-n-octylphthalate	50	50	NA	49	45	98		90		8	30	42-166
Benzo(b)fluoranthene	50	50	NA	39	39	78		77		0.2	30	48-129
Benzo(k)fluoranthene	50	50	NA	38	39	77		78		[illegible]	[illegible]	[illegible]
Benzo(a)pyrene	50	50	NA	39	40	78		80		[illegible]	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	50	50	NA	38	38	77		75		[illegible]	[illegible]	[illegible]
Dibenzo(a,h)anthracene	50	50	NA	38	38	76		75		0.8	30	45-118
Benzo(g,h,i)perylene	50	50	NA	37	36	74		71		4	30	46-121

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD540 DFTPP Injection Date: 11/26/03

Instrument ID: GCMS-U DFTPP Injection Time: 0948

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.5
68	Less than 2.0% of mass 69	0.8 (1.3)1
69	Less than 100.0% of mass 198	61.0
70	Less than 2.0% of mass 69	0.5 (0.8)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.9
441	0.0 - 100.0% of mass 443	11.5 (75.6)2
442	40.0 - 100.0% of mass 198	75.5
443	17.0 - 23.0% of mass 442	15.2 (20.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD050U1126	U5466	11/26/03	1006
02	KW-RINS-01-1103	WT2841-5RE	U5478	11/26/03	1905
03	WG4766-LCS	WG4766-2	U5479	11/26/03	1950
04	WG4766-LCSD	WG4766-3	U5480	11/26/03	2034
05	WG4766-BLANK	WG4766-1	U5481	11/26/03	2119
06					
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.4835000	1.4835000	0.01	-1.43	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.2185000	1.2185000	0.01	5.50	100.00	AVRG
2-Chlorophenol	1.1730000	1.2194000	1.2194000	0.01	3.96	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3482000	1.3482000	0.01	3.07	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3776000	1.3776000	0.01	5.32	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2615000	1.2615000	0.01	4.17	100.00	AVRG
2-Methylphenol	1.0830000	1.1144000	1.1144000	0.01	2.90	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	1.0911000	1.0911000	0.01	7.08	100.00	AVRG
4-Methylphenol	1.1100000	1.1524000	1.1524000	0.01	3.82	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	1.0575000	1.0575000	0.05	9.02	100.00	AVRG
Hexachloroethane	0.5310000	0.5630500	0.5630500	0.01	6.04	100.00	AVRG
Nitrobenzene	0.3790000	0.4047200	0.4047200	0.01	6.79	100.00	AVRG
Isophorone	0.6470000	0.6949700	0.6949700	0.01	7.41	100.00	AVRG
2-Nitrophenol	0.1640000	0.1782700	0.1782700	0.01	8.70	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3404900	0.3404900	0.01	7.75	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.4061000	0.4061000	0.01	8.29	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2709000	0.2709000	0.01	11.48	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2785900	0.2785900	0.01	5.13	100.00	AVRG
Naphthalene	0.9000000	0.9280900	0.9280900	0.01	3.12	100.00	AVRG
4-Chloroaniline	0.3080000	0.3677800	0.3677800	0.01	19.41	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1359300	0.1359300	0.01	7.03	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2826500	0.2826500	0.01	17.77	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.6118100	0.6118100	0.01	9.84	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2101900	0.2101900	0.05	-15.25	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.2960800	0.2960800	0.01	2.80	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3197900	0.3197900	0.01	5.19	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.8785300	0.8785300	0.01	2.15	100.00	AVRG
2-Nitroaniline	0.3000000	0.3218200	0.3218200	0.01	7.27	100.00	AVRG
Dimethyl Phthalate	1.0180000	1.0733000	1.0733000	0.01	5.43	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.5440000	1.5553000	1.5553000	0.01	0.73	100.00	AVRG
2,6-Dinitrotoluene	0.2350000	0.2558500	0.2558500	0.01	8.87	100.00	AVRG
3-Nitroaniline	0.2170000	0.2402200	0.2402200	0.01	10.70	100.00	AVRG
Acenaphthene	0.9590000	0.9459400	0.9459400	0.01	-1.36	20.00	AVRG
2,4-Dinitrophenol	0.1140000	0.1089000	0.1089000	0.05	-4.47	100.00	AVRG
4-Nitrophenol	43.003000	50.000000	0.1157800	0.05	-13.99	100.00	LINR
Dibenzofuran	1.2340000	1.2891000	1.2891000	0.01	4.46	100.00	AVRG
2,4-Dinitrotoluene	0.3170000	0.3436800	0.3436800	0.01	8.42	100.00	AVRG
Diethylphthalate	1.8600000	1.0786000	1.0786000	0.01	-42.01	100.00	AVRG
4-Chlorophenyl-phenylether	0.4430000	0.4640300	0.4640300	0.01	4.75	100.00	AVRG
Fluorene	1.0760000	1.0883000	1.0883000	0.01	1.14	100.00	AVRG
4-Nitroaniline	53.382000	50.000000	0.2233000	0.01	6.76	100.00	LINR
4,6-Dinitro-2-Methylphenol	49.257000	50.000000	0.1128600	0.01	-1.49	100.00	LINR
N-Nitrosodiphenylamine	0.4570000	0.4770600	0.4770600	0.01	4.39	20.00	AVRG
4-Bromophenyl-phenylether	0.1500000	0.1591700	0.1591700	0.01	6.11	100.00	AVRG
Hexachlorobenzene	0.1590000	0.1677000	0.1677000	0.01	5.47	100.00	AVRG
Pentachlorophenol	49.647000	50.000000	0.1006700	0.01	-0.71	20.00	LINR
Phenanthrene	0.9480000	0.9428300	0.9428300	0.01	-0.54	100.00	AVRG
Anthracene	0.9320000	0.9375000	0.9375000	0.01	0.59	100.00	AVRG
Carbazole	0.7660000	0.8101300	0.8101300	0.01	5.76	100.00	AVRG
Di-n-butylphthalate	1.0170000	1.1430000	1.1430000	0.01	12.39	100.00	AVRG
Fluoranthene	0.9000000	0.8872700	0.8872700	0.01	-1.41	20.00	AVRG
Pyrene	1.3990000	1.2979000	1.2979000	0.01	-7.23	100.00	AVRG
Butylbenzylphthalate	0.6760000	0.6907000	0.6907000	0.01	2.17	100.00	AVRG
3,3'-Dichlorobenzidine	0.2210000	0.2475500	0.2475500	0.01	12.01	100.00	AVRG
Benzo(a)anthracene	1.0720000	0.9820300	0.9820300	0.01	-8.39	100.00	AVRG
Chrysene	0.9930000	0.9685900	0.9685900	0.01	-2.46	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.9170000	0.9751000	0.9751000	0.01	6.34	100.00	AVRG
Di-n-octylphthalate	1.8590000	2.0717000	2.0717000	0.01	11.44	20.00	AVRG

Katahdin Analytical Services 2000034

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.1471000	1.1471000	0.01	-5.67	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.3311000	1.3311000	0.01	6.74	100.00	AVRG
Benzo(a)pyrene	1.0120000	1.0663000	1.0663000	0.01	5.36	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.6027200	0.6027200	0.01	-18.99	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.6970500	0.6970500	0.01	-3.86	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.6978500	0.6978500	0.01	-21.06	100.00	AVRG
2-Fluorophenol	1.0410000	1.0234000	1.0234000	0.01	-1.69	100.00	AVRG
Phenol-D6	1.4000000	1.3563000	1.3563000	0.01	-3.12	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3945500	0.3945500	0.01	4.10	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0615000	1.0615000	0.01	2.76	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1190000	0.1190000	0.01	4.39	100.00	AVRG
Terphenyl-D14	0.8200000	0.7994600	0.7994600	0.01	-2.50	100.00	AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4766-2 & WG4766-3
Client ID: WG4766-LCS & WG4766-LCSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	71	78	71	78		10	30	12-126
Bis(2-Chloroethyl)ether	50	50	NA	47	42	93	83		12	30	52-115
2-Chlorophenol	100	100	NA	77	74	77	74		3	30	46-114
1,3-Dichlorobenzene	50	50	NA	38	35	77	71		8	30	40- 99
1,4-Dichlorobenzene	50	50	NA	39	36	79	72		9	30	40- 99
1,2-Dichlorobenzene	50	50	NA	40	37	80	75		7	30	44-101
2-Methylphenol	100	100	NA	80	77	80	77		3	30	50-110
2,2'-Oxybis(1-Chloropropane)	50	50	NA	43	40	86	80		8	30	54-114
4-Methylphenol	100	100	NA	82	80	82	80		2	30	46-119
N-Nitroso-di-n-propylamine	50	50	NA	40	37	81	74		8	30	52-108
Hexachloroethane	50	50	NA	37	34	74	68		8	30	30- 99
Nitrobenzene	50	50	NA	41	38	81	77		6	30	49-113
Isophorone	50	50	NA	39	36	78	73		7	30	49-106
2-Nitrophenol	100	100	NA	57	75	57	75		28	30	47-[illegible]
2,4-Dimethylphenol	100	100	NA	78	73	78	73		[illegible]	[illegible]	[illegible]
Bis(2-Chloroethoxy)methane	50	50	NA	41	38	82	77		[illegible]	[illegible]	[illegible]
2,4-Dichlorophenol	100	100	NA	77	76	77	76		1	[illegible]	48-[illegible]
1,2,4-Trichlorobenzene	50	50	NA	37	35	74	70		6	30	39-105
Naphthalene	50	50	NA	39	37	79	73		7	30	46-110
4-Chloroaniline	50	50	NA	51	44	102	87		16	30	19-125
Hexachlorobutadiene	50	50	NA	38	34	75	69		8	30	28-109
4-Chloro-3-Methylphenol	100	100	NA	85	82	85	82		3	30	52-121
2-Methylnaphthalene	50	50	NA	48	45	96	90		6	30	51-108
Hexachlorocyclopentadiene	50	50	NA	10	10	20	20		1.0	30	0- 90
2,4,6-Trichlorophenol	100	100	NA	76	73	76	73		3	30	51-120
2,4,5-Trichlorophenol	100	100	NA	79	75	79	75		5	30	53-120
2-Chloronaphthalene	50	50	NA	47	42	94	85		10	30	44-156
2-Nitroaniline	50	50	NA	49	45	97	90		7	30	53-127
Dimethyl Phthalate	50	50	NA	45	41	89	82		[illegible]	[illegible]	[illegible]
Acenaphthylene	50	50	NA	39	37	78	74		[illegible]	[illegible]	[illegible]
2,6-Dinitrotoluene	50	50	NA	45	41	90	82		8	30	51-120
3-Nitroaniline	50	50	NA	54	45	108	90		18	30	48-124
Acenaphthene	50	50	NA	40	38	80	75		6	30	52-113
2,4-Dinitrophenol	100	100	NA	13	68	* 13	68	*	140	30	22-155
4-Nitrophenol	100	100	NA	42	62	42	62	*	38	30	6-132
Dibenzofuran	50	50	NA	49	46	97	91		6	30	54-111
2,4-Dinitrotoluene	50	50	NA	43	40	86	80		7	30	50-119
Diethylphthalate	50	50	NA	24	22	49	45		8	30	31-129
4-Chlorophenyl-phenylether	50	50	NA	43	40	87	80		8	30	56-115
Fluorene	50	50	NA	42	39	84	78		8	30	56-115
4-Nitroaniline	50	50	NA	49	45	97	90		8	30	50-137
4,6-Dinitro-2-Methylphenol	100	100	NA	48	74	48	74	*	42	30	43-151
N-Nitrosodiphenylamine	100	100	NA	90	83	90	83		8	30	67-131
4-Bromophenyl-phenylether	50	50	NA	48	42	97	84		14	30	59-118
Hexachlorobenzene	50	50	NA	44	40	89	79		11	30	55-116

Katahdin Analytical Services 2000012

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4766-2 & WG4766-3
Client ID: WG4766-LCS & WG4766-LCSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	63	66	63		66		4	30	38-148
Phenanthrene	50	50	NA	44	40	88		79		10	30	56-117
Anthracene	50	50	NA	44	40	87		79		9	30	56-117
Carbazole	50	50	NA	52	47	104		95		10	30	63-133
Di-n-butylphthalate	50	50	NA	50	46	100		93		7	30	43-136
Fluoranthene	50	50	NA	41	37	82		74		10	30	51-129
Pyrene	50	50	NA	40	37	80		74		8	30	46-133
Butylbenzylphthalate	50	50	NA	44	42	88		83		5	30	31-156
3,3'-Dichlorobenzidine	50	50	NA	94	86	* 188		* 172		9	30	30-128
Benzo(a)anthracene	50	50	NA	38	35	76		69		9	30	54-118
Chrysene	50	50	NA	37	33	73		66		11	30	57-119
bis(2-Ethylhexyl)phthalate	50	50	NA	46	49	93		98		6	30	43-151
Di-n-octylphthalate	50	50	NA	47	43	94		86		8	30	42-166
Benzo(b)fluoranthene	50	50	NA	40	35	80		69		14	30	[illegible]
Benzo(k)fluoranthene	50	50	NA	44	40	87		80		8	[illegible]	[illegible]
Benzo(a)pyrene	50	50	NA	43	39	87		78		[illegible]	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	50	50	NA	50	32	100		63	*	45	30	16-128
Dibenzo(a,h)anthracene	50	50	NA	40	38	80		76		5	30	45-118
Benzo(g,h,i)perylene	50	50	NA	33	32	66		64		4	30	46-121

Katahdin Analytical Services 2000013

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD211 DFTPP Injection Date: 11/13/03

Instrument ID: GCMS-K DFTPP Injection Time: 0806

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	53.4
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	40.0 - 60.0% of mass 198	42.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	19.4
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	1.9 (16.9)2
442	40.0 - 100.0% of mass 198	53.0
443	17.0 - 23.0% of mass 442	11.4 (21.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD1.25K1113	K5601	11/13/03	0845
02		SSTD3.00K1113	K5602	11/13/03	0939
03		SSTD2.50K1113	K5603	11/13/03	1028
04		SSTD2.00K1113	K5604	11/13/03	1118
05		SSTD0.625K1113	K5605	11/13/03	1208
06		SSTD0.125K1113	K5606	11/13/03	1257
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4498-BLANK	WG4498-1	92	78	116						0
02	WG4498-LCS	WG4498-2	63	75	113						0
03	FC-MW-22-1103MS	WG4498-3	83	57	66						0
04	FC-MW-22-1103MSD	WG4498-4	74	55	65						0
05	FC-MW-06-1103	WT2841-1	66	57	88						0
06	KWDUP-01-1103	WT2841-2	80	69	72						0
07	B01-MW-03-1103	WT2841-3	68	52	75						0
08	FC-MW-05-1103	WT2841-4	70	55	75						0
09	B01-MW-01-1103	WT2841-7	70	66	74						0
10	FC-MW-22-1103	WT2841-6DL	D	D	D						0
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD214 DFTPP Injection Date: 11/17/03

Instrument ID: GCMS-K DFTPP Injection Time: 1130

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.6
68	Less than 2.0% of mass 69	0.7 (1.2)1
69	Less than 100.0% of mass 198	60.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.8
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	6.2 (63.6)2
442	40.0 - 100.0% of mass 198	50.5
443	17.0 - 23.0% of mass 442	9.8 (19.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD1.25K1117	K5632	11/17/03	1158
02	WG4498-BLANK	WG4498-1	K5634	11/17/03	1349
03	WG4498-LCS	WG4498-2	K5636	11/17/03	1528
04	FC-MW-22-1103MS	WG4498-3	K5637	11/17/03	1619
05	FC-MW-22-1103MSD	WG4498-4	K5638	11/17/03	1708
06	FC-MW-06-1103	WT2841-1	K5639	11/17/03	1759
07	KWDUP-01-1103	WT2841-2	K5640	11/17/03	1849
08	B01-MW-03-1103	WT2841-3	K5641	11/17/03	1940
09	FC-MW-05-1103	WT2841-4	K5642	11/17/03	2029
10	B01-MW-01-1103	WT2841-7	K5644	11/17/03	2208
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Instrument ID: GCMS-K Calibration Date: 11/17/03 Time: 1158

Lab File ID: K5632 Init. Calib. Date(s): 11/13/03 11/13/03

Init. Calib. Times: 0845 1257

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.9920000	0.9369000	0.01	-5.55		AVRG
2-Methylnaphthalene	0.5300000	0.5319500	0.01	0.37		AVRG
Acenaphthylene	1.7380000	1.5239000	0.01	-12.32		AVRG
Acenaphthene	1.1740000	1.1189000	0.01	-4.69	20.00	AVRG
Fluorene	1.1950000	1.0951000	0.01	-8.36		AVRG
Phenanthrene	0.8820000	0.8547800	0.01	-3.09		AVRG
Anthracene	0.9980000	0.8816800	0.01	-11.66		AVRG
Fluoranthene	0.8730000	0.8655100	0.01	-0.86	20.00	AVRG
Pyrene	1.6260000	2.0516000	0.01	26.18		AVRG
Benzo(a)anthracene	1.2150000	1.2723000	0.01	4.72		AVRG
Chrysene	1.3540000	1.6051000	0.01	18.54		AVRG
Benzo(b)fluoranthene	1.3780000	1.2019000	0.01	-12.78		AVRG
Benzo(k)fluoranthene	1.5710000	1.6612000	0.01	5.74		AVRG
Benzo(a)pyrene	1.2380000	1.1545000	0.01	-6.74	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.9480000	0.8579900	0.01	-9.49		AVRG
Dibenzo(a,h)anthracene	0.8860000	0.9669900	0.01	9.14		AVRG
Benzo(g,h,i)perylene	1.0330000	1.1788000	0.01	14.11		AVRG
1-Methylnaphthalene	0.5130000	0.4666800	0.01	-9.03		AVRG
2-Methylnaphthalene-d10	0.3770000	0.3421200	0.01	-9.25		AVRG
Fluorene-d10	1.0310000	1.1200000	0.01	8.63		AVRG
Pyrene-d10	1.2220000	1.3255000	0.01	8.47		AVRG

FORM VII PEST

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 11/19/2003
Matrix: WATER

Lab ID: WG4498-3 & WG4498-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	1.9	1.9	191	178	143	NC	NC	22	30	30-150
2-Methylnaphthalene	1.9	1.9	59	58	48	NC	NC	18	30	30-150
Acenaphthylene	1.9	1.9	0.00	1.1	1.0	57	54	8	30	30-150
Acenaphthene	1.9	1.9	0.00	1.0	1.0	52	54	2	30	30-150
Fluorene	1.9	1.9	0.00	1.0	0.93	53	50	9	30	30-150
Phenanthrene	1.9	1.9	0.00	1.3	1.2	68	62	10	30	30-150
Anthracene	1.9	1.9	0.00	1.3	1.1	68	57	19	30	30-150
Fluoranthene	1.9	1.9	0.00	1.0	0.79	52	42	24	30	30-150
Pyrene	1.9	1.9	0.00	0.99	1.0	52	55	5	30	30-150
Benzo(a)anthracene	1.9	1.9	0.00	0.85	0.75	44	40	12	30	30-150
Chrysene	1.9	1.9	0.00	0.86	0.76	44	40	12	30	30-150
Benzo(b)fluoranthene	1.9	1.9	0.00	0.77	0.63	40	34	19	30	30-150
Benzo(k)fluoranthene	1.9	1.9	0.00	0.87	0.64	45	34 *	31	30	30-150
Benzo(a)pyrene	1.9	1.9	0.00	0.70	0.55	36 *	29	24	30	30-150
Indeno(1,2,3-cd)pyrene	1.9	1.9	0.00	0.50	0.38 *	26 *	20	26	30	30-150
Dibenzo(a,h)anthracene	1.9	1.9	0.00	0.58	0.44	30 *	23	19	30	30-150
Benzo(g,h,i)perylene	1.9	1.9	0.00	0.63	0.45	33 *	24 *	21	30	30-150

FORM III SV-1

K5637.D & K5638.D

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD215 DFTPP Injection Date: 11/19/03

Instrument ID: GCMS-K DFTPP Injection Time: 1244

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	56.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	20.6
365	1.0 - 100.0% of mass 198	4.2
441	0.0 - 100.0% of mass 443	11.3 (92.1)2
442	40.0 - 100.0% of mass 198	58.5
443	17.0 - 23.0% of mass 442	12.3 (21.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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		SSTD1.25K1119	K5665	11/19/03	1309
02	FC-MW-22-1103	WT2841-6DL	K5666	11/19/03	1358
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL1078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.36e-002	5.e-002	4766700.0	0.01	-12.80	15.00	2RDR	
gamma BHC	4.21e-002	5.e-002	4320600.0	0.01	-15.80	15.00	2RDR	<-
Heptachlor	4.37e-002	5.e-002	4539100.0	0.01	-12.60	15.00	2RDR	
beta-BHC	4.43e-002	5.e-002	2193000.0	0.01	-11.40	15.00	2RDR	
Aldrin	4.31e-002	5.e-002	3983500.0	0.01	-13.80	15.00	2RDR	
delta-BHC	4.5e-002	5.e-002	4324600.0	0.01	-10.00	15.00	2RDR	
Heptachlor Epoxide	4.37e-002	5.e-002	3787600.0	0.01	-12.60	15.00	2RDR	
Endosulfan I	4.31e-002	5.e-002	3794500.0	0.01	-13.80	15.00	2RDR	
4,4'-DDE	4.45e-002	5.e-002	3631500.0	0.01	-11.00	15.00	2RDR	
Dieldrin	4.43e-002	5.e-002	3651600.0	0.01	-11.40	15.00	2RDR	
Endrin	4.41e-002	5.e-002	3302200.0	0.01	-11.80	15.00	2RDR	
4,4'-DDD	4.48e-002	5.e-002	2571500.0	0.01	-10.40	15.00	2RDR	
Endosulfan II	4.51e-002	5.e-002	2873500.0	0.01	-9.80	15.00	2RDR	
4,4'-DDT	4.37e-002	5.e-002	2770900.0	0.01	-12.60	15.00	2RDR	
Endrin Aldehyde	4.41e-002	5.e-002	2145700.0	0.01	-11.80	15.00	2RDR	
Endosulfan sulfate	4.69e-002	5.e-002	1349100.0	0.01	-6.20	15.00	2RDR	
Methoxychlor	4.63e-002	5.e-002	2067500.0	0.01	-7.40	15.00	2RDR	
alpha-Chlordane	4.43e-002	5.e-002	3757000.0	0.01	-11.40	15.00	2RDR	
gamma-Chlordane	4.48e-002	5.e-002	3733500.0	0.01	-10.40	15.00	2RDR	
Endrin Ketone	4.52e-002	5.e-002	2372400.0	0.01	-9.60	15.00	2RDR	
Tetrachloro-m-Xylene	4.67e-002	5.e-002	3239800.0	0.01	-6.60	15.00	2RDR	
Decachlorobiphenyl	4.53e-002	5.e-002	2259700.0	0.01	-9.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL2078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.8e-002	5.e-002	3844000.0	0.01	-4.00	15.00	2RDR
gamma BHC	4.95e-002	5.e-002	3357800.0	0.01	-1.00	15.00	2RDR
Heptachlor	5.04e-002	5.e-002	3269600.0	0.01	0.80	15.00	2RDR
beta-BHC	4.83e-002	5.e-002	1690700.0	0.01	-3.40	15.00	2RDR
Aldrin	4.82e-002	5.e-002	3111800.0	0.01	-3.60	15.00	2RDR
delta-BHC	4.97e-002	5.e-002	3470000.0	0.01	-0.60	15.00	2RDR
Heptachlor Epoxide	4.9e-002	5.e-002	2792900.0	0.01	-2.00	15.00	2RDR
Endosulfan I	4.93e-002	5.e-002	2411700.0	0.01	-1.40	15.00	2RDR
4,4'-DDE	4.94e-002	5.e-002	2459900.0	0.01	-1.20	15.00	2RDR
Dieldrin	4.92e-002	5.e-002	2328500.0	0.01	-1.60	15.00	2RDR
Endrin	4.92e-002	5.e-002	1871300.0	0.01	-1.60	15.00	2RDR
4,4'-DDD	5.04e-002	5.e-002	1536200.0	0.01	0.80	15.00	2RDR
Endosulfan II	4.98e-002	5.e-002	1763000.0	0.01	-0.40	15.00	2RDR
4,4'-DDT	4.85e-002	5.e-002	1483900.0	0.01	-3.00	15.00	2RDR
Endrin Aldehyde	4.96e-002	5.e-002	1260800.0	0.01	-0.80	15.00	2RDR
Endosulfan sulfate	5.13e-002	5.e-002	1262200.0	0.01	2.60	15.00	2RDR
Methoxychlor	5.07e-002	5.e-002	811260.00	0.01	1.40	15.00	2RDR
alpha-Chlordane	4.93e-002	5.e-002	2603900.0	0.01	-1.40	15.00	2RDR
gamma-Chlordane	4.87e-002	5.e-002	2723100.0	0.01	-2.60	15.00	2RDR
Endrin Ketone	4.98e-002	5.e-002	1706800.0	0.01	-0.40	15.00	2RDR
Tetrachloro-m-Xylene	5.2e-002	5.e-002	2489900.0	0.01	4.00	15.00	2RDR
Decachlorobiphenyl	4.97e-002	5.e-002	1847300.0	0.01	-0.60	15.00	2RDR

FORM VII PEST

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column(1): RTX-5 ID: 0.53 (mm)GC Column(2): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG4487-BLANK	WG4487-1	90	92	85	85			0
02	WG4487-LCS	WG4487-2	86	88	88	88			0
03	WG4487-LCSD	WG4487-3	69	70	63	64			0
04	KW-RINS-01-1103	WT2841-5	75	77	36*	37*			2
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (46-100)
S2 (DCB) = Decachlorobiphenyl (54-114)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/12/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER

Lab ID: WG4477-2
Client ID: WG4477-LCS
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4477
Units: ug/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
alpha-BHC	0.50	NA	0.40		81	52-118
gamma BHC	0.50	NA	0.43		87	57-123
Heptachlor	0.50	NA	0.43		86	40-139
beta-BHC	0.50	NA	0.53		106	59-136
Aldrin	0.50	NA	0.43		86	54-116
delta-BHC	0.50	NA	0.45		90	77-127
Heptachlor Epoxide	0.50	NA	0.45		90	70-126
Endosulfan I	0.50	NA	0.29	*	58	65-127
4,4'-DDE	0.50	NA	0.47		93	69-124
Dieldrin	0.50	NA	0.47		94	76-127
Endrin	0.50	NA	0.49		99	84-132
4,4'-DDD	0.50	NA	0.48		95	83-123
Endosulfan II	0.50	NA	0.36	*	72	79-129
4,4'-DDT	0.50	NA	0.48		97	86-124
Endrin Aldehyde	0.50	NA	0.48		96	88-136
Endosulfan sulfate	0.50	NA	0.50		100	90-129
Methoxychlor	0.50	NA	0.51		103	76-168
alpha-Chlordane	0.50	NA	0.45		90	64-128
gamma-Chlordane	0.50	NA	0.45		90	64-125
Endrin Ketone	0.50	NA	0.52		104	87-132

Katahdin Analytical Services 3000006

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 12/01/03 12/01/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.21 DCB: 20.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ICAL	AR1660 1.0PP	12/01/03	1018	7.21		20.67	
02	ICAL	AR1660 0.05P	12/01/03	1046	7.21		20.67	
03	ICAL	AR1660 0.10P	12/01/03	1115	7.21		20.67	
04	ICAL	AR1660 0.25P	12/01/03	1143	7.21		20.67	
05	ICAL	AR1660 2.5PP	12/01/03	1212	7.21		20.67	
06	ICAL	AR1660 10PPM	12/01/03	1240	7.21		20.67	
07	INDSOURCE	AR1016 1.0PP	12/01/03	1309				
08	INDSOURCE	AR1260 1.0PP	12/01/03	1337				
09	ICAL	AR1242 1.0PP	12/01/03	1406				
10	ICAL	AR1248 1.0	12/01/03	1657				
11	ICAL	AR1254 1.0PP	12/01/03	1947				
12	ICAL	AR1221 1.0PP	12/01/03	2238				
13	ICAL	AR1232 1.0 P	12/01/03	2306				
14	WG4487-BLANK	WG4487-1	12/02/03	0100	7.22		20.67	
15	WG4487-LCS	WG4487-2	12/02/03	0128	7.22		20.67	
16	WG4487-LCSD	WG4487-3	12/02/03	0156	7.22		20.67	
17	KW-RINS-01-1	WT2841-5	12/02/03	0447	7.22		20.67	
18	CV	AR1660 1.0PP	12/02/03	0902	7.22		20.67	
19								
20								

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

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

Katahdin Analytical Services 6000007

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: ZB-35 ID: 0.53 (mm) Init. Calib. Date(s): 12/01/03 12/01/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.02 DCB: 21.08

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ICAL	AR1660 1.0PP	12/01/03	1018	7.02	21.08
02	ICAL	AR1660 0.05P	12/01/03	1046	7.02	
03	ICAL	AR1660 0.10P	12/01/03	1115	7.02	21.08
04	ICAL	AR1660 0.25P	12/01/03	1143	7.02	21.08
05	ICAL	AR1660 2.5PP	12/01/03	1212	7.02	21.08
06	ICAL	AR1660 10PPM	12/01/03	1240	7.02	21.08
07	INDSOURCE	AR1016 1.0PP	12/01/03	1309		
08	INDSOURCE	AR1260 1.0PP	12/01/03	1337		
09	ICAL	AR1242 1.0PP	12/01/03	1406		
10	ICAL	AR1248 1.0	12/01/03	1657		
11	ICAL	AR1254 1.0PP	12/01/03	1947		
12	ICAL	AR1221 1.0PP	12/01/03	2238		
13	ICAL	AR1232 1.0 P	12/01/03	2306		
14	WG4487-BLANK	WG4487-1	12/02/03	0100	7.03	21.08
15	WG4487-LCS	WG4487-2	12/02/03	0128	7.03	21.08
16	WG4487-LCSD	WG4487-3	12/02/03	0156	7.03	21.08
17	KW-RINS-01-1	WT2841-5	12/02/03	0447	7.03	21.08
18	CV	AR1660 1.0PP	12/02/03	0902	7.03	21.08
19						
20						

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

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

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC06 Calibration Date: 12/01/03 Time: 1337

Lab File ID: 6TL1012 Init. Calib. Date(s): 12/01/03 12/01/03

Init. Calib. Times: 1018 2209

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	1.2560000	1.0000000	33267.000	0.01	25.60	15.00	2RDR	<-
(2)	1.2088000	1.0000000	32575.000	0.01	20.88	15.00	2RDR	<-
(3)	1.1998000	1.0000000	71591.000	0.01	19.98	15.00	2RDR	<-
(4)	1.1062000	1.0000000	34930.000	0.01	10.62	15.00	2RDR	
(5)	1.2687000	1.0000000	20548.000	0.01	26.87	15.00	2RDR	<-
Average %D: 20.790								

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC06 Calibration Date: 12/01/03 Time: 1337

Lab File ID: 6TL2012 Init. Calib. Date(s): 12/01/03 12/01/03

Init. Calib. Times: 1018 2209

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	0.9192800	1.0000000	48616.000	0.01	-8.07	15.00	2RDR	
(2)	1.1684000	1.0000000	46518.000	0.01	16.84	15.00	2RDR	<-
(3)	1.1985000	1.0000000	99208.000	0.01	19.85	15.00	2RDR	<-
(4)	1.1554000	1.0000000	55207.000	0.01	15.54	15.00	2RDR	<-
(5)	1.2776000	1.0000000	28048.000	0.01	27.76	15.00	2RDR	<-
Average %D: 14.380								

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/17/03 01/17/03

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.34 S2 : 24.66

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FL PRO 5 UG/	01/17/03	1201	18.34	24.65
02	ICAL	FL PRO 20 UG	01/17/03	1311	18.34	24.66
03	ICAL	FL PRO 50 UG	01/17/03	1422	18.34	24.65
04	ICAL	FL PRO 100UG	01/17/03	1532	18.34	24.65
05	ICAL	FL PRO 200UG	01/17/03	1643	18.34	24.66
06	INDSOURCE	FL PRO IND	01/17/03	1753	18.34	24.65
07	CV	FLPRO 50 UG/	11/18/03	1515	18.24	24.47
08	WG4497-BLANK	WG4497-1	11/18/03	1857	18.23	24.46
09	WG4497-LCS	WG4497-2	11/18/03	2007	18.23	24.46
10	FC-MW-06-110	WT2841-1	11/19/03	0417	18.23	24.46
11	KWDUP-01-110	WT2841-2	11/19/03	0527	18.23	24.46
12	CV	FLPRO 50 UG/	11/19/03	0856	18.23	24.46
13	FC-MW-05-110	WT2841-4	11/19/03	1007	18.23	24.47
14	FC-MW-22-110	WT2841-6	11/19/03	1117	18.23	24.46
15	FC-MW-22-110	WG4497-3	11/19/03	1927	18.23	24.46
16	FC-MW-22-110	WG4497-4	11/19/03	2037	18.23	24.46
17	CV	FLPRO 50 UG/	11/20/03	0007	18.22	24.46
18						
19						
20						

QC LIMITS
S1 = O-Terphenyl (+/- 0.37 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

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

FORM VIII PEST

Katahdin Analytical Services 8000008

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4497-BLANK	WG4497-1	168	132							0
02	WG4497-LCS	WG4497-2	170	139							0
03	FC-MW-06-1103	WT2841-1	88	72*							1
04	KWDUP-01-1103	WT2841-2	87	70*							1
05	FC-MW-05-1103	WT2841-4	116	94							0
06	FC-MW-22-1103	WT2841-6	158	121							0
07	FC-MW-22-1103MS	WG4497-3	95	73*							1
08	FC-MW-22-1103MSD	WG4497-4	94	72*							1
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/13/03
Analysis Date: 11/18/03
Report Date: 11/26/2003
Matrix: WATER

Lab ID: WG4497-2
Client ID: WG4497-LCS
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Petroleum Range Organics	850	NA	1200	*	141	55-118

FORM III SV-1

CTK2033.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4497-3 & WG4497-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Petroleum Range Organics	825	810	3100	4900	4900	* 218	* 222	0.0	30	41-101

FORM III SV-1

CTK2053.d & CTK2054.d

Sequence Name: D:\HPCHEM\2\SEQUENCE\111703.S
Comment: Linked Data Acquisition.
Operator: IE
Data Path: D:\HPCHEM\2\DATA\111703\
Pre-Seq Cmd:
Post-Seq Cmd:

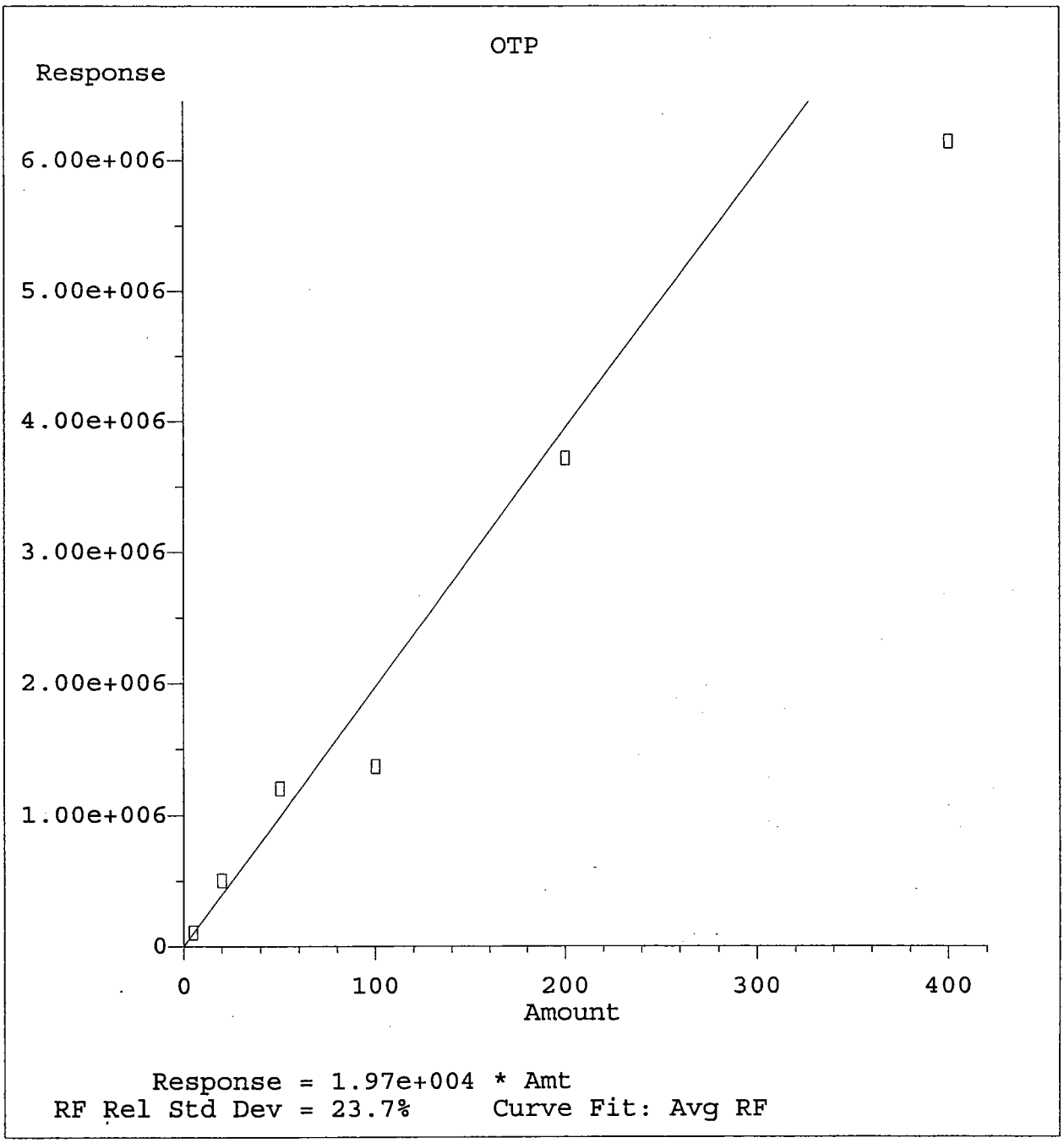
Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

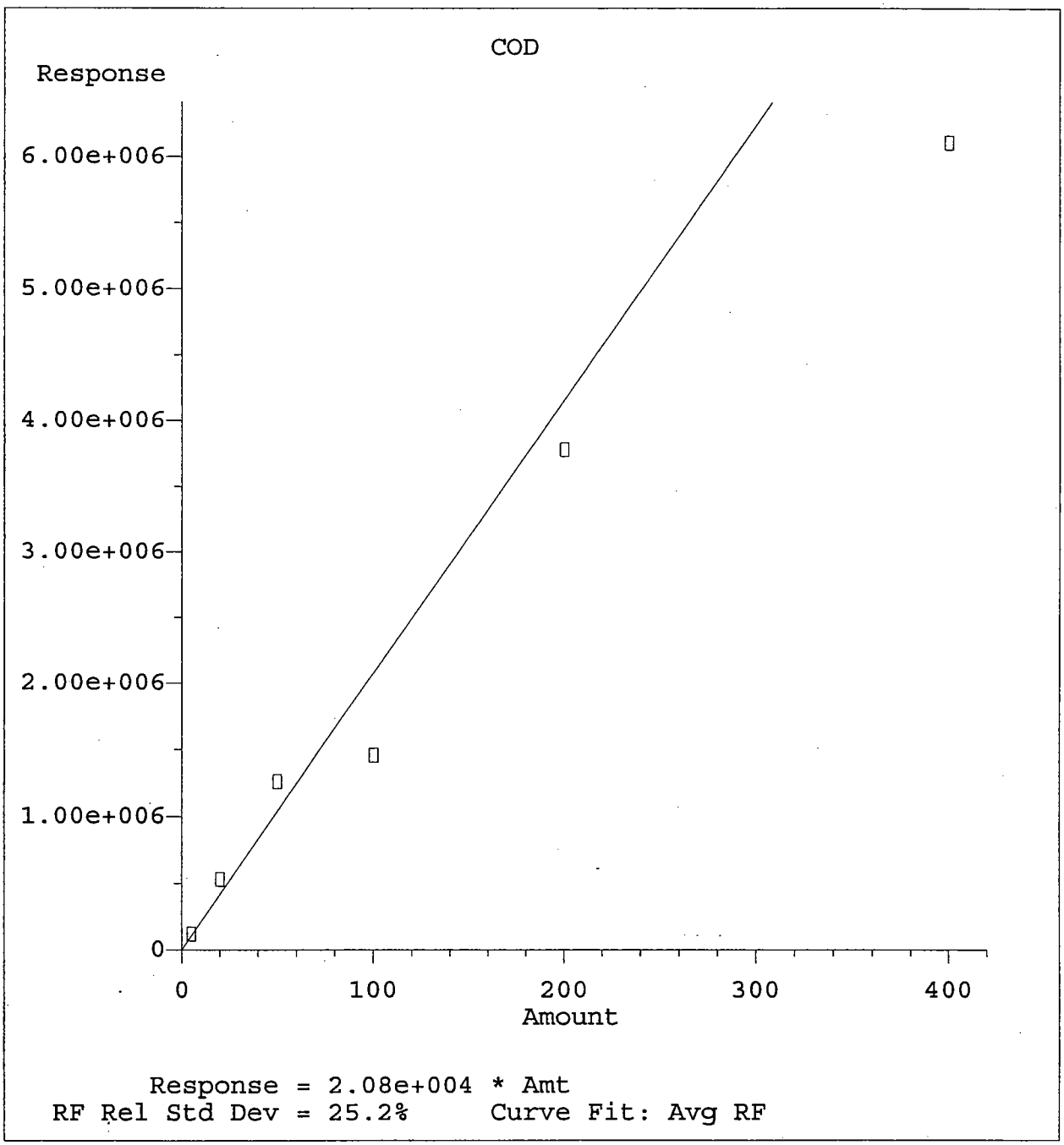
Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	--------	8015FRNT	HEXANE
2	Sample	1	CCTPH001	8015FRNT	100 PPM TPH CC
3	Sample	2	--------	8015FRNT	FRAC BLK 11/17/03 p
4	Sample	3	--------	8015FRNT	BLK GES 031 p
5	Sample	4	--------	8015FRNT	LCS GES 031 p
6	Sample	5	--------	8015FRNT	C311091-19
7	Sample	6	--------	8015FRNT	C311091-24
8	Sample	7	--------	8015FRNT	C311207-1
9	Sample	8	--------	8015FRNT	C311281-1
10	Sample	9	--------	8015FRNT	FRAC BLK GES 031 M
11	Sample	10	--------	8015FRNT	BLK GES 031 M
12	Sample	11	--------	8015FRNT	LCS GES 031 M
13	Sample	12	CCTPH002	8015FRNT	100 PPM TPH CC
14	Sample	13	--------	8015FRNT	C311091-19 M
15	Sample	14	--------	8015FRNT	C311091-24 M
16	Sample	15	--------	8015FRNT	C311207-1 M
17	Sample	16	--------	8015FRNT	C311281-1 M
18	Sample	17	--------	8015FRNT	BLK GEW 042
19	Sample	18	--------	8015FRNT	LCS GEW 042
20	Sample	19	--------	8015FRNT	C311437-4 MS
21	Sample	20	--------	8015FRNT	C311437-4 MSD
22	Sample	21	--------	8015FRNT	C311437-1
23	Sample	22	--------	8015FRNT	C311437-2
24	Sample	23	CCTPH003	8015FRNT	100 PPM TPH CC
25	Sample	24	--------	8015FRNT	C311437-3
26	Sample	25	--------	8015FRNT	C311437-4
27	Sample	26	--------	8015FRNT	BLK GES 041
28	Sample	27	--------	8015FRNT	LCS GES 041
29	Sample	28	--------	8015FRNT	C311452-1 MS
30	Sample	29	--------	8015FRNT	C311452-1 MSD
31	Sample	30	--------	8015FRNT	C311452-1
32	Sample	31	--------	8015FRNT	C311452-2
33	Sample	32	--------	8015FRNT	C311452-3
34	Sample	33	--------	8015FRNT	C311452-4
35	Sample	34	CCTPH004	8015FRNT	100 PPM TPH CC
36	Sample	35	--------	8015FRNT	C311452-5
37	Sample	36	--------	8015FRNT	C311452-6
38	Sample	37	--------	8015FRNT	C311472-1
39	Sample	38	--------	8015FRNT	C311472-2
40	Sample	39	--------	8015FRNT	C311472-3
41	Sample	40	--------	8015FRNT	C311472-4
42	Sample	41	--------	8015FRNT	C311472-5
43	Sample	42	--------	8015FRNT	C311472-6

Sequence Name: D:\HPCHEM\2\SEQUENCE\111703.S

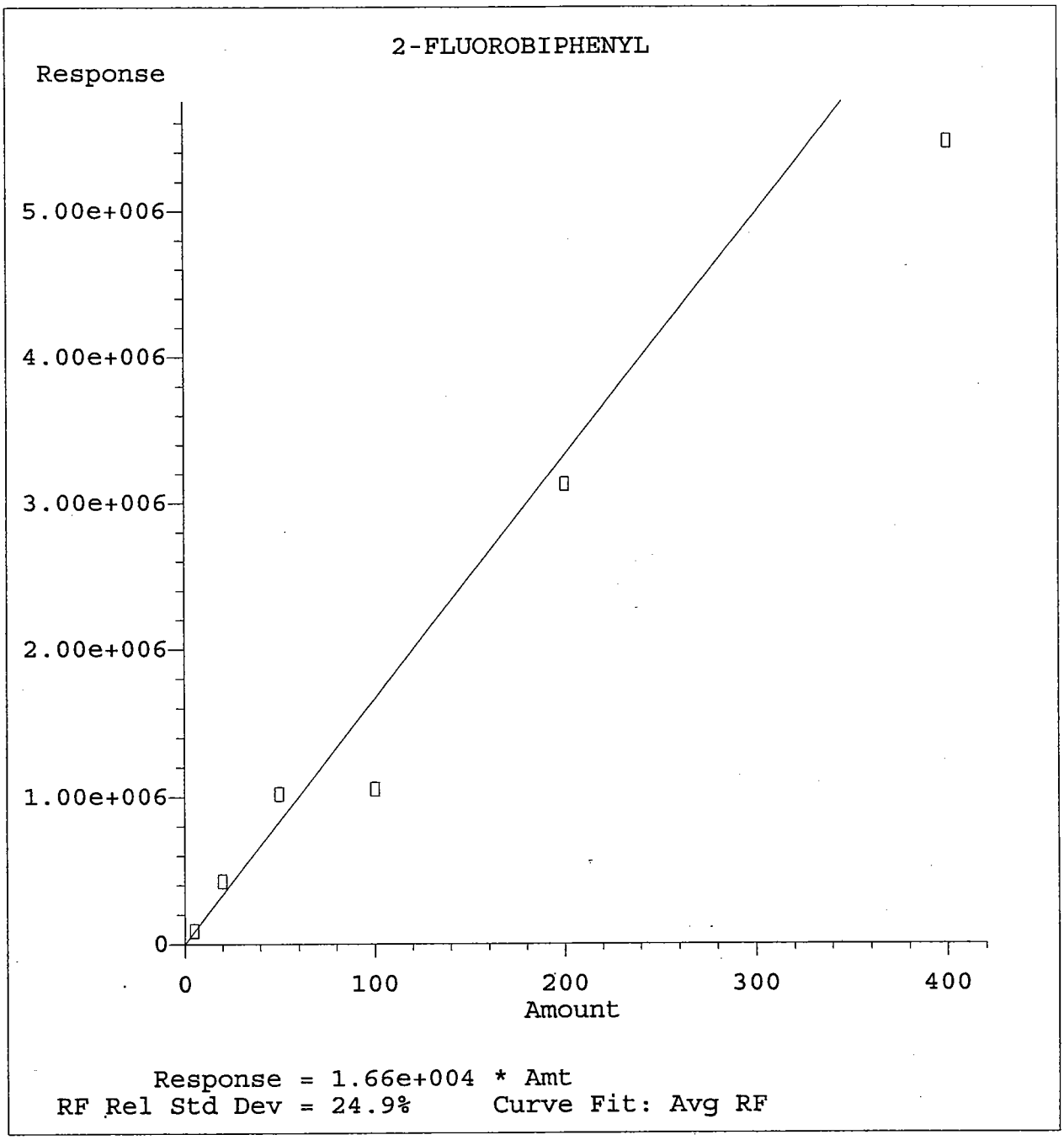
Line	Type	Vial	DataFile	Method	Sample Name
44	Sample	43	--------	8015FRNT	C311416-1
45	Sample	44	--------	8015FRNT	C311213-1
46	Sample	45	CCTPH005	8015FRNT	100 PPM TPH CC
47	Sample	46	--------	8015FRNT	C311213-2
48	Sample	47	--------	8015FRNT	C311213-3
49	Sample	48	--------	8015FRNT	C311213-6
50	Sample	45	CCTPH006	8015FRNT	100 PPM TPH CC



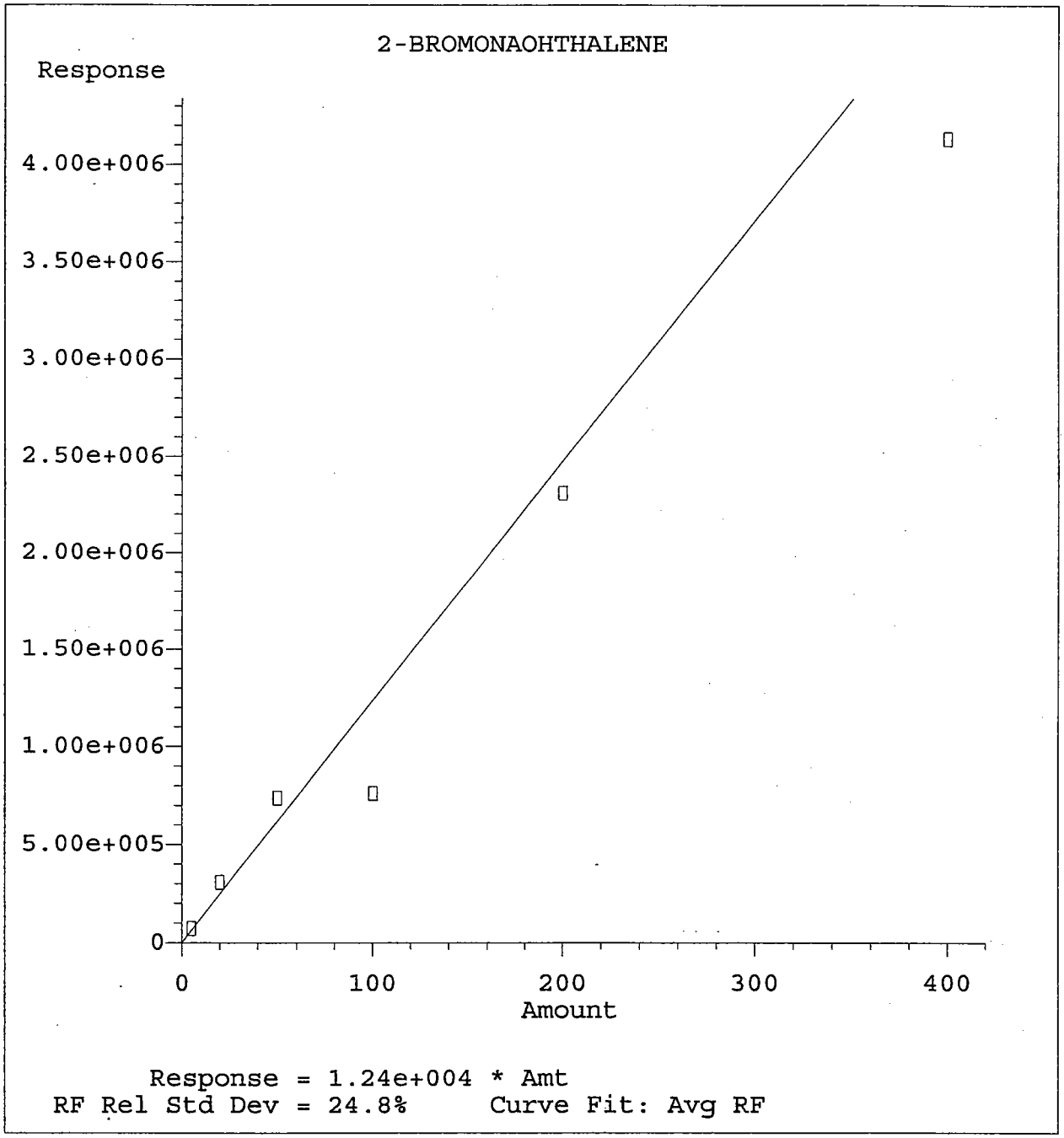
Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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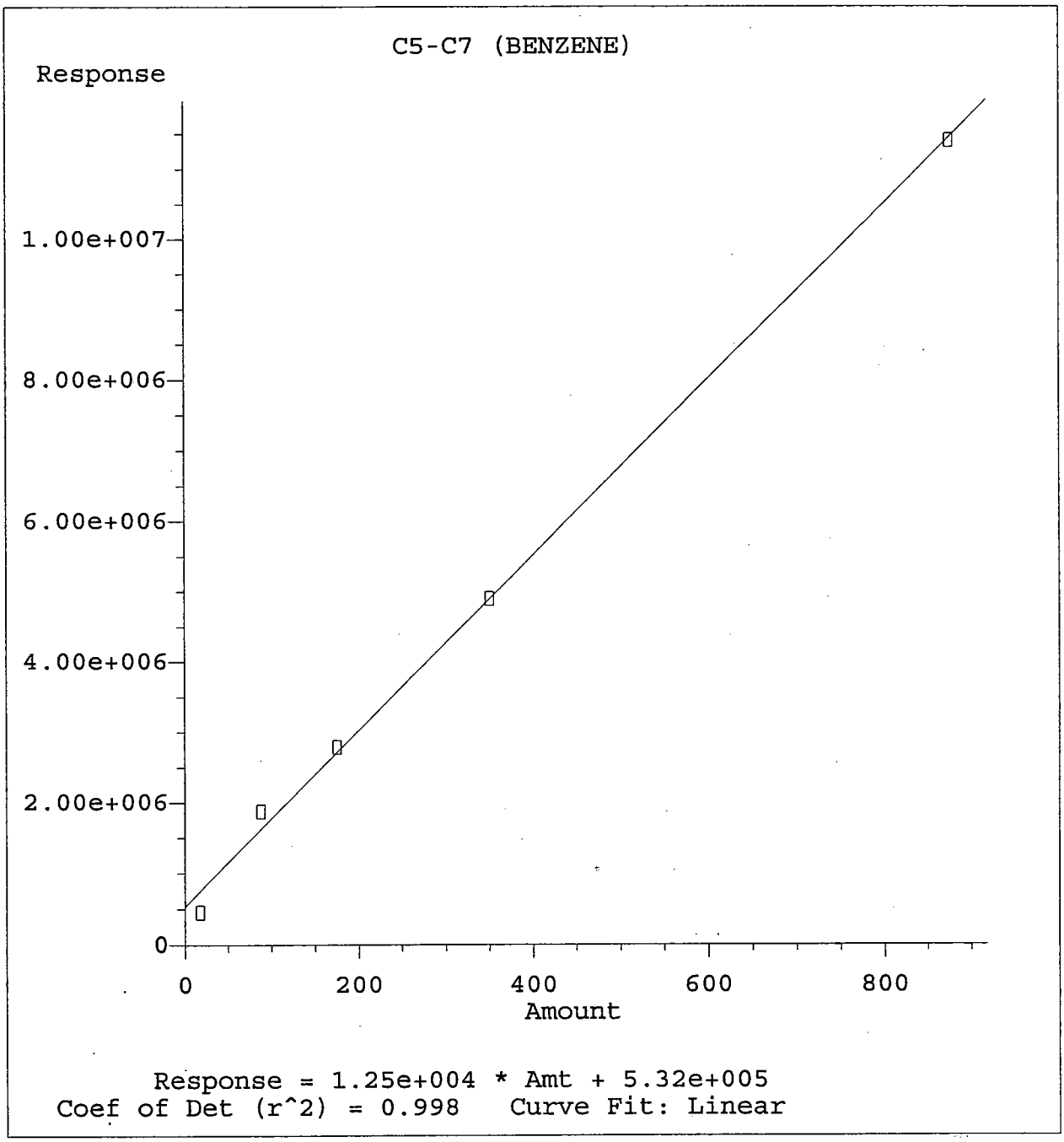
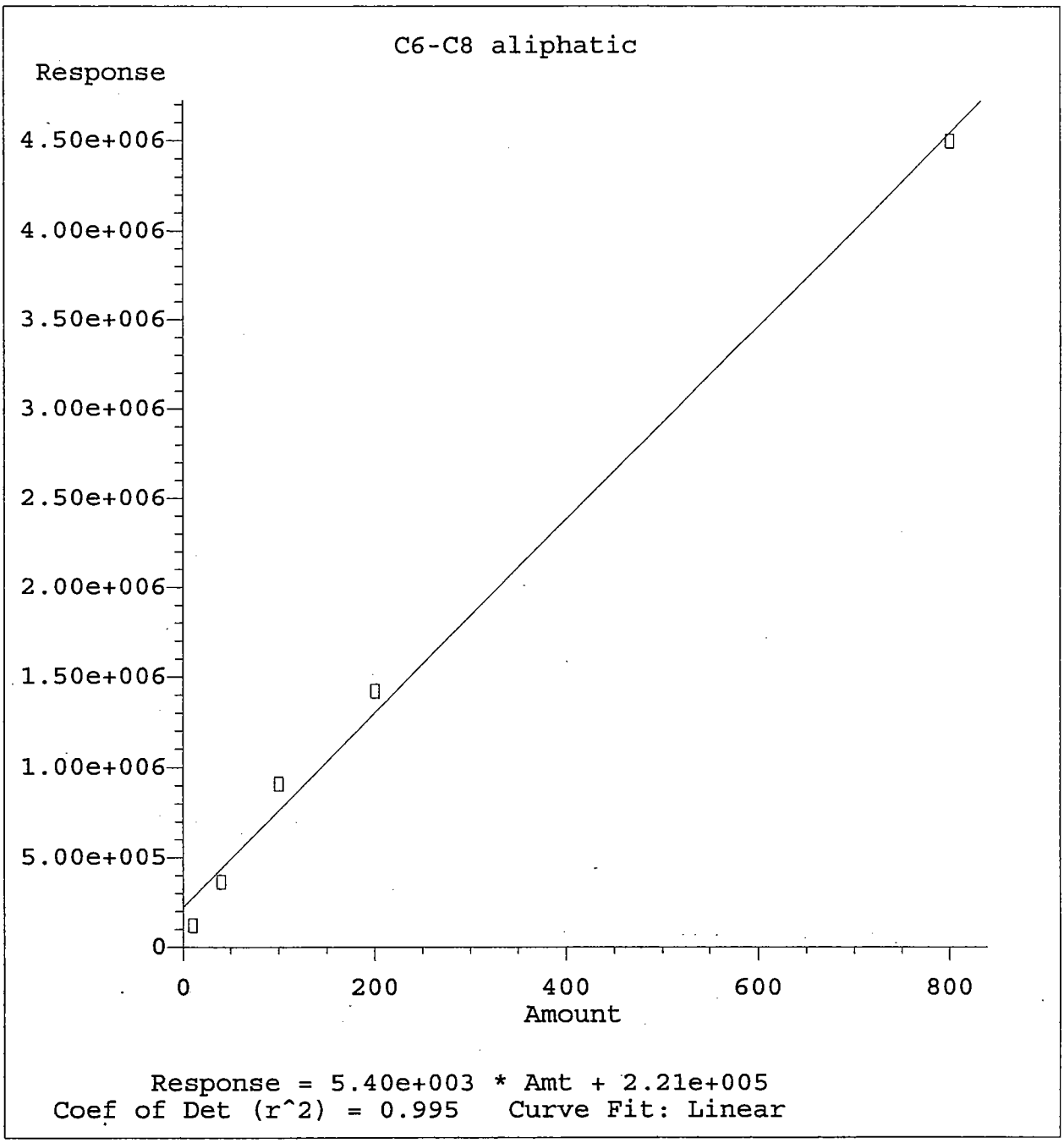
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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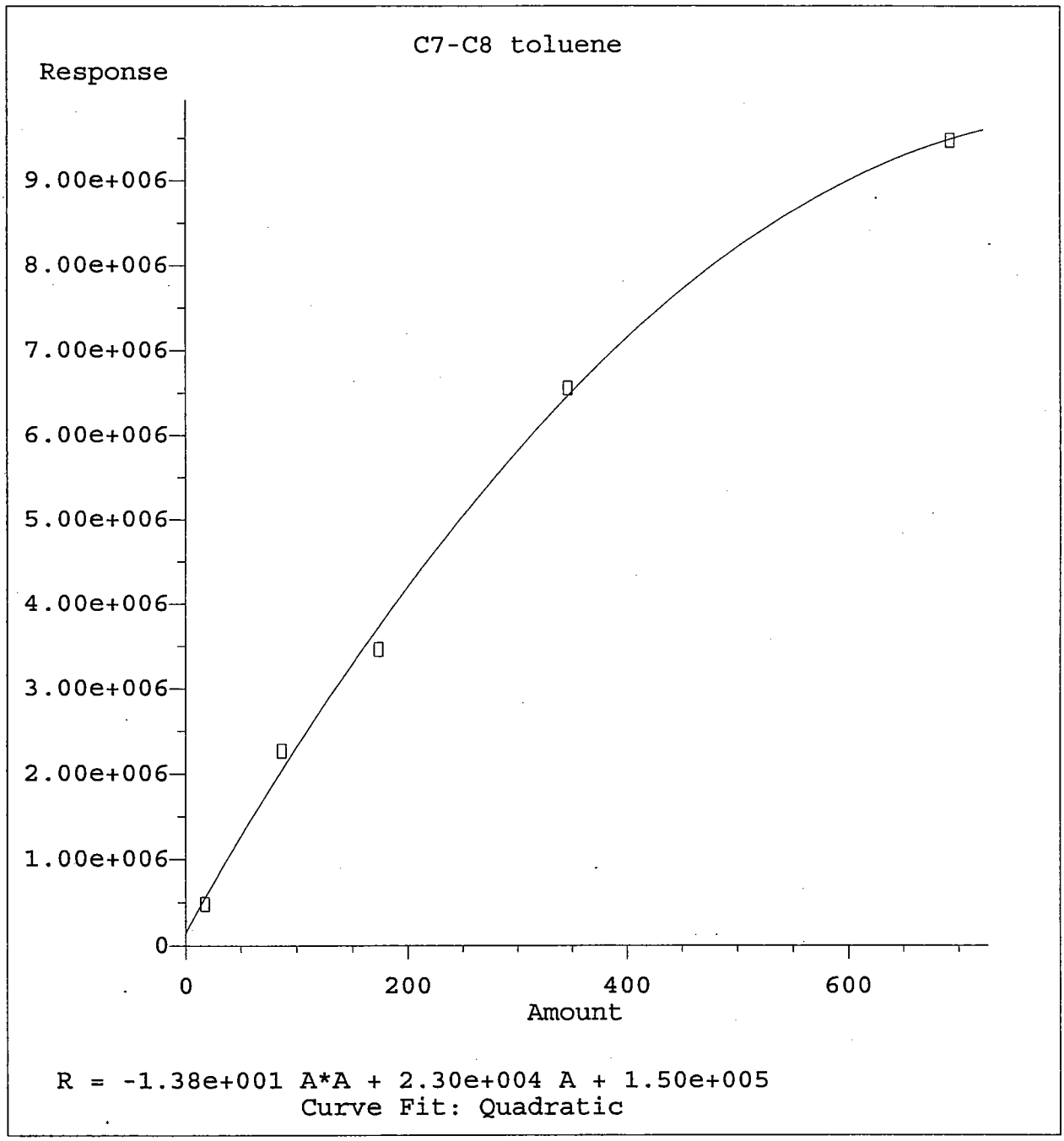
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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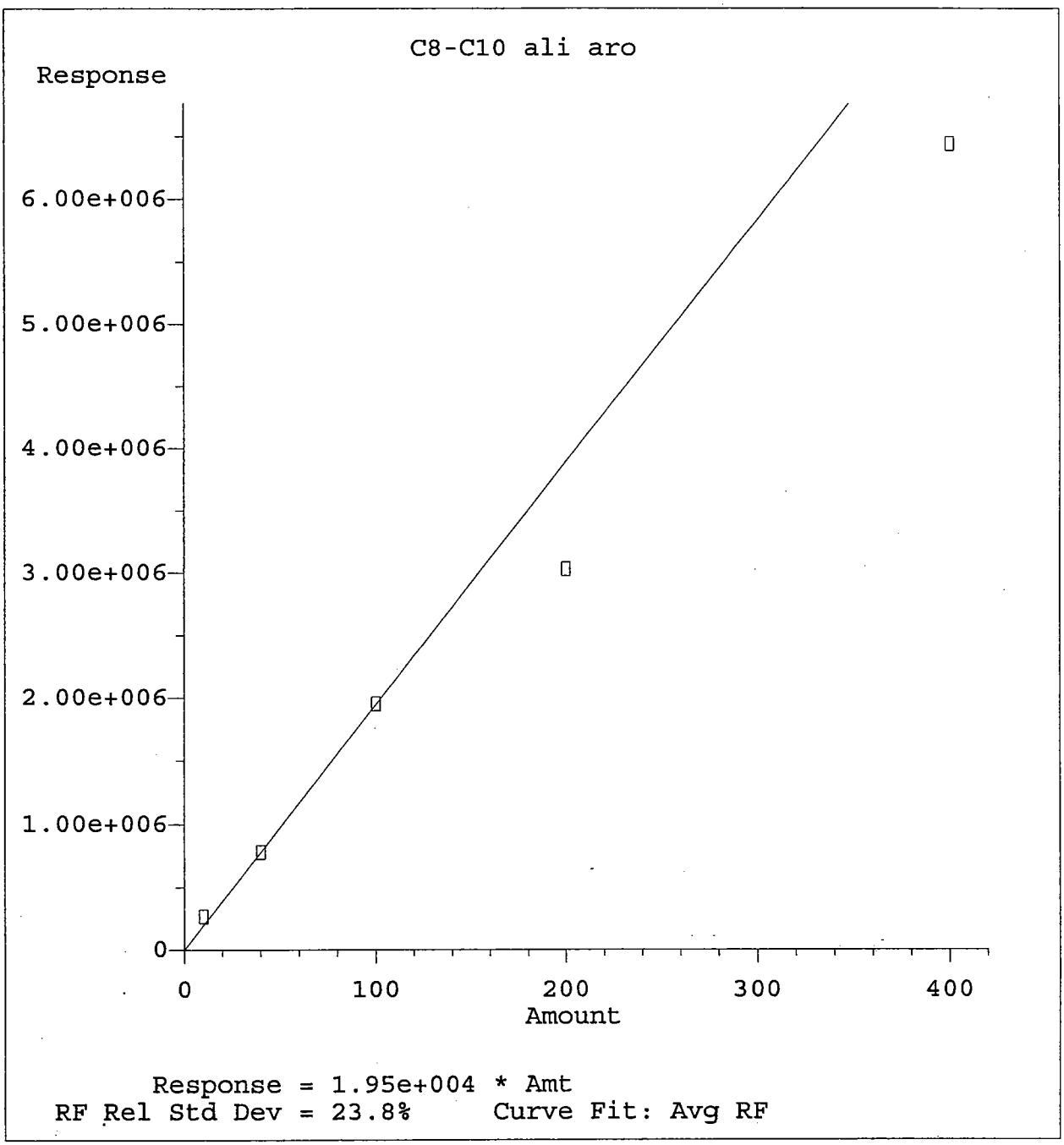

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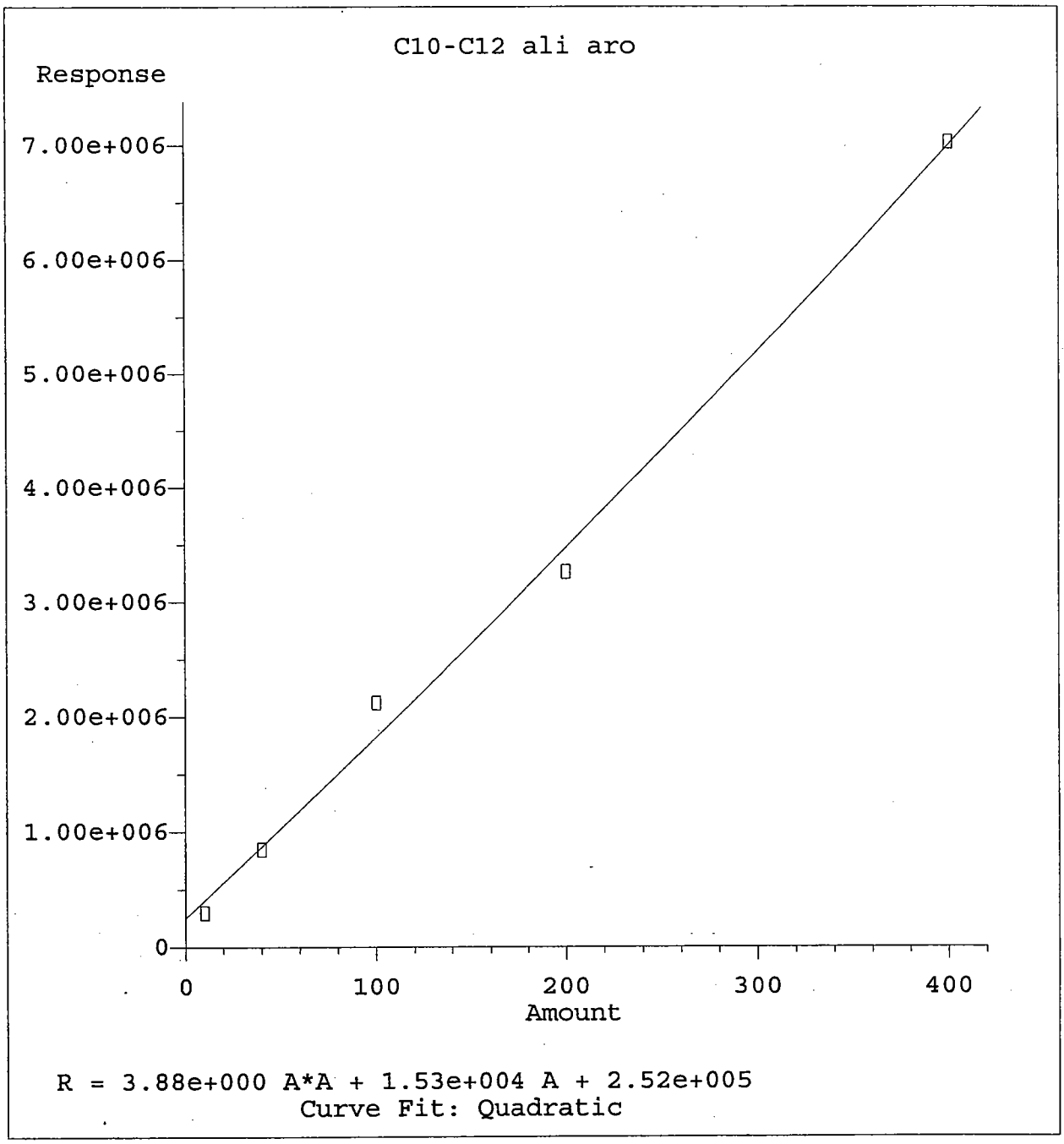
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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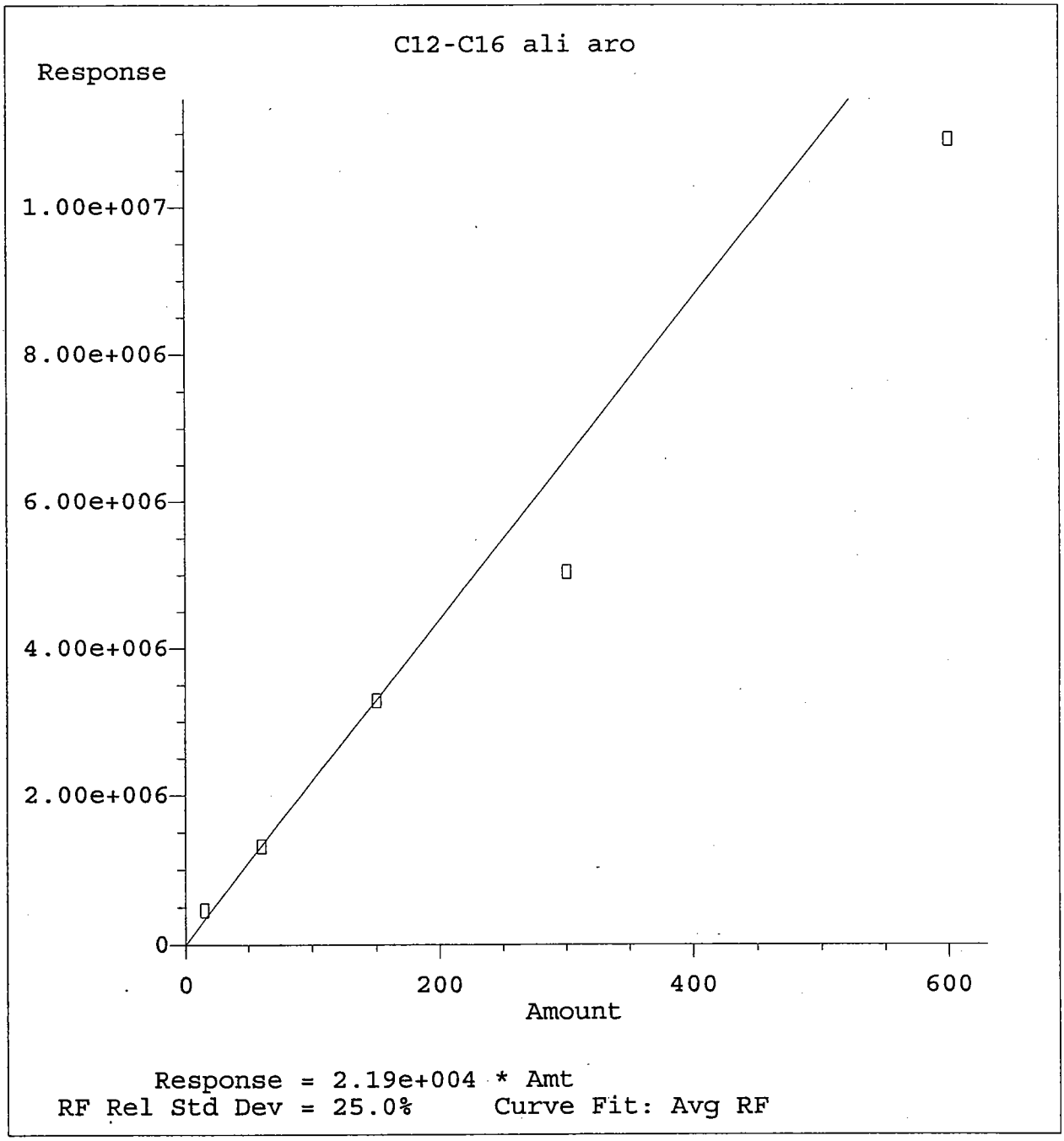

Method Name: T:\METHODS\PROCESS\WG-FL6.M
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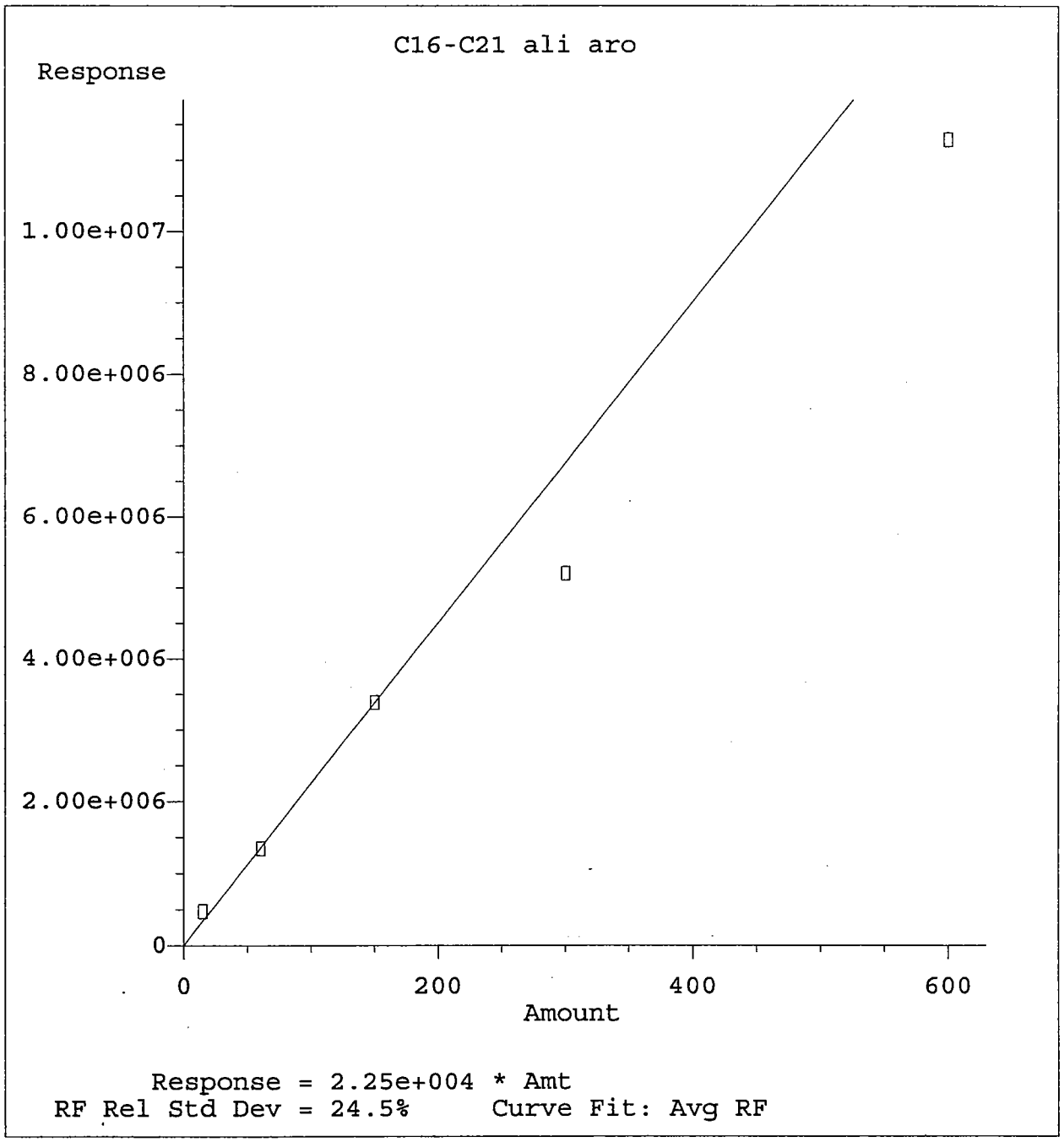

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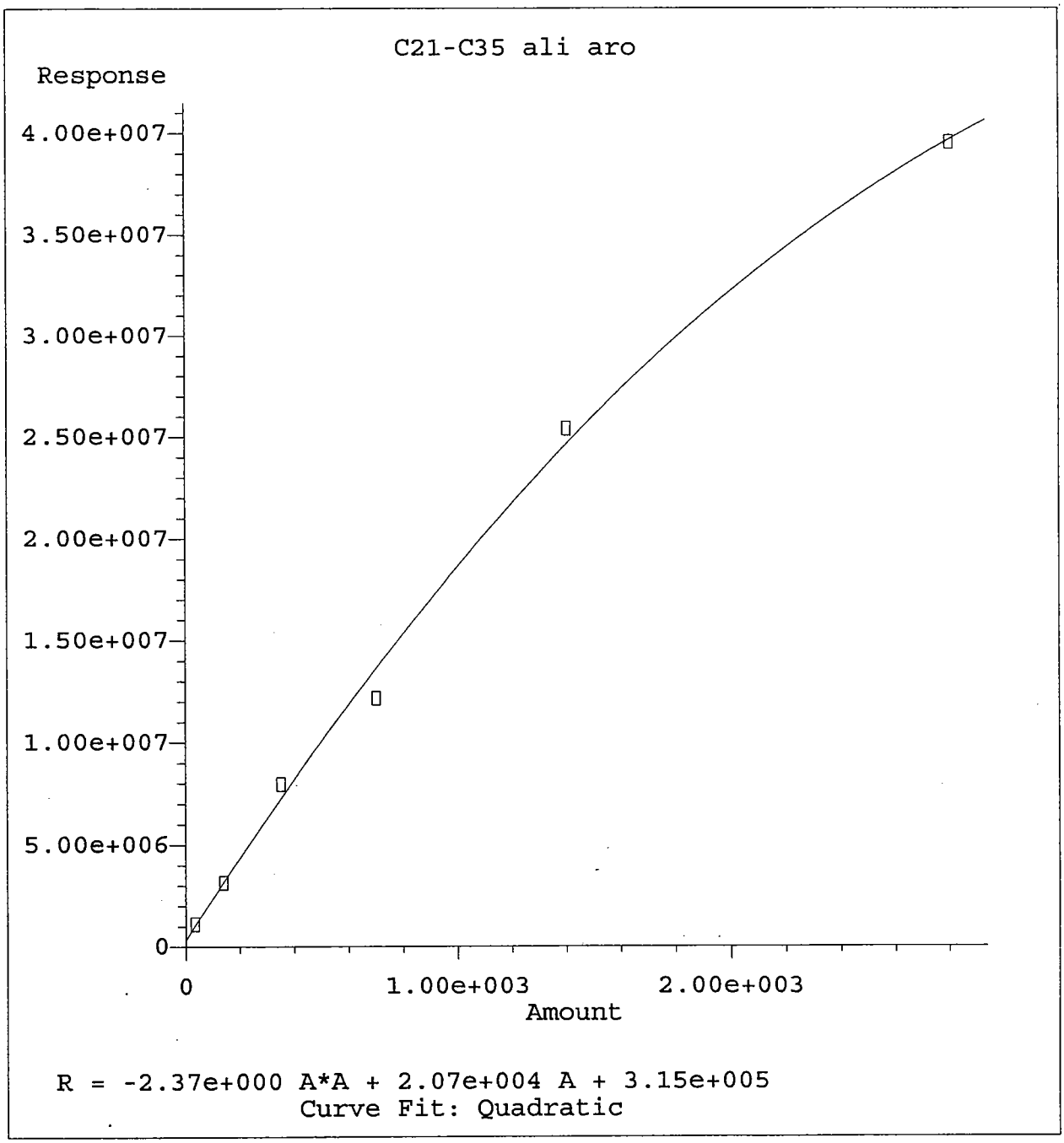

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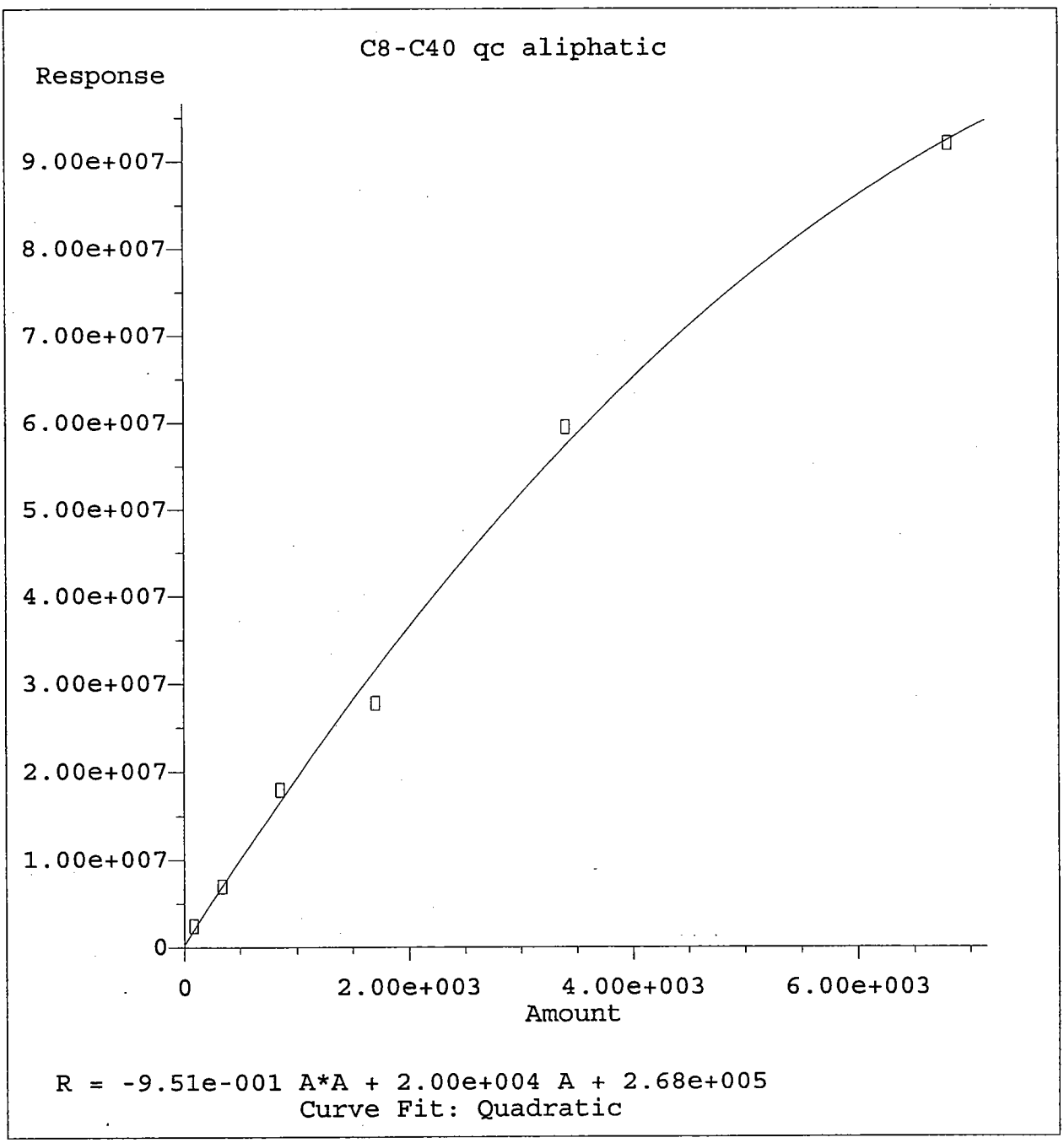

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