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NAS CECIL FIELD, FL
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FOURTH QUARTER YEAR 1 EVENT GROUNDWATER MONITORING LETTER REPORT FOR BUILDING 815 WASH RACK AREA NAS CECIL FIELD FL

12/1/2009

TETRA TECH NUS INC

TETRA TECH

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December 1, 2009

Project Number 112G02267

Mr. David Grabka
Remedial Project Manager
Technical Review/Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: CLEAN V Contract Number N62470-08-D-1001
Contract Task Order JM09

Subject: Quarterly Groundwater Monitoring Report, 4th Quarter, Year 1 Event – July 2009
Building 815 Wash Rack Area
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this 4th Quarter, Year 1 Groundwater Monitoring Report for the Building 815 Wash Rack Area at Naval Air Station (NAS) Cecil Field. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) V Contract Number N62470-08-D-1001. This Quarterly Groundwater Monitoring Report summarizes the fieldwork and analytical results for the sampling event conducted in July 2009. The work was performed in general accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) under DEP-SOP-001/01.

BACKGROUND

Building 815 is an aircraft maintenance hangar located at the northern end of the flightline and eastern end of Lake Newman Street (formerly 6th Street) (see Figure 1). An aircraft wash rack is located north of the hangar. Naphthalene contamination in groundwater was identified in wells at the wash rack in the 1999 Sampling and Analysis Report (SAR) for Hangar 815. There are no tanks associated with this area of contamination. During the SAR, two shallow monitoring wells were installed in the area of the wash rack. In addition, an area of soil contamination and a storm water retention pond in the wash rack area were investigated during the SAR. The results of the investigations of these areas are described in the Technical Memorandum for Potential Source of Contamination 56.

Between October 1999 and May 2000, TtNUS conducted three phases of Site Assessment (SA) activities. The first phase included installation and sampling of one monitoring well and sampling of five existing wells for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and total recoverable petroleum hydrocarbons (TRPH). Naphthalene and TRPH were the only contaminants detected in excess of FDEP Groundwater Cleanup Target Levels (GCTLs). The second phase involved

the installation and sampling of one shallow monitoring well and sampling of three other existing upgradient wells. The groundwater samples from the second phase were analyzed for select compounds (VOCs, SVOCs, and TRPH) detected during the first phase of SA activities. The third phase of work entailed resampling monitoring well CEF-815-4S for VOCs on May 11, 2000, to confirm the Phase II vinyl chloride result (which was greater than its GCTL). During Phase III SA activities, the vinyl chloride concentration was less than the FDEP GCTL in monitoring well CEF-815-4S. The extent of exceedances of naphthalene and TRPH in groundwater was delineated, and semi-annual monitoring was proposed and approved for the site under Florida's Petroleum Program. Based on the 2000 Natural Attenuation Monitoring Plan Approval Order (NAMPAO) issued by FDEP, semi-annual monitoring was conducted at the site from 2000 to 2003.

On January 12, 2004, TtNUS submitted the Groundwater Monitoring Report documenting results from the July 2003 sampling event. Based on these results, TtNUS concluded that naphthalene concentrations in monitoring well CEF-815-1S continued to exceed the annual milestone cleanup objectives defined in the NAMPAO. TtNUS recommended that the monitoring program be discontinued and that a Remedial Action Plan (RAP) be developed for the site. FDEP concurred with discontinuing the monitoring program and recommended that a soil assessment be conducted prior to preparation of a RAP. In January 2005, TtNUS collected soil samples in the 815 Wash Rack Area to determine if a continuing source of soil contamination was present in the vicinity of monitoring well CEF-815-1S. Eight samples were collected above the water table and capillary fringe from 2 to 4 feet below ground surface (bgs) and were analyzed for VOCs, polynuclear aromatic hydrocarbons (PAHs), and TRPH. All soil assessment results were less than FDEP Soil Cleanup Target Levels (SCTLs), so the soil was determined not to be a continuing source of contamination.

As discussed during the February 2005 meeting, the NAS Cecil Field Base Realignment and Closure (BRAC) Cleanup Team (BCT) agreed to transfer the site from the Petroleum Program to the Installation Restoration (IR) Program so that site remediation could be conducted concurrently with adjacent Site 59. However, at the September 2007 BCT Meeting, it was decided that groundwater at the 815 Wash Rack Area would be transferred back to the Petroleum Program. Because nearly 2 years had passed since the last groundwater sampling event and because a RAP had not been prepared for the site since its transfer to the IR Program, a Site Assessment Report Addendum (SARA) was recommended. The monitoring wells sampled and the analyses (naphthalene and TRPH) conducted for the SARA were those designated in the 2000 NAMPAO.

During the initial SARA field event on November 5, 2007, TtNUS collected groundwater samples from wells CEF-815-1S and NG-12S to confirm the presence of naphthalene using United States Environmental Protection Agency (USEPA) Method 8270C and TRPH using the Florida Petroleum Range Organics (FL-PRO) method. Monitoring well CEF-815-1S had a naphthalene concentration of 89 micrograms per liter (µg/L), greater than the FDEP GCTL of 14 µg/L. TRPH was detected at a concenration less than its GCTL in CEF-815-1S. Concentrations in the groundwater sample collected from NG-12S during the SARA investigation were less than GCTLs.

During a second SARA field event in February 2008, one shallow monitoring well was installed using hollow-stem auger drilling techniques to delineate the extent of naphthalene contamination at the site. The well (CEF-815-5S) was installed approximately 30 feet southeast of CEF-815-1S and was screened from approximately 4 to 14 bgs. The location of CEF-815-5S is shown on Figure 2. Groundwater samples were collected from wells CEF-815-1S, CEF-815-5S, NG-12S, and nearby IR site 59 well CEF-059-028-015 and analyzed for naphthalene using USEPA Method 8270C and for TRPH using the FL-PRO method. February 2008 samples from CEF-815-1S and CEF-815-5S had naphthalene concentrations of 69 and 37 µg/L, respectively. Although these results exceeded the FDEP GCTL of 14 µg/L, they were less than the Natural Attenuation Default Concentration (NADC) of 140 µg/L and continued to demonstrate a consistent pattern of decreasing concentrations of naphthalene since the first sampling event performed in accordance with FDEP-approved semi-annual monitoring in 2000. TRPH

concentrations were less than the GCTL in CEF-815-1S and CEF-815-5S. Concentrations of contaminants in samples from NG-12S and CEF-059-028-015 were less than FDEP GCTLs.

Due to the decreasing trend in naphthalene concentrations in CEF-815-1S, the well at which the highest concentrations are consistently detected, and because the naphthalene concentration in this well was significantly less than the NADC of 140 µg/L, TtNUS recommended in the 2008 SARA that regular monitoring of wells CEF-815-1S, NG-12S, CEF-815-5S, and CEF-059-015 for naphthalene be conducted over a 5-year period. The proposed sampling frequency was quarterly for the first year, semi-annual for years two and three, and annual for years four and five. FDEP issued an updated NAMPAO in November 2008 that incorporated these recommendations. The field activities and results from the 4th Quarter, Year 1 sampling event are detailed below.

FIELD ACTIVITIES

On July 31, 2009, TtNUS collected groundwater samples from wells CEF-815-1S, NG-12S, CEF-815-5S, and CEF-059-028-015 for analysis of naphthalene using USEPA Method 8270C. Monitoring well locations are shown on Figure 2. The depth-to-water measurements, top-of-casing elevations, and groundwater elevations are presented in Table 1. Low-flow purge sheets and groundwater sample log sheets from the July 2009 event are included as Attachment A. The samples were placed on ice immediately upon collection and delivered via Federal Express under chain of custody to Empirical Laboratories, Inc., in Nashville, Tennessee.

Water level measurements were recorded on July 31, 2009, from wells CEF-815-1S, CEF-815-5S, NG-12S, and CEF-059-028-015 prior to sampling activities. Depths to water ranged from 3.48 feet (CEF-059-028-015) to 4.78 feet below top of casing (btoc) (NG-12S). General protocols were in accordance with FDEP SOPs and TtNUS SOP SA-1.1. The 815 Wash Rack Area is located within the boundaries of IR Site 59. The remediation system for Site 59 was active during the 4th Quarter, Year 1 sampling event and affected the groundwater flow measurements. Therefore, the measurements could not be contoured for this quarter. Based on historical data, groundwater flow has consistently been to the southeast for many years in the site area.

RESULTS

The naphthalene concentration in CEF-815-1S (160 µg/L) exceeded the NADC of 140 µg/L, and the naphthalene concentration in CEF-815-5S (72 µg/L) exceeded the GCTL of 14 µg/L. Naphthalene concentration in CEF-815-1S is approximately four times the levels detected during the most recent sampling event in December 2008. The naphthalene concentration in CEF-815-5S has nearly doubled since the December 2008 sampling event. Naphthalene results in perimeter monitoring wells NG-12S and CEF-059-028-015 remained less than the GCTL. Laboratory analytical results from the July 2009 sampling event are summarized in Table 2 and illustrated on Figure 4. The laboratory analytical report is provided as Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

During the July 2009 sampling event, naphthalene concentrations in source wells CEF-815-1S and CEF-815-5S were greater than the FDEP GCTL of14 µg/L. Concentrations of naphthalene have increased since the December 2008 sampling event.

Based on the results of the 4th Quarter, Year 1 sampling event, TtNUS recommends that groundwater sampling occur on a semi-annual basis. If the FDEP approves this recommendation, the 1st Semi-Annual, Year 2 sampling event will be scheduled for January 2010.

TETRA TECH

If you have any questions regarding this submittal, please feel free to contact Kara Wimble at (904) 730-4669, extension 217, or via e-mail at Kara.Wimble@ttnus.com.

Sincerely,

Robert F. Simcik, P.E.
Task Order Manager
P.E. Number 61263

Kara F. Wimble
Project Scientist

RS/rm

Attachments (4)

c: A. Sanford, NAVFAC SE
M. Perry, TtNUS (unbound and CD)
R. Simcik, TtNUS (bookcase file)
J. Trepanowski, TtNUS (cover letter with CD)
R. Miller, TtNUS (cover letter only)
CTO JM09 Project File
J. Johnson, TtNUS (Information Repository)

CERTIFICATION

The information contained herein is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned engineer should be notified to evaluate the effects of any additional information on the information described in this report. This Quarterly Groundwater Monitoring Report, 4th Quarter Year 1 Event, July 2009, was developed for the Building 815 Wash Rack Area at the former Naval Air Station Cecil Field and should not be construed to apply to any other site.

ROBERT FRANK SIMCIK
CENSE
No. 00061263
STATE OF FLORIDA
PROFESSIONAL ENGINEER

12/1/09

December 1, 2009
Robert F. Simcik, P.E.
P.E. License Number 61263

Tetra Tech NUS, Inc.
661 Andersen Drive, Pittsburgh, PA 15220-2745
Tel 412.921.7090 Fax 412.921.4040 www.ttnus.com

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA
1ST YEAR, 4th QUARTERLY SAMPLING EVENT
BUILDING 815 WASH RACK AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Monitoring Well Identification	Well Depth (feet btoc)	TOC Elevation (feet above msl)	May 1, 2001		December 17, 2001		June 19, 2002		January 9, 2003		July 24, 2003		February 12, 2008	
			Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)
CEF-815-1S	13.10	75.55	6.12	69.44	5.40	70.16	6.41	69.15	4.25	71.31	4.53	71.03	6.31	69.24
CEF-815-5S	14.40	75.65	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.56	69.09
NG-12S	13.40	75.69	6.39	69.30	5.63	70.06	6.68	69.01	4.69	71.00	4.83	70.86	6.54	69.15
CEF-059-028-015	15.00	76.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.16	68.89

Monitoring Well Identification	Well Depth (feet btoc)	TOC Elevation (feet above msl)	June 19, 2008		September 16, 2008		December 15, 2008		July 31, 2009	
			Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)	Depth to Water (feet btoc)	Water Level Elevation (feet above msl)
CEF-815-1S	13.10	75.55	6.40	69.15	4.86	70.69	6.54	69.01	4.46	71.09
CEF-815-5S	14.40	75.65	6.61	69.04	5.24	70.41	6.81	68.84	4.77	70.88
NG-12S	13.40	75.69	6.60	69.09	5.14	70.55	6.81	68.88	4.78	70.91
CEF-059-028-015	15.00	76.05	7.18	68.87	5.91	70.14	6.02	70.03	3.48	72.57

TOC = Top of casing.
btoc = Below top of casing.
msl = Mean sea level.
NM = Not measured.

Table 2
Summary of Detections in Groundwater

4th Quarter, Year 1 Event – July 2009
Building 815 Wash Rick Area
Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	GCTL	NADC	CEF-815-1S								
			11/01/00	05/01/01	12/01/01	06/01/02	07/01/02	01/01/03	07/01/03	01/01/06	11/01/07
VOCs (µg/L)											
Naphthalene	14	140	**192**	**250**	**129**	**299**	**205**	**152**	**256**	**140**	**89**
Petroleum Hydrocarbons (mg/L)											
TRPH	5		NA	NA	NA	NA	NA	NA	NA	NA	NA

Parameter	GCTL	NADC	CEF-815-1S								
			02/12/08		06/19/08		09/16/08		12/15/08		07/31/09
			Sample	Duplicate	Sample	Duplicate	Sample	Duplicate	Sample	Duplicate	
VOCs (µg/L)											
Naphthalene	14	140	**69**	**68**	**50**	**58**	**72 J**	**43 J**	**42.5**	**40.7**	**160**
Petroleum Hydrocarbons (mg/L)											
TRPH	5		1.1	0.88	NA	NA	NA	NA	NA	NA	NA

Parameter	GCTL	NADC	CEF-815-5S					NG-12S			
			02/12/08	06/19/08	09/15/08	12/15/08	07/31/09	11/01/00	05/01/01	12/01/01	06/01/02
VOCs (µg/L)											
Naphthalene	14	140	**37.0**	**42**	**42.0**	**36**	**72**	9.2	8.2	7.1	3.4
Petroleum Hydrocarbons (mg/L)											
TRPH	5		0.48	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Summary of Detections in Groundwater

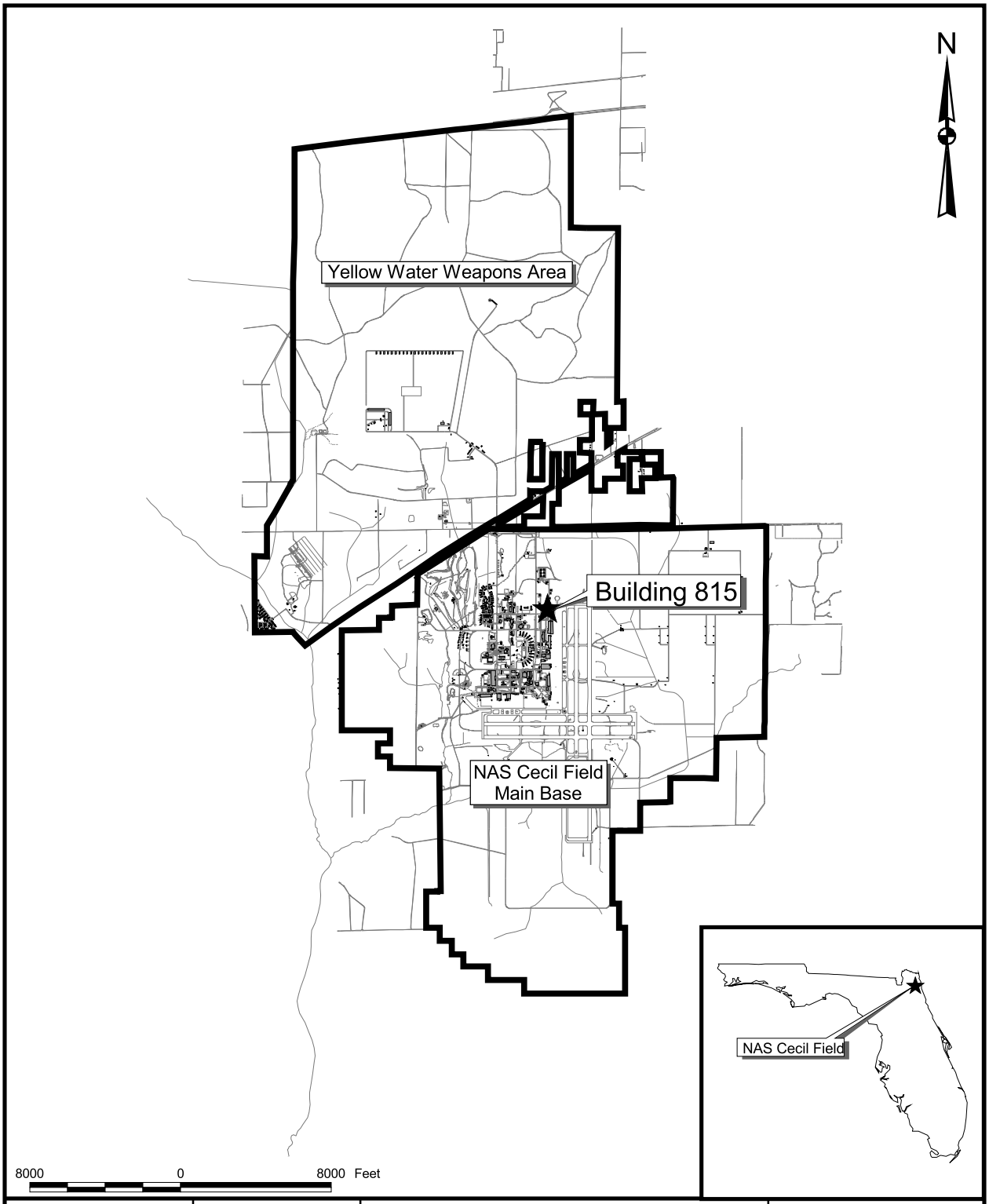
4th Quarter, Year 1 Event – July 2009
Building 815 Wash Rick Area
Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	GCTL	NADC	NG-12S								
			01/01/03	07/01/03	01/01/06	11/01/07	02/01/08	06/01/08	09/01/08	12/01/08	07/31/09
VOCs (µg/L)											
Naphthalene	14	140	13.2	**39.9**	13.6	4.7	3.3	2.2	0.51	0.53 J	0.11 J
Petroleum Hydrocarbons (mg/L)											
TRPH	5		NA	NA	NA	NA	NA	NA	NA	NA	NA

Parameter	GCTL	NADC	CEF-059-028-015				
			02/01/08	06/01/08	09/01/08	12/01/08	07/31/09
VOCs (µg/L)							
Naphthalene	14	140	0.1 J	0.058	0.12	0.24 U	0.10 U
Petroleum Hydrocarbons (mg/L)							
TRPH	5		NA	NA	NA	NA	NA

GCTL = Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels from Chapter 62-777, Florida Administrative Code (F.A.C.).
NADC = Natural Attenuation Default Concentrations from Chapter 62-777, F.A.C.
VOCs = Volatile organic compounds.
µg/L = Micrograms per liter.
Bold indicates concentration greater than FDEP GCTL.
U = Not detected at detection limit shown.
I = Reported value is between laboratory method detection limit and laboratory practical quantitation limit.
J = Estimated value.
NA= Not analyzed.

FIGURES



DRAWN BY MJJ	DATE 22Oct09	GENERAL LOCATION MAP BUILDING 815 WASH RACK AREA NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 2267
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

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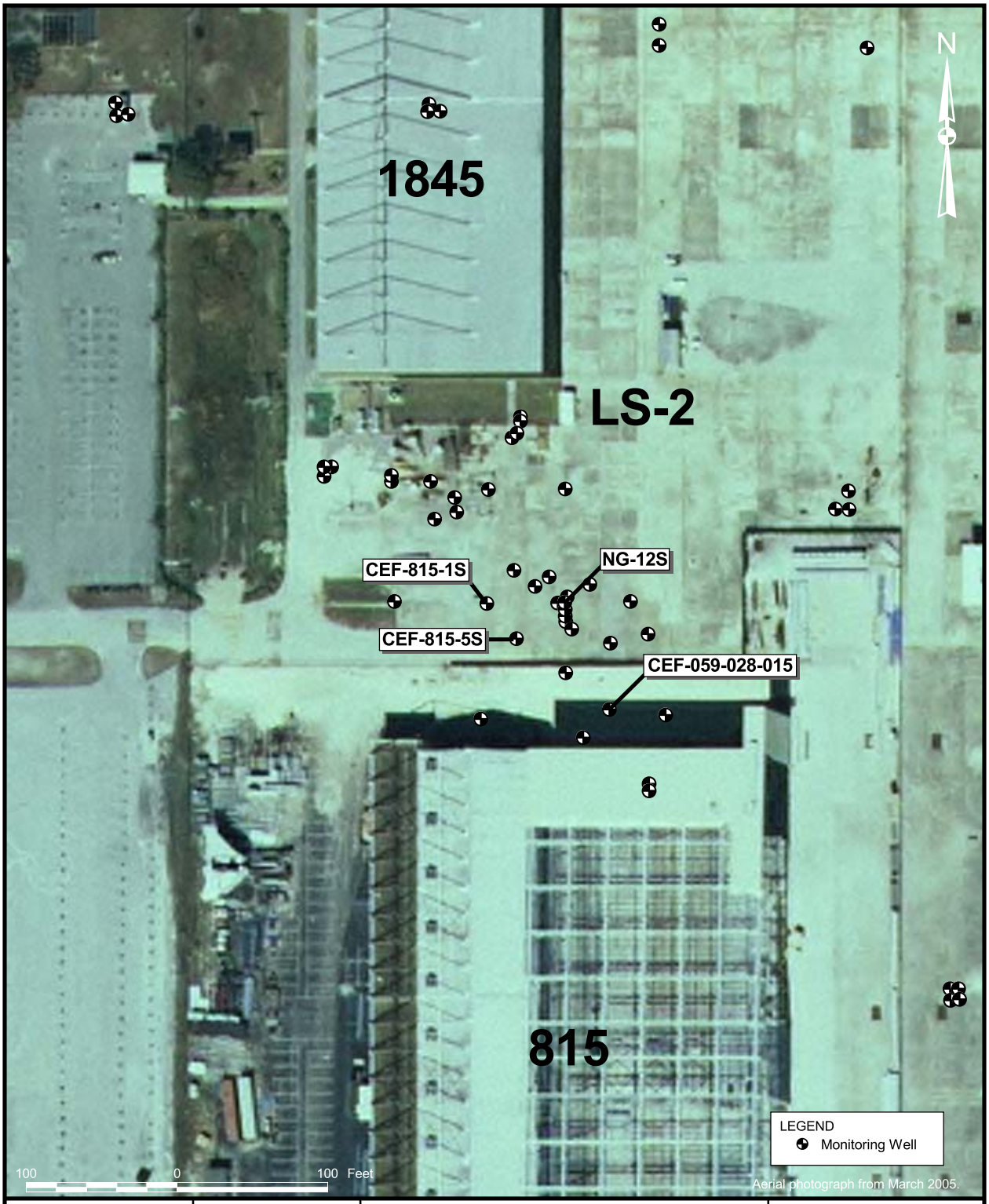

DRAWN BY MJJ	DATE 22Oct09	BUILDING 815 WASH RACK AREA 4th QUARTER, YEAR 1 EVENT - JULY 2009 NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 2267
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV 0

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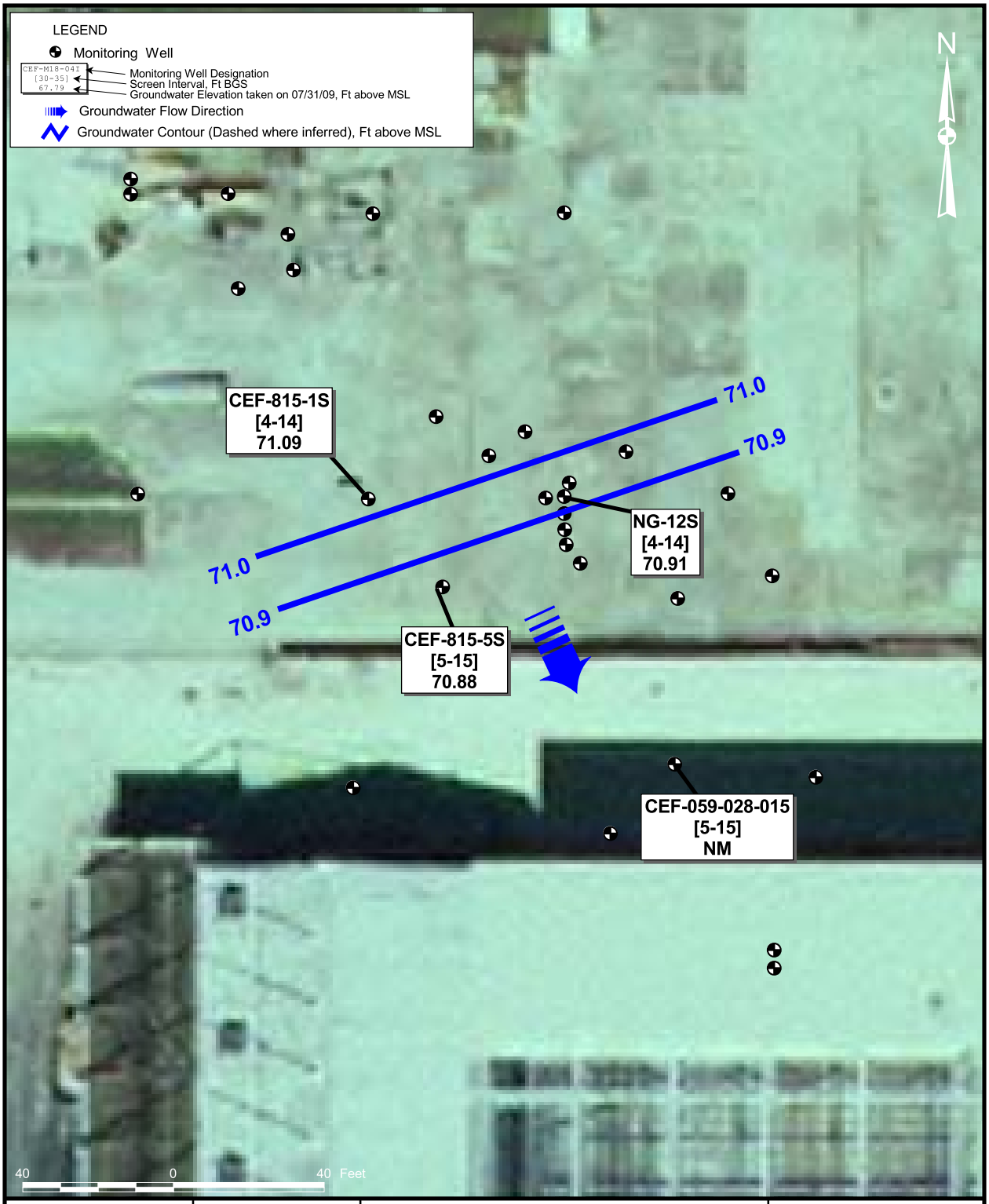

DRAWN BY MJJ	DATE 22Oct09	GROUNDWATER FLOW MAP BUILDING 815 WASH RACK AREA 4th QUARTER, YEAR 1 EVENT - JULY 2009 NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 2267
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3 / REV 0

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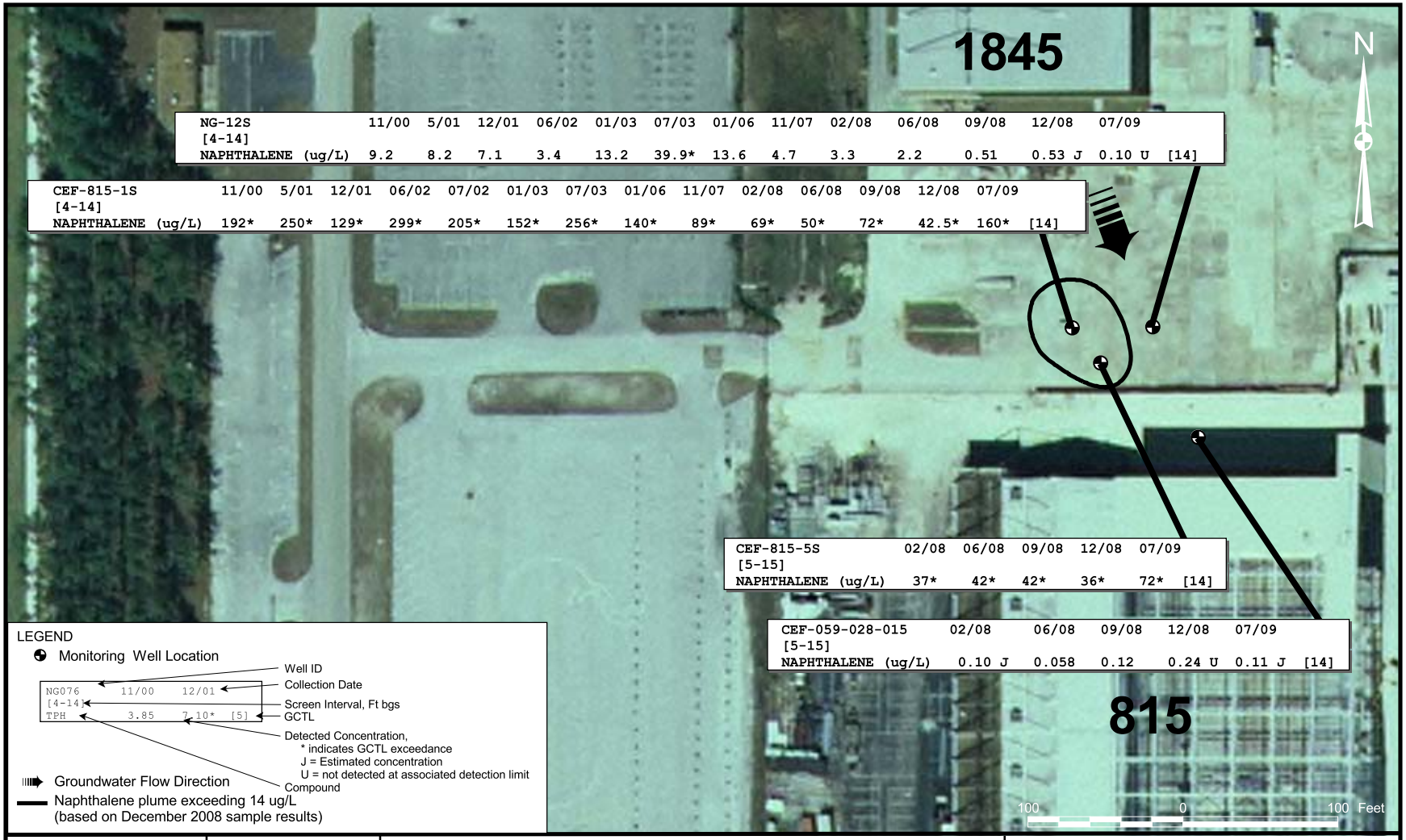

DRAWN BY	DATE
MJJ	22Oct09
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	AS NOTED

NAVFAC

GROUNDWATER CONCENTRATIONS
BUILDING 815 WASH RACK AREA
4th QUARTER, YEAR 1 EVENT - JULY 2009
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
2267	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 3	REV 0

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ATTACHMENT A

FIELD SAMPLING FORMS

Page___ of ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: 815 Wash Rack, Cecil Field
Project No.: 112G02267

Sample ID No.: CEF-815-1S 20090731
Sample Location: CEF-815-1S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: JK

SAMPLING DATA

Date: 7/31/09	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1449								
Method: Peristaltic	clear	6.18	.539	27.82	0.86	0.15	-234.2	

PURGE DATA

Date: 7/31/09	
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2"
Well Casing Material:	PVC
Total Well Depth (ft):	13.10
Static Water Level (ft):	4.46
One Screen Volume(gal/L):	5.6
Start Purge (hrs):	1400
End Purge (hrs):	1449
Total Purge Time (min):	49
Total Vol. Purged (gal/L):	19.6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Naphthalene 8270B		2- 1L Amber	Empirical	

OBSERVATIONS / NOTES

LAB INFO

LAB: Empirical
621 Mainstream Drive
Nashville, Tn
COC #: 26485

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: 815 Wash Rack, NAS Cecil Field
PROJECT NUMBER: 112G02267

WELL ID.: CEF 815-1S
DATE: 7/31/09

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1400	4.46	—	400	—	—	—	—	—	—	—
1440	4.75	16	400	6.18	.544	0.82	0.15	27.82	-234.3	
1443	4.76	17.2	400	6.18	.542	1.61	0.15	27.82	-234.5	
1446	4.75	18.4	400	6.18	.541	1.23	0.15	27.84	-234.3	
1449	4.75	19.6	400	6.18	.539	0.86	0.15	27.82	-234.2	
1451	Sample time									

SIGNATURE(S): _____

PAGE___OF___

Page___ of ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: 815 Wash Rack, NAS Cecil Field
Project No.: 112G02267

Sample ID No.: CEF-815-05S-20090731
Sample Location: CEF-815-05S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: JK

SAMPLING DATA

Date: 7/31/09 Time: 1354	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV
Method: Peristaltic	Clear	4.85	.088	27.81	0.59	0.20	-192.1

PURGE DATA

Date:	7/31/09
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2"
Well Casing Material:	PVC
Total Well Depth (ft):	5.00
Static Water Level (ft):	4.77
One Screen Volume(gal/L):	6.81
Start Purge (hrs):	1300
End Purge (hrs):	1354
Total Purge Time (min):	54
Total Vol. Purged (gal/L):	21.6

See Attached Low Flow Purge Data Sheet for Purge Data

3X = 20.4L

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements		Laboratory	Collected
Naphthalene 8270B			2- 1L Amber	Empirical	

OBSERVATIONS / NOTES

LAB INFO

LAB: Empirical
621 Mainstream Drive
Nashville, TN
COC #: 26485

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: 815 Wash Rack, NAS Cecil Field
PROJECT NUMBER: 112G02267

WELL ID.: CEF-815-05S
DATE: 7/31/09

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1300	4.77	—	400							
1345	4.89	18	400	4.86	.087	1.39	0.21	27.88	-186.8	
1348	4.89	19.2	400	4.86	.088	1.21	0.21	27.85	-189.0	
1351	4.88	20.4	400	4.85	.088	0.97	0.20	27.86	-190.2	
1354	4.88	21.6	400	4.85	.088	0.59	0.20	27.81	-192.1	
1359	Sample time									

SIGNATURE(S): _____

PAGE___OF___

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: 815 Wash Rack, NAS Cecil Field
Project No.: 112G02267

Sample ID No.: CEF-NG-12S-2009 07 31
Sample Location: NG-12S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: JS

SAMPLING DATA

Date: 7/31/09 Time: 1244	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	Clear	4.72	.084	29.68	3.36	0.43	-116.6	

PURGE DATA

Date:	
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2"
Well Casing Material:	PVC
Total Well Depth (ft):	13.40
Static Water Level (ft):	4.78
One Screen Volume(gal/L):	5.6 L
Start Purge (hrs):	1200
End Purge (hrs):	1244
Total Purge Time (min):	44
Total Vol. Purged (gal/L):	17.9

See Attached Low Flow Purge Data Sheet for Purge Data

3x = 16.9

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements		Laboratory	Collected
Naphthalene 8270B			2- 1L Amber	Empirical	

OBSERVATIONS / NOTES

LAB INFO

LAB: Empirical
621 Mainstream Drive
Nashville, TN
COC #: 26485

Check If Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: 815 Wash Rack, NAS Cecil Field
PROJECT NUMBER: 112G02267

WELL ID.: NG-12S
DATE: 7/31/09

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1200			400							
1235	4.87	14	400	4.72	.084	3.37	0.48	29.68	-115.3	
1238	4.87	15.2	400	4.73	.084	3.12	0.46	29.64	-111.1	
1241	4.87	16.4	400	4.72	.084	3.38	0.43	29.70	-117.2	
1244	4.87	17.6	400	4.72	.084	3.36	0.43	29.68	-116.6	
1250	Sample time									

SIGNATURE(S): _____

PAGE___OF___

Page___ of ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: 815 Wash Rack, NAS Cecil Field
Project No.: 112G02267

Sample ID No.: CEF-059-028-015-20090731
Sample Location: CEF-059-028-015

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: K

SAMPLING DATA

Date: 7/31/09 Time: 1116	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	Clear	5.40	.176	27.43	7.89	0.70	-151.1	

PURGE DATA

Date:	7/31/09
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2"
Well Casing Material:	PVC
Total Well Depth (ft):	15.00
Static Water Level (ft):	7.48
One Screen Volume(gal/L):	2.4
Start Purge (hrs):	1025
End Purge (hrs):	1116
Total Purge Time (min):	51
Total Vol. Purged (gal/L):	19.7

See Attached Low Flow Purge Data Sheet for Purge Data

3x = 7.2

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements		Laboratory	Collected
Naphthalene 8270B			2- 1L Amber	Empirical	

OBSERVATIONS / NOTES

LAB INFO

LAB: Empirical
621 Mainstream Drive
Nashville, TN
COC #: 26485

Check if Collected:

[X] MS / MSD

[X] DUPLICATE / ID No.: CEF-DUP01-20090731

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: 815 Wash Rack, NAS Cecil Field
PROJECT NUMBER: 11202267
WELL ID.: CEF-059-028-015
DATE: 7/31/09

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1025	7.48		400							
1040	7.63	6	400	5.58	.231	44.9	0.94	27.01	-122.7	
1110	7.63	18.0	400	5.41	.178	9.70	0.75	27.45	-146.5	
1113	7.63	18.9	300	5.40	.177	8.65	0.76	27.48	-150.1	
1116	7.63	19.7	300	5.40	.176	7.89	0.78	27.43	-151.1	
1120	Sample time									

SIGNATURE(S): _____

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: 815 Wash Rack
Project No.: 112G02267
Location: NAS Cecil Field
Personnel: Jeff Krone
Weather Conditions: Sunny 90°
Measuring Device:
Tidally Influenced: Yes ___ No _X_
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
CEF-815-1S	7/31/09	1205	75.56	13.10	4.46			
NG-12S		1200	75.69	13.40	4.78			
CEF-815-5S		1209	75.75	14.37	4.77			
CEF-059-028-015	7/31/09	1020	75.92	15.00	3.48			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

EQUIPMENT CALIBRATION LOG

PROJECT NAME : Cecil Field - CTO 102

SITE NAME: 815 Wash Rack

PROJECT No.: 112G01264

INSTRUMENT NAME/MODEL:

MANUFACTURER:

SERIAL NUMBER:

	Date of Calibration	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
				Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
YSI mps 556	7/31/09	06J159444	Jeff Kroll	pH 4.0		3.98	4.00	38D4313	exp 4/10
				pH 7.0		7.0	7.0	15D3830	" 3/10
				Cond 1.413		1.485	1.413	801111	" 6/10
				ORP 240		246.0	240.0	62589	" 1/13
				D.O		79.4	100.0		
Lamotte 2020e	7/31/09	MB-10867		10.0 NTU		10.4	10.0		
				1.00 NTU		-0.11	1.0		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

Analytical Report

Main Data Package – GC/MS Volatiles

Tetra Tech NUS, Inc.
Tobreena Skeen
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220

WO #0908002

Empirical Laboratories, LLC

Janice Shillling
Project Manager

August 17, 2009

THIS DOCUMENT MEETS NELAC STANDARDS
NELAC Certification #TN473

The results relate only to these samples. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

621 Mainstream Drive | Suite 270 | Nashville. TN 37228 | Tel (615)345-1115 | Fax (615)846-5426

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WO #0908002

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Organic Case Narrative	1
Chain of Custody & Sample Receipt Confirmation Forms	3
GC/MS Volatiles	
Sample Forms	5
QC Summary Forms	12
Initial Calibration Forms	19
Continuing Calibration Form	31
Logs	32
Last Page	49

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ORGANIC CASE NARRATIVE
Tetra Tech NUS – NAS Cecil Fields
Work Order: 0908002

Date Sampled	Date Received	Lab ID	Client ID
7/31/2009	8/1/2009	0908002-01	CEF-059-028-015-20090731
7/31/2009	8/1/2009	0908002-02	CEF-DUP01-20090731
7/31/2009	8/1/2009	0908002-03	CEF-NG-12S-20090731
7/31/2009	8/1/2009	0908002-04	CEF-815-05S-20090731
7/31/2009	8/1/2009	0908002-05	CEF-815-01S-20090731
7/31/2009	8/1/2009	0908002-06	Trip Blank
7/31/2009	8/1/2009	0908002-07	Trip Blank

GC/MS Volatiles

Method: The samples were analyzed for a client specified list by USEPA SW-846 Methods 5030B/8260B (purge and trap followed by capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following notes/exceptions:

- Analyte List: Samples were reported for a client specific list of naphthalene.
- BFB Tuning: All tuning criteria were met except.
- Calibration Criteria: All calibration criteria were met.
- Method Blank Results: No target analytes were detected in the method blank.
- Surrogate Recoveries: All recoveries were within limits.
- LCS/LCSD Results: All recoveries and relative percent differences were within limits.
- MS/MSD results: Not applicable.
- Internal Standard Area Counts: All area counts were within limits.
- Dilutions: All samples were analyzed without dilution.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manager

ANALYTICAL REPORT TERMS AND QUALIFIERS (ORGANIC)

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL) is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The data pass the identification criteria indicating that the compound is present, but the calculated result is less than the EQL.

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 26485 | PAGE ___ OF ___

PROJECT NO: 112G02267	FACILITY: Cecil Field 815 Wash Rack	PROJECT MANAGER: Rob Simcik	PHONE NUMBER	LABORATORY NAME AND CONTACT: Empirical Laboratories
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: Kara Wimble	PHONE NUMBER: 904 636-6125	ADDRESS: 621 mainstream Drive Suite 270
		CARRIER/WAYBILL NUMBER: FEDEX Airbill 866052744413		CITY, STATE: Nashville, TN 37228

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCl

TYPE OF ANALYSIS: VOC's 8260B Preliminary 4

DATE YEAR 2009	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	VOC's 8260B Preliminary 4								COMMENTS
		0.1°C															
7/31	1120	CEF-059-028-015-20090731		*		GW	G	6	X								* MS/MSD -01
7/31	0000	CEF-DUP01-20090731				GW	G	3	X								-02
7/31	1250	CEF-NG-123-20090731				GW	G	3	X								Cool to 4° C -03
7/31	1359	CEF-815-053-20090731				GW	G	3	X								-04
7/31	1451	CEF-815-013-20090731				GW	G	3	X								-05
		Trip Blank						4									-06, -07
																	0908002

1. RELINQUISHED BY	DATE 7/31/09	TIME 1600	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE 8/1/09	TIME 0815
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 8/1/09	TIME 08:15

COMMENTS

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

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 0908002 Number of Coolers: 1 of 1

Client: THWS Project: Wash Rack

Date/Time Received: 0815 8/1/09 Date cooler(s) opened: 8/1/09

Opened By (print): Frank Rivera (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive?: FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 4413

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 7-31-09 Seal Initials: [illegible]

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE Temperature of Samples upon Receipt: 0.1

Dates samples were logged-in: 8/3/09

9. Initial this form to acknowledge login of sample(s): (Name): **WILLIAM SCHWAB** (Initial): WS
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: 2 different sets of trip blanks CAR#: _____

rec'd, COC indicates 1 trip blank sample w/ 4 vial's. There 4 vials are actually two different trip blank numbers

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CEF-059-028
-015-20090731

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800201

Level: (low/med) LOW Date Sampled: 07/31/09 11:20

% Moisture: not dec. _____ Date Analyzed: 08/11/09 10:14

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CEF-DUP01
-20090731

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800202

Level: (low/med) LOW Date Sampled: 07/31/09 :

% Moisture: not dec. _____ Date Analyzed: 08/11/09 11:14

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CEF-NG-12
S-20090731

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800203

Level: (low/med) LOW Date Sampled: 07/31/09 12:50

% Moisture: not dec. _____ Date Analyzed: 08/11/09 11:44

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0	0.11	JB

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CEF-815-0
5S-20090731

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800204

Level: (low/med) LOW Date Sampled: 07/31/09 13:59

% Moisture: not dec. _____ Date Analyzed: 08/11/09 12:15

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0	72	B

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CEF-815-0
1S-20090731

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800205

Level: (low/med) LOW Date Sampled: 07/31/09 14:51

% Moisture: not dec. _____ Date Analyzed: 08/11/09 12:45

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0	160	B

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800206

Level: (low/med) LOW Date Sampled: 07/31/09 :

% Moisture: not dec. _____ Date Analyzed: 08/11/09 08:43

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0		U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 0908002-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0800207

Level: (low/med) LOW Date Sampled: 07/31/09 :

% Moisture: not dec. _____ Date Analyzed: 08/11/09 09:13

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0		U

FORM I VOA

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V3BLK0810ELC	107	101	97	98	0
02	V3BLK0810E	104	97	98	96	0
03	TRIP BLANK	106	105	99	96	0
04	TRIP BLANK	110	105	96	96	0
05	CEF-059-028-	106	102	97	98	0
06	CEF-DUP01-20	106	102	101	98	0
07	CEF-NG-12S-2	105	100	99	95	0
08	CEF-815-05S-	105	100	98	98	0
09	CEF-815-01S-	108	107	97	97	0
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		EL QC LIMITS	SPIKE CONC (ug/L)
SMC1 (DFM)	= Dibromofluoromethane	(85-120)	30
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-135)	30
SMC3 (TOL)	= Toluene-d8	(85-115)	30
SMC4 (BFB)	= Bromofluorobenzene	(85-120)	30

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate results reported from a diluted analysis

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix Spike - Client Sample No.: V3BLK0810E

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	50.00	0.1509	59.54	119	55-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM III VOA

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V3BLK0810E

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Lab File ID: V3BLK01E Lab Sample ID: 9H11016-BLK1

Date Analyzed: 08/11/09 Time Analyzed: 0742

Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA3

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V3BLK0810ELC	9H11016-BS1	V3LCS01E	0545
02	TRIP BLANK	0908002-06	0800206	0843
03	TRIP BLANK	0908002-07	0800207	0913
04	CEF-059-028-	0908002-01	0800201	1014
05	CEF-DUP01-20	0908002-02	0800202	1114
06	CEF-NG-12S-2	0908002-03	0800203	1144
07	CEF-815-05S-	0908002-04	0800204	1215
08	CEF-815-01S-	0908002-05	0800205	1245
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V3BLK0810E

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Matrix: (soil/water) WATER Lab Sample ID: 9H11016-BLK1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V3BLK01E

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. _____ Date Analyzed: 08/11/09 07:42

GC Column: RTX-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	MDL	RL	CONC	Q
91-20-3	Naphthalene	0.10	1.0	0.15	J

FORM I VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Lab File ID: V3BFB01 BFB Injection Date: 07/21/09

Instrument ID: VOA3 BFB Injection Time: 1733

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.8
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	1.2 (1.3)1
174	Greater than 50.0% of mass 95	88.1
175	5.0 - 9.0% of mass 174	7.1 (8.1)1
176	95.0 - 101.0% of mass 174	88.0 (99.8)1
177	5.0 - 9.0% of mass 176	7.3 (8.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD0.25PPB	V3STD0.25PPB	V3STD01	07/21/09	1903
02	V3STD0.5PPB	V3STD0.5PPB	V3STD02	07/21/09	1933
03	V3STD1PPB	V3STD1PPB	V3STD03	07/21/09	2003
04	V3STD2PPB	V3STD2PPB	V3STD04	07/21/09	2033
05	V3STD10PPB	V3STD10PPB	V3STD05	07/21/09	2103
06	V3STD20PPB	V3STD20PPB	V3STD06	07/21/09	2133
07	V3STD50PPB	V3STD50PPB	V3STD07	07/21/09	2203
08	V3BLK0721LCS	V3BLK0721LCS	V3ICV01	07/21/09	2233
09	V3STD100PPB	V3STD100PPB	V3STD08	07/21/09	2303
10	V3STD200PPB	V3STD200PPB	V3STD09	07/21/09	2333
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page 1 of 1

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Lab File ID: V3BFB01E BFB Injection Date: 08/11/09

Instrument ID: VOA3 BFB Injection Time: 0448

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.8
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	7.1
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	Greater than 50.0% of mass 95	91.0
175	5.0 - 9.0% of mass 174	6.7 (7.3)1
176	95.0 - 101.0% of mass 174	91.7 (100.8)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V3STD100PPB	V3STD100PPB	V3CCV01E	08/11/09	0515
02	V3BLK0810ELC	9H11016-BS1	V3LCS01E	08/11/09	0545
03	V3BLK0810E	9H11016-BLK1	V3BLK01E	08/11/09	0742
04	TRIP BLANK	0908002-06	0800206	08/11/09	0843
05	TRIP BLANK	0908002-07	0800207	08/11/09	0913
06	CEF-059-028-	0908002-01	0800201	08/11/09	1014
07	CEF-DUP01-20	0908002-02	0800202	08/11/09	1114
08	CEF-NG-12S-2	0908002-03	0800203	08/11/09	1144
09	CEF-815-05S-	0908002-04	0800204	08/11/09	1215
10	CEF-815-01S-	0908002-05	0800205	08/11/09	1245
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FORM V VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Lab File ID (Standard): V3CCV01E Date Analyzed: 08/11/09

Instrument ID: VOA3 Time Analyzed: 0515

GC Column: RTX-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	1226670	12.91	628212	16.43	769592	18.45
	UPPER LIMIT	2453340	13.41	1256424	16.93	1539184	18.95
	LOWER LIMIT	613335	12.41	314106	15.93	384796	17.95
	CLIENT SAMPLE NO.						
01	V3BLK0810ELC	1250148	12.91	618992	16.43	781352	18.45
02	V3BLK0810E	1248498	12.91	586150	16.43	703058	18.45
03	TRIP BLANK	1219456	12.91	576229	16.43	699277	18.45
04	TRIP BLANK	1182640	12.91	566196	16.43	702385	18.45
05	CEF-059-028-	1211930	12.91	576350	16.43	698556	18.45
06	CEF-DUP01-20	1196697	12.91	560669	16.43	686576	18.45
07	CEF-NG-12S-2	1194056	12.91	562251	16.43	677027	18.45
08	CEF-815-05S-	1196022	12.91	567845	16.43	709408	18.45
09	CEF-815-01S-	1149075	12.91	547061	16.43	690226	18.45
10							
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22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

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

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FORM VIII VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
Acetone	0.286	0.208	0.186	0.063	0.143
Acrolein		0.004	0.008	0.009	0.006
Acrylonitrile		0.112	0.128	0.119	0.121
tert-Amyl Methyl Ether	1.935	1.195	0.893	0.708	0.559
Benzene	0.729	0.718	0.838	0.809	0.747
Bromobenzene	0.538	0.531	0.632	0.604	0.589
Bromochloromethane			0.112	0.112	0.107
Bromodichloromethane	0.268	0.255	0.255	0.252	0.238
Bromoform	0.268	0.344	0.371	0.330	0.354
Bromomethane	0.057	0.080	0.058	0.061	0.054
2-Butanone		0.028	0.116	0.114	0.142
t-Butyl alcohol	0.009	0.030	0.030	0.016	0.027
n-Butylbenzene	1.090	1.024	1.143	1.098	0.994
sec-Butylbenzene	1.822	1.752	1.909	1.905	1.668
tert-Butylbenzene	1.569	1.531	1.608	1.595	1.399
Carbon disulfide	0.488	0.545	0.560	0.555	0.491
Carbon tetrachloride	0.241	0.286	0.262	0.258	0.226
Chlorobenzene	1.420	1.421	1.640	1.654	1.483
Chloroethane	0.104	0.122	0.085	0.130	0.067
2-Chloroethyl vinyl ether	0.155	0.190	0.176	0.174	0.181
Chloroform	0.393	0.409	0.348	0.303	0.285
Chloromethane	0.334	0.281	0.367	0.335	0.298
2-Chlorotoluene	1.165	1.292	1.488	1.405	1.326
4-Chlorotoluene	1.425	1.459	1.458	1.455	1.330
Cyclohexane	0.556	0.498	0.466	0.487	0.408
Dibromochloromethane	0.386	0.417	0.463	0.441	0.449
1,2-Dibromo-3-chloropropane	0.105	0.113	0.108	0.103	0.099
1,2-Dibromoethane	0.472	0.445	0.446	0.498	0.476
Dibromomethane	0.113	0.122	0.137	0.123	0.125
1,2-Dichlorobenzene	1.023	1.009	1.111	1.112	1.017
1,3-Dichlorobenzene	0.964	1.167	1.189	1.201	1.080
1,4-Dichlorobenzene	1.180	1.210	1.247	1.174	1.122
Dichlorodifluoromethane			0.103	0.109	0.165
1,1-Dichloroethane		0.380	0.409	0.423	0.370
1,2-Dichloroethane	0.308	0.311	0.349	0.340	0.320
1,1-Dichloroethene	0.211	0.211	0.184	0.170	0.149
cis-1,2-Dichloroethene		0.135	0.187	0.208	0.192

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2-Dichloroethene(total)	0.143	0.156	0.192	0.203	0.189
trans-1,2-Dichloroethene	0.195	0.178	0.198	0.199	0.186
1,2-Dichloropropane	0.242	0.264	0.263	0.257	0.246
1,3-Dichloropropane	0.626	0.690	0.695	0.709	0.663
2,2-Dichloropropane			0.234	0.239	0.194
1,1-Dichloropropene	0.259	0.290	0.261	0.270	0.225
cis-1,3-Dichloropropene	0.285	0.329	0.327	0.333	0.319
trans-1,3-Dichloropropene	0.565	0.564	0.611	0.633	0.602
Ethylbenzene	2.561	2.765	2.708	2.742	2.410
Ethyl methacrylate			0.550	0.573	0.583
Hexachlorobutadiene	0.286	0.321	0.349	0.335	0.280
2-Hexanone		0.206	0.456	0.466	0.515
Iodomethane	0.127	0.091	0.192	0.200	0.212
Isopropylbenzene	2.588	2.649	2.647	2.642	2.379
p-Isopropyltoluene	1.217	1.248	1.400	1.409	1.215
Methyl acetate			0.231	0.327	0.281
Methylene chloride	0.663	0.444	0.278	0.259	0.198
Methyl cyclohexane	0.251	0.302	0.287	0.288	0.237
Methyl methacrylate	0.030	0.025	0.326	0.262	0.298
4-Methyl-2-pentanone		0.248	0.253	0.313	0.347
MTBE		0.544	0.510	0.519	0.514
Naphthalene	1.017	1.163	1.070	1.073	1.063
n-Propylbenzene	1.829	1.826	2.080	2.102	1.833
Styrene	1.726	1.612	1.876	1.860	1.803
1,1,1,2-Tetrachloroethane	0.565	0.487	0.517	0.518	0.481
1,1,2,2-Tetrachloroethane	0.464	0.393	0.424	0.417	0.383
Tetrachloroethene	0.590	0.640	0.649	0.629	0.586
Tetrahydrofuran			0.042	0.094	0.090
Toluene	1.436	1.354	1.427	1.368	1.226
1,2,3-Trichlorobenzene	0.570	0.588	0.572	0.573	0.540
1,2,4-Trichlorobenzene	0.715	0.710	0.657	0.637	0.620
1,1,1-Trichloroethane		0.260	0.266	0.266	0.238
1,1,2-Trichloroethane	0.377	0.372	0.350	0.327	0.319
Trichloroethene	0.232	0.229	0.232	0.235	0.205
Trichlorofluoromethane	0.228	0.265	0.296	0.319	0.266
Trichlorotrifluoroethane	0.178	0.142	0.174	0.194	0.157
1,2,3-Trichloropropane	0.185	0.207	0.170	0.197	0.177

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF0.25: V3STD01 RF0.5: V3STD02 RF1: V3STD03
RF2: V3STD04 RF10: V3STD05

COMPOUND	RF0.25	RF0.5	RF1	RF2	RF10
1,2,4-Trimethylbenzene	1.592	1.591	1.628	1.618	1.519
1,3,5-Trimethylbenzene	1.550	1.555	1.622	1.619	1.494
Vinyl acetate		0.490	0.572	0.612	0.603
Vinyl chloride	0.173	0.197	0.149	0.165	0.201
m,p-Xylene	2.315	2.193	2.238	2.180	1.958
Xylene(total)	7.122	6.810	6.821	6.650	6.018
1-Chlorohexane	1.232	0.887	0.794	0.726	0.611
Di-isopropyl ether	0.476	0.376	0.607	0.470	1.044
ETBE		0.766	0.819	0.848	0.789
Dibromofluoromethane	0.235	0.248	0.237	0.239	0.240
1,2-Dichloroethane-d4	0.057	0.062	0.057	0.058	0.060
Toluene-d8	2.275	2.269	2.237	2.268	2.275
Bromofluorobenzene	1.033	1.048	1.027	1.032	1.020

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
Acetone	0.109	0.143	0.143	0.140
Acrolein	0.007	0.009	0.010	0.011
Acrylonitrile	0.120	0.122	0.122	0.115
tert-Amyl Methyl Ether	0.559	0.569	0.581	0.560
Benzene	0.785	0.801	0.800	0.738
Bromobenzene	0.602	0.621	0.630	0.605
Bromochloromethane	0.110	0.113	0.118	0.118
Bromodichloromethane	0.240	0.257	0.265	0.262
Bromoform	0.380	0.418	0.449	0.424
Bromomethane	0.065	0.072	0.098	0.100
2-Butanone	0.150	0.164	0.167	0.168
t-Butyl alcohol	0.026	0.028	0.029	0.028
n-Butylbenzene	1.117	1.145	1.100	1.024
sec-Butylbenzene	1.848	1.844	1.742	1.506
tert-Butylbenzene	1.525	1.534	1.463	1.276
Carbon disulfide	0.557	0.568	0.574	0.582
Carbon tetrachloride	0.257	0.269	0.271	0.278
Chlorobenzene	1.533	1.515	1.457	1.227
Chloroethane	0.102	0.119	0.126	0.126
2-Chloroethyl vinyl ether	0.181	0.189	0.189	0.179
Chloroform	0.286	0.303	0.312	0.307
Chloromethane	0.304	0.312	0.305	0.305
2-Chlorotoluene	1.418	1.433	1.397	1.254
4-Chlorotoluene	1.414	1.430	1.382	1.232
Cyclohexane	0.457	0.458	0.439	0.452
Dibromochloromethane	0.483	0.520	0.537	0.505
1,2-Dibromo-3-chloropropane	0.105	0.121	0.131	0.134
1,2-Dibromoethane	0.483	0.492	0.490	0.451
Dibromomethane	0.123	0.130	0.130	0.129
1,2-Dichlorobenzene	1.067	1.100	1.081	0.988
1,3-Dichlorobenzene	1.124	1.135	1.132	1.043
1,4-Dichlorobenzene	1.156	1.158	1.135	1.012
Dichlorodifluoromethane	0.172	0.169	0.167	0.188
1,1-Dichloroethane	0.398	0.410	0.423	0.423
1,2-Dichloroethane	0.326	0.332	0.341	0.338
1,1-Dichloroethene	0.167	0.169	0.170	0.175
cis-1,2-Dichloroethene	0.198	0.206	0.212	0.213

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2-Dichloroethene(total)	0.194	0.202	0.207	0.208
trans-1,2-Dichloroethene	0.191	0.198	0.202	0.202
1,2-Dichloropropane	0.252	0.260	0.264	0.258
1,3-Dichloropropane	0.694	0.683	0.678	0.601
2,2-Dichloropropane	0.210	0.218	0.217	0.219
1,1-Dichloropropene	0.256	0.260	0.260	0.260
cis-1,3-Dichloropropene	0.331	0.339	0.345	0.330
trans-1,3-Dichloropropene	0.630	0.653	0.657	0.590
Ethylbenzene	2.550	2.478	2.269	1.766
Ethyl methacrylate	0.600	0.609	0.616	0.562
Hexachlorobutadiene	0.320	0.330	0.343	0.346
2-Hexanone	0.541	0.548	0.539	0.470
Iodomethane	0.243	0.288	0.323	0.333
Isopropylbenzene	2.594	2.484	2.309	1.787
p-Isopropyltoluene	1.342	1.362	1.322	1.207
Methyl acetate	0.287	0.294	0.297	0.294
Methylene chloride	0.194	0.196	0.200	0.202
Methyl cyclohexane	0.277	0.279	0.276	0.284
Methyl methacrylate	0.307	0.329	0.332	0.324
4-Methyl-2-pentanone	0.335	0.349	0.344	0.318
MTBE	0.517	0.543	0.555	0.556
Naphthalene	1.148	1.136	1.207	1.194
n-Propylbenzene	1.997	1.996	1.865	1.573
Styrene	1.897	1.882	1.811	1.491
1,1,1,2-Tetrachloroethane	0.513	0.519	0.535	0.478
1,1,2,2-Tetrachloroethane	0.383	0.382	0.375	0.356
Tetrachloroethene	0.636	0.637	0.623	0.576
Tetrahydrofuran	0.094	0.100	0.102	0.104
Toluene	1.298	1.299	1.267	1.106
1,2,3-Trichlorobenzene	0.569	0.580	0.616	0.615
1,2,4-Trichlorobenzene	0.651	0.679	0.705	0.699
1,1,1-Trichloroethane	0.271	0.278	0.281	0.286
1,1,2-Trichloroethane	0.328	0.318	0.316	0.290
Trichloroethene	0.215	0.223	0.222	0.216
Trichlorofluoromethane	0.301	0.307	0.309	0.335
Trichlorotrifluoroethane	0.175	0.179	0.170	0.180
1,2,3-Trichloropropane	0.187	0.184	0.185	0.173

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

LAB FILE ID: RF20: V3STD06 RF50: V3STD07 RF100: V3STD08
RF200: V3STD09

COMPOUND	RF20	RF50	RF100	RF200
1,2,4-Trimethylbenzene	1.615	1.611	1.561	1.376
1,3,5-Trimethylbenzene	1.582	1.584	1.523	1.345
Vinyl acetate	0.604	0.626	0.617	0.602
Vinyl chloride	0.206	0.205	0.204	0.207
m,p-Xylene	2.028	1.913	1.672	
Xylene(total)	6.235	5.929	5.290	3.958
1-Chlorohexane	0.657	0.649	0.613	0.540
Di-isopropyl ether	1.074	1.131	1.182	1.160
ETBE	0.800	0.850	0.864	0.846
Dibromofluoromethane	0.237	0.242	0.237	0.240
1,2-Dichloroethane-d4	0.059	0.058	0.059	0.060
Toluene-d8	2.288	2.248	2.259	2.173
Bromofluorobenzene	1.047	1.010	0.990	0.955

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
Acetone	LINR	6.005e-002	0.14162573		0.999
Acrolein	LINR	0.65034740	1.066e-002		0.996
Acrylonitrile	AVRG		0.11985027		4.1
tert-Amyl Methyl Ether	LINR	-2.03e-002	0.56177737		1.000
Benzene	AVRG		0.77381480		5.4
Bromobenzene	AVRG		0.59486817		6.2
Bromochloromethane	AVRG		0.11280644		3.6
Bromodichloromethane	AVRG		0.25462209		4.0
Bromoform	AVRG		0.37089496		14.9
Bromomethane	LINR	0.11771300	0.10084616		0.995
2-Butanone	LINR	6.668e-002	0.16831805		1.000
t-Butyl alcohol	LINR	4.537e-002	2.834e-002		1.000
n-Butylbenzene	AVRG		1.08164640		5.1
sec-Butylbenzene	AVRG		1.77754943		7.2
tert-Butylbenzene	AVRG		1.50009846		7.1
Carbon disulfide	AVRG		0.54678486		6.3
Carbon tetrachloride	AVRG		0.26084840		7.1
Chlorobenzene	AVRG		1.48336855		8.6
Chloroethane	LINR	5.466e-002	0.12732887		0.999
2-Chloroethyl vinyl ether	AVRG		0.17937691		6.0
Chloroform	AVRG		0.32735753		14.0
Chloromethane	AVRG		0.31571231		8.1
2-Chlorotoluene	AVRG		1.35308993		7.5
4-Chlorotoluene	AVRG		1.39844246		5.4
Cyclohexane	AVRG		0.46898830		8.9
Dibromochloromethane	AVRG		0.46685036		10.6
1,2-Dibromo-3-chloropropane	AVRG		0.11325365		11.2
1,2-Dibromoethane	AVRG		0.47266569		4.4
Dibromomethane	AVRG		0.12584257		5.4
1,2-Dichlorobenzene	AVRG		1.05652464		4.5
1,3-Dichlorobenzene	AVRG		1.11519294		6.8
1,4-Dichlorobenzene	AVRG		1.15478602		5.7
Dichlorodifluoromethane	LINR	8.536e-002	0.18665647		0.997
1,1-Dichloroethane	AVRG		0.40456398		5.0
1,2-Dichloroethane	AVRG		0.32949147		4.3
1,1-Dichloroethene	AVRG		0.17848794		11.6
cis-1,2-Dichloroethene	AVRG		0.19375613		13.2

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2-Dichloroethene(total)	AVRG		0.18836349		12.2
trans-1,2-Dichloroethene	AVRG		0.19437232		4.2
1,2-Dichloropropane	AVRG		0.25631888		3.0
1,3-Dichloropropane	AVRG		0.67097619		5.3
2,2-Dichloropropane	AVRG		0.21867295		6.8
1,1-Dichloropropene	AVRG		0.26018290		6.5
cis-1,3-Dichloropropene	AVRG		0.32672004		5.2
trans-1,3-Dichloropropene	AVRG		0.61164382		5.6
Ethylbenzene	AVRG		2.47225258		12.6
Ethyl methacrylate	AVRG		0.58475586		4.2
Hexachlorobutadiene	AVRG		0.32342282		7.7
2-Hexanone	2ORDR	7.538e-002	1.55605350	8.848e-002	1.000
Iodomethane	LINR	8.149e-002	0.33434698		0.999
Isopropylbenzene	AVRG		2.45349307		11.4
p-Isopropyltoluene	AVRG		1.30267008		6.3
Methyl acetate	AVRG		0.28730904		10.0
Methylene chloride	LINR	1.387e-003	0.20166010		1.000
Methyl cyclohexane	AVRG		0.27564205		7.2
Methyl methacrylate	LINR	9.066e-003	0.32673422		1.000
4-Methyl-2-pentanone	AVRG		0.31348310		13.1
MTBE	AVRG		0.53241480		3.6
Naphthalene	AVRG		1.11893139		5.8
n-Propylbenzene	AVRG		1.90018733		8.6
Styrene	AVRG		1.77307283		7.9
1,1,1,2-Tetrachloroethane	AVRG		0.51259620		5.4
1,1,2,2-Tetrachloroethane	AVRG		0.39753553		8.1
Tetrachloroethene	AVRG		0.61852186		4.4
Tetrahydrofuran	LINR	4.513e-002	0.10480751		1.000
Toluene	AVRG		1.30912151		7.9
1,2,3-Trichlorobenzene	AVRG		0.58032089		4.1
1,2,4-Trichlorobenzene	AVRG		0.67470186		5.2
1,1,1-Trichloroethane	AVRG		0.26826932		5.6
1,1,2-Trichloroethane	AVRG		0.33310338		8.4
Trichloroethene	AVRG		0.22312487		4.4
Trichlorofluoromethane	AVRG		0.29169462		11.3
Trichlorotrifluoroethane	AVRG		0.17215741		8.6
1,2,3-Trichloropropane	AVRG		0.18511571		6.3

FORM VI VOA

FORM 6
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date(s): 07/21/09 07/21/09

Column: RTX-VRX ID: 0.25 (mm) Calibration Time(s): 1903 2333

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2
1,2,4-Trimethylbenzene	AVRG		1.56787994		5.1
1,3,5-Trimethylbenzene	AVRG		1.54168331		5.5
Vinyl acetate	AVRG		0.59084874		7.4
Vinyl chloride	AVRG		0.18962315		11.4
m,p-Xylene	AVRG		2.06218685		10.2
Xylene(total)	2ORDR	5.142e-002	9.562e-002	5.773e-003	0.998
1-Chlorohexane	LINR	-8.18e-002	0.55166604		0.995
Di-isopropyl ether	LINR	2.492e-002	1.16851211		1.000
ETBE	AVRG		0.82293281		4.2
Dibromofluoromethane	AVRG		0.23938893		1.6
1,2-Dichloroethane-d4	AVRG		5.904e-002		2.7
Toluene-d8	AVRG		2.25466993		1.5
Bromofluorobenzene	AVRG		1.01816730		2.9

FORM VI VOA

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date: 07/21/09 Time: 2233

Lab File ID: V3ICV01 Init. Calib. Date(s): 07/21/09 07/21/09

Heated Purge: (Y/N) N Init. Calib. Times: 1903 2333

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Acetone	0.158	0.144	100.0	103.1		LINR	3.1	25.0
Acrolein	0.008	0.010	250.0	244.5		LINR	-2.2	25.0
Acrylonitrile	0.120	0.120	250.0	251.2		AVRG	0.5	25.0
tert-Amyl Methyl Ether	0.840	0.576	50.00	50.69		LINR	1.4	25.0
Benzene	0.774	0.804	50.00	51.98		AVRG	4.0	25.0
Bromobenzene	0.595	0.632	50.00	53.16		AVRG	6.3	25.0
Bromochloromethane	0.113	0.121	50.00	53.77		AVRG	7.5	25.0
Bromodichloromethane	0.255	0.262	50.00	51.48		AVRG	3.0	25.0
Bromoform	0.371	0.437	50.00	58.88	0.100	AVRG	17.8	25.0
Bromomethane	0.072	0.069	50.00	37.94		LINR	-24.1	25.0
2-Butanone	0.131	0.161	100.0	97.94		LINR	-2.0	25.0
t-Butyl alcohol	0.025	0.028	250.0	245.2		LINR	-1.9	25.0
n-Butylbenzene	1.082	1.180	50.00	54.55		AVRG	9.1	25.0
sec-Butylbenzene	1.777	1.767	50.00	49.71		AVRG	-0.6	25.0
tert-Butylbenzene	1.500	1.469	50.00	48.97		AVRG	-2.1	25.0
Carbon disulfide	0.547	0.588	50.00	53.76		AVRG	7.5	25.0
Carbon tetrachloride	0.261	0.269	50.00	51.56		AVRG	3.1	25.0
Chlorobenzene	1.483	1.530	50.00	51.58	0.300	AVRG	3.2	25.0
Chloroethane	0.109	0.097	50.00	39.67		LINR	-20.7	25.0
2-Chloroethyl vinyl ether	0.179	0.191	100.0	106.4		AVRG	6.4	25.0
Chloroform	0.327	0.322	50.00	49.17		AVRG	-1.7	25.0
Chloromethane	0.316	0.302	50.00	47.77	0.100	AVRG	-4.4	25.0
2-Chlorotoluene	1.353	1.407	50.00	51.99		AVRG	4.0	25.0
4-Chlorotoluene	1.398	1.422	50.00	50.84		AVRG	1.7	25.0
Cyclohexane	0.469	0.452	50.00	48.17		AVRG	-3.7	25.0
Dibromochloromethane	0.467	0.525	50.00	56.20		AVRG	12.4	25.0
1,2-Dibromo-3-chloropropane	0.113	0.126	50.00	55.75		AVRG	11.5	25.0
1,2-Dibromoethane	0.472	0.511	50.00	54.04		AVRG	8.1	25.0
Dibromomethane	0.126	0.136	50.00	53.86		AVRG	7.7	25.0
1,2-Dichlorobenzene	1.056	1.108	50.00	52.42		AVRG	4.8	25.0
1,3-Dichlorobenzene	1.115	1.150	50.00	51.58		AVRG	3.2	25.0
1,4-Dichlorobenzene	1.155	1.154	50.00	49.97		AVRG	-0.0	25.0
Dichlorodifluoromethane	0.153	0.177	50.00	50.02		LINR	0.0	25.0
1,1-Dichloroethane	0.404	0.421	50.00	52.04	0.100	AVRG	4.1	25.0
1,2-Dichloroethane	0.329	0.340	50.00	51.52		AVRG	3.0	25.0
1,1-Dichloroethene	0.178	0.171	50.00	47.82		AVRG	-4.4	25.0
cis-1,2-Dichloroethene	0.194	0.213	50.00	55.05		AVRG	10.1	25.0

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date: 07/21/09 Time: 2233

Lab File ID: V3ICV01 Init. Calib. Date(s): 07/21/09 07/21/09

Heated Purge: (Y/N) N Init. Calib. Times: 1903 2333

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2-Dichloroethene(total)	0.188	0.206	100.0	105.9		AVRG	9.1	25.0
trans-1,2-Dichloroethene	0.194	0.198	50.00	50.88		AVRG	1.8	25.0
1,2-Dichloropropane	0.256	0.268	50.00	52.18		AVRG	4.4	25.0
1,3-Dichloropropane	0.671	0.721	50.00	53.76		AVRG	7.5	25.0
2,2-Dichloropropane	0.219	0.225	50.00	51.45		AVRG	2.9	25.0
1,1-Dichloropropene	0.260	0.258	50.00	49.67		AVRG	-0.7	25.0
cis-1,3-Dichloropropene	0.326	0.340	50.00	52.12		AVRG	4.2	25.0
trans-1,3-Dichloropropene	0.612	0.638	50.00	52.20		AVRG	4.4	25.0
Ethylbenzene	2.472	2.462	50.00	49.80		AVRG	-0.4	25.0
Ethyl methacrylate	0.585	0.654	50.00	55.94		AVRG	11.9	25.0
Hexachlorobutadiene	0.323	0.307	50.00	47.42		AVRG	-5.2	25.0
2-Hexanone	0.468	0.554	100.0	97.48		2ORDR	-2.5	25.0
Iodomethane	0.223	0.295	50.00	46.60		LINR	-6.8	25.0
Isopropylbenzene	2.453	2.186	50.00	44.54		AVRG	-10.9	25.0
p-Isopropyltoluene	1.302	1.369	50.00	52.54		AVRG	5.1	25.0
Methyl acetate	0.287	0.298	50.00	51.85		AVRG	3.7	25.0
Methylene chloride	0.293	0.207	50.00	51.34		LINR	2.7	25.0
Methyl cyclohexane	0.276	0.269	50.00	48.87		AVRG	-2.2	25.0
Methyl methacrylate	0.248	0.337	50.00	51.91		LINR	3.8	25.0
4-Methyl-2-pentanone	0.313	0.353	100.0	112.7		AVRG	12.7	25.0
MTBE	0.532	0.543	50.00	51.00		AVRG	2.0	25.0
Naphthalene	1.119	1.189	50.00	53.13		AVRG	6.2	25.0
n-Propylbenzene	1.900	2.032	50.00	53.48		AVRG	7.0	25.0
Styrene	1.773	1.864	50.00	52.57		AVRG	5.1	25.0
1,1,1,2-Tetrachloroethane	0.512	0.537	50.00	52.40		AVRG	4.8	25.0
1,1,2,2-Tetrachloroethane	0.397	0.377	50.00	47.42	0.300	AVRG	-5.2	25.0
Tetrachloroethene	0.618	0.672	50.00	54.30		AVRG	8.6	25.0
Tetrahydrofuran	0.089	0.102	50.00	50.29		LINR	0.6	25.0
Toluene	1.309	1.294	50.00	49.42		AVRG	-1.1	25.0
1,2,3-Trichlorobenzene	0.580	0.604	50.00	52.02		AVRG	4.0	25.0
1,2,4-Trichlorobenzene	0.675	0.681	50.00	50.46		AVRG	0.9	25.0
1,1,1-Trichloroethane	0.268	0.294	50.00	54.75		AVRG	9.5	25.0
1,1,2-Trichloroethane	0.333	0.345	50.00	51.85		AVRG	3.7	25.0
Trichloroethene	0.223	0.224	50.00	50.10		AVRG	0.2	25.0
Trichlorofluoromethane	0.292	0.301	50.00	51.63		AVRG	3.3	25.0
Trichlorotrifluoroethane	0.172	0.179	50.00	51.91		AVRG	3.8	25.0
1,2,3-Trichloropropane	0.185	0.194	50.00	52.38		AVRG	4.8	25.0

page 2 of 3

ICV VOA

VOLATILE INITIAL CALIBRATION VERIFICATION

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA32769

Instrument ID: VOA3 Calibration Date: 07/21/09 Time: 2233

Lab File ID: V3ICV01 Init. Calib. Date(s): 07/21/09 07/21/09

Heated Purge: (Y/N) N Init. Calib. Times: 1903 2333

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
1,2,4-Trimethylbenzene	1.568	1.609	50.00	51.31		AVRG	2.6	25.0
1,3,5-Trimethylbenzene	1.542	1.584	50.00	51.37		AVRG	2.7	25.0
Vinyl acetate	0.591	0.601	100.0	101.6		AVRG	1.6	25.0
Vinyl chloride	0.190	0.216	50.00	57.09		AVRG	14.2	25.0
Xylene(total)	6.092	5.844	150.0	139.5		2ORDR	-7.0	25.0
1-Chlorohexane	0.745	0.637	50.00	55.32		LINR	10.6	25.0
Di-isopropyl ether	0.836	1.147	50.00	49.83		LINR	-0.3	25.0
ETBE	0.823	0.849	50.00	51.58		AVRG	3.2	25.0
Dibromofluoromethane	0.239	0.237	30.00	29.72		AVRG	-0.9	25.0
1,2-Dichloroethane-d4	0.059	0.061	30.00	31.19		AVRG	4.0	25.0
Toluene-d8	2.255	2.270	30.00	30.20		AVRG	0.7	25.0
Bromofluorobenzene	1.018	1.012	30.00	29.81		AVRG	-0.6	25.0

page 3 of 3

ICV VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMPIRICAL LABS Contract: TETRATECH

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: TET.V08002

Instrument ID: VOA3 Calibration Date: 08/11/09 Time: 0515

Lab File ID: V3CCV01E Init. Calib. Date(s): 12/17/08 07/21/09

Heated Purge: (Y/N) N Init. Calib. Times: 1502 2333

GC Column: RTX-VRX ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF100	CURVE AMOUNT	CCAL AMOUNT	MIN RRF	CURVE	%D	MAX %D
Naphthalene	1.119	1.313	100.0	117.3		AVRG	17.3	20.0
Dibromofluoromethane	0.239	0.260	30.00	32.64		AVRG	8.8	
1,2-Dichloroethane-d4	0.059	0.061	30.00	31.22		AVRG	4.1	
Toluene-d8	2.255	2.118	30.00	28.18		AVRG	-6.1	
Bromofluorobenzene	1.018	0.975	30.00	28.74		AVRG	-4.2	

FORM VII VOA

Empirical Laboratories

Empirical Laboratories, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7248 (2,4) 7253 (1-6)	416pm/81009/DL			VOA
7256-01 7257-01	↓			↓
7258-01 7260 (1-2)				
7261 (1-2) 8037 (1-4)				
7255-01 7262 (1-2)	506pm/81009/DL			VOA
7262 (3-4) 8002 (1-4)	↓			↓
8003 (1-3) 8008-02				
7106 35,36	730pm/81009/DL			VOA
8052-01 8054-01	1228pm/81109/DL	KMV 8/11/09 5:30	Screens	VOA
8059 (1-10) 8061 (1-11)	↓	↓	↓	↓
8062 (1-12) 8066 (1-2)				
7253-01 8017 (1-4)	4pm 81109/DL			VOA
8021-01 8057 (1-12)	↓			↓
8020 (1-2) 8022-01	1115am/81309/DL			VOA
8023 (1-25) 8047 (1-6)	↓			↓
8048-01 8060-02				
8044 (1-13) 8046 (1-12)	1140am/81309/DL			VOA
8062 (1-12)	↓			↓
8060-01 8061 (1-11)	9am/81409/DL			VOA
8069 (1-6)	↓			↓

Empirical Laboratories

Empirical Laboratories, LLC
LABORATORY SAMPLE CUSTODY FORM
HOBART REFRIGERATOR

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
7203(16,6,8-10,12,13,15) 7212 (1-3)	430pm/7809/DL			VOA
7213-01 7214 (1-12)	↓			↓
7153 1,6,7,10,14, 2,8,12	1206pm/729/DL			VOA
7158-20	↓			↓
7219-01 7222-01	152pm/730/DL			VOA
7225 (1-12) 7220 (1-3,6)	↓			↓
7219-01 7220 (1-6)	444pm/730/DL			VOA
7222-01 7225 (1-12)	↓			↓
7238 (1,3) 7240 (1-5)	12pm/83/DL			VOA
7246 (1-13) 7249 (1-5)	↓			↓
7246 (1,2-3,7) 7248 (2,4)	3pm/8409/DL			VOA
7253 (1-6) 7255-01				
7256-01 7257-01				
7258-01 7261 (1-2)				
[redacted]	↓			↓
7236 (4,5,7)	11am/8509/JD			DRO
7246 ([redacted] 1237) 7248 (2,4)	12pm/8609/DL			VOA
7253 (1-2) 7258 7236 7257				
7260 (1-[redacted]) 7261 (1-2)				
7262 (1-4) 8002 (1-7) 8003 (1-3)	↓			↓

PREPARATION BENCH SHEET

9H11016

Empirical Laboratories, LLC

Instrument: VOA3

inted: 8/12/2009 10:47:19AM

Matrix: Water

Prepared using: MS - VOC_5030B

Surrogate used: 09G0357

0908002 GC/MS/Daily

Lab Number	Analysis	Prepared	Initial (mL)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
0907255-01	VOC_624	08/10/2009 00:00	5	5				1	[redacted]nc.	TTO
0907260-01	VOC_TCLP_8260B	08/10/2009 00:00	5	5				1	[redacted]l Co	
0907260-02	VOC_624	08/10/2009 00:00	5	5				1	[redacted]l Co	Added for BatchQC in: 9H11016
0907260-02	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]l Co	Added for BatchQC in: 9H11016
0907260-02	VOC_TCLP_8260B	08/10/2009 00:00	5	5				1	[redacted]Co	
0907262-01RE1	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]Inc.	AFCEE FLFLAGS
0907262-02RE1	VOC_624	08/10/2009 00:00	5	5				1	[redacted], Inc.	Added for BatchQC in: 9H11016
0907262-02RE1	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]nc.	MS/MSD. AFCEE FLFLAGS
0907262-02RE1	VOC_TCLP_8260B	08/10/2009 00:00	5	5				1	[redacted]Inc.	Added for BatchQC in: 9H11016
0907262-03	VOC_TCLP_8260B	08/10/2009 00:00	5	5				1	[redacted]nc.	AFCEE FLFLAGS
0907262-04	VOC_624	08/10/2009 00:00	5	5				1	[redacted]nc.	Added for BatchQC in: 9H11016
0907262-04	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]c.	Added for BatchQC in: 9H11016
0907262-04	VOC_TCLP_8260B	08/10/2009 00:00	5	5				1	G[redacted]nc.	AFCEE FLFLAGS
0908002-01	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	MS/MSD. Napthalene only
0908002-02	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908002-03	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908002-04	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908002-05	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908002-06	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908002-07	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	etra Tech NUS, Inc. (T010	Napthalene only
0908003-01	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]	AFCEE FLFLAGS
0908003-02	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	[redacted]	AFCEE FLFLAGS
0908003-03	VOC_8260B_BTEXMI	08/10/2009 00:00	5	5				1	G[redacted]	AFCEE FLFLAGS

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Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

9H11016

Empirical Laboratories, LLC

Instrument: VOA3

Prepared using: MS - VOC_5030B

Printed: 8/12/2009 10:47:19AM

Matrix: Water

Surrogate used: 09G0357

Lab Number	Analysis	Prepared	Initial (mL)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
0908002-02	VOC_624	08/10/2009 00:00	5	5				1	Environmental Services (I	see project notes for compound list
9H11016-BLK1	QC	08/10/2009 00:00	5	5				1		
9H11016-BS1	QC	08/10/2009 00:00	5	5	09H0046		2.5	1		
9H11016-BS2	QC	08/10/2009 00:00	5	5	09H0046		1	1		
9H11016-MS1	QC	08/10/2009 00:00	5	5	09H0046	907262-02RE	2.5	1		
9H11016-MS2	QC	08/10/2009 00:00	5	5	09H0046	0907260-02	2.5	1		
9H11016-MS3	QC	08/10/2009 00:00	5	5	09H0046	0907262-04	2.5	1		
9H11016-MSD1	QC	08/10/2009 00:00	5	5	09H0046	907262-02RE	2.5	1		

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

0908002 C/MS/Volatiles
35

Sequence Name: C:\msdchem\1\sequence\072109V3.s
Comment: EPA8260B/524.2/624
Operator: JH
Data Path: C:\MSDCHEM\1\DATA\072109V3\

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Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

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

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

Line			Sample Name/Misc Info		
1)	Blank	100	PREBLK01	VWATER3	V3BLK;;;;;;
2)	Blank	100	PREBLK02	VWATER3	V3BLK;;;;;;
3)	Blank	100	PREBLK03	VWATER3	V3BLK;;;;;;
4)	Sample	50	V3BFB01	VWATER3	V3BFB 50NG;;;;;; 17:33 7/21/09
5)	Blank	1	PREBLK04	VWATER3	V3BLK;;;;;;
6)	Blank	2	PREBLK05	VWATER3	V3BLK;;;;;;
7)	Calibration	3	V3STD01	VWATER3	V3STD0.25ppb;;;;;;
8)	Calibration	4	V3STD02	VWATER3	V3STD0.5ppb;;;;;;
9)	Calibration	5	V3STD03	VWATER3	V3STD1ppb;;;;;;
10)	Calibration	6	V3STD04	VWATER3	V3STD2ppb;;;;;;
11)	Calibration	7	V3STD05	VWATER3	V3STD10ppb;;;;;;
12)	Calibration	8	V3STD06	VWATER3	V3STD20ppb;;;;;;
13)	Calibration	9	V3STD07	VWATER3	V3STD50ppb;;;;;;
14)	Spike	10	V3ICV01	VWATER3	V3BLK0721LCS;;;;;;
15)	Calibration	11	V3STD08	VWATER3	V3STD100ppb;;;;;;
16)	Calibration	12	V3STD09	VWATER3	V3STD200ppb;;;;;;
17)	Spike	13	V3LCS01	VWATER3	V3BLK0721LCS;;;;;;
18)	Blank	100	BLANK01	VWATER3	V3BLK;;;;;;
19)	Blank	100	BLANK02	VWATER3	V3BLK;;;;;;
20)	Blank	100	V3BLK01	VWATER3	V3BLK0721;;;;;;
21)	Sample	100	V3BFB	V3BFB	V3BFB 50NG;;;;;;

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```
   Sequence Name: C:\msdchem\1\sequence\072109V3.s
         Comment: EPA8260B/524.2/624
        Operator: JH
       Data Path: C:\MSDCHEM\1\DATA\072109V3\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
     (X) Full Method             (X) Inject Anyway
     ( ) Reprocessing Only       ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank         V3BLK;;;;;;
       Vial: 100           ;3;BLANK;;;gm-all.sub;#9G0095
       Method   : VWATER3.M
       Datafile: PREBLK01.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   2   Type: Blank         V3BLK;;;;;;
       Vial: 100           ;3;BLANK;;;gm-all.sub;#9G0095
       Method   : VWATER3.M
       Datafile: PREBLK02.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   3   Type: Blank         V3BLK;;;;;;
       Vial: 100           ;3;BLANK;;;gm-all.sub;#9G0095
       Method   : VWATER3.M
       Datafile: PREBLK03.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   4   Type: Sample        V3BFB 50NG;;;;;;
       Vial: 50            ;3;;;;gm-all.sub;#09G0149
       Method   : VWATER3.M
       Datafile: V3BFB01.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   5   Type: Blank         V3BLK;;;;;;
       Vial: 1             ;3;BLANK;;;gm-all.sub;#09G0095
       Method   : VWATER3.M
       Datafile: PREBLK04.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   6   Type: Blank         V3BLK;;;;;;
       Vial: 2             ;3;BLANK;;;gm-all.sub;#09G0095
       Method   : VWATER3.M
       Datafile: PREBLK05.D
       Bar Code:                        Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   7   Type: Calibration V3STD0.25ppb;;;;;;

   Sequence Last Modified  Tue Jul 21 17:14:26 2009          Page: 1
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```
     Vial: 3            ;1;;;1;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD01.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 8   Type: Calibration V3STD0.5ppb;;;;;;
     Vial: 4            ;1;;;2;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD02.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 9   Type: Calibration V3STD1ppb;;;;;;
     Vial: 5            ;1;;;3;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD03.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
10   Type: Calibration V3STD2ppb;;;;;;
     Vial: 6            ;1;;;4;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD04.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
11   Type: Calibration V3STD10ppb;;;;;;
     Vial: 7            ;1;;;5;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD05.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
12   Type: Calibration V3STD20ppb;;;;;;
     Vial: 8            ;1;;;6;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD06.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
13   Type: Calibration V3STD50ppb;;;;;;
     Vial: 9            ;1;;;7;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD07.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                    Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
14   Type: Spike        V3BLK0721LCS;;;;;;
     Vial: 10           ;3;LCS;;;gm-all.sub;#09G0095,09G0355
     Method  : VWATER3.M
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```
     Datafile: V3ICV01.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 15  Type: Calibration V3STD100ppb;;;;;;
     Vial: 11            ;1;;;8;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD08.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 16  Type: Calibration V3STD200ppb;;;;;;
     Vial: 12            ;1;;;9;gm-all.sub;#09G0095, #09G0354
     Method  : VWATER3.M
     Datafile: V3STD09.D
     LvlId:      UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 17  Type: Spike         V3BLK0721LCS;;;;;;
     Vial: 13            ;3;LCS;;;gm-all.sub;#09G0095,09G0355
     Method  : VWATER3.M
     Datafile: V3LCS01.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 18  Type: Blank         V3BLK;;;;;;
     Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0095
     Method  : VWATER3.M
     Datafile: BLANK01.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 19  Type: Blank         V3BLK;;;;;;
     Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0095
     Method  : VWATER3.M
     Datafile: BLANK02.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 20  Type: Blank         V3BLK0721;;;;;;
     Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0095
     Method  : VWATER3.M
     Datafile: V3BLK01.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 21  Type: Sample        V3BFB 50NG;;;;;;
     Vial: 100           ;3;;;;gm-all.sub;#09G0149
     Method  : V3BFB.M
     Datafile: V3BFB.D
     Bar Code:                          Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method       Lib. Search Rep :per Method
     Quant Report     :per Method       Post-Quant Macro:per Method
     CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
```

Sequence Name: C:\msdchem\1\sequence\081009V3.s
Comment: EPA8260B/524.2/624
Operator: DL
Data Path: C:\MSDCHEM\1\DATA\081009V3\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

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Tue 2 8260

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

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

Line		Sample Name/Misc Info			
1)	Blank	100	PREBLK01	VWATER3	V3PREBLK;;;;;;
2)	Sample	50	V3BFB01	V3BFB	V3BFB 25NG;;;;;;
3)	DailyCal	1	V3CCV01	VWATER3	V3STD100ppb;;;;;;
4)	Spike	2	V3LCS01	VWATER3	V3BLK0810LCS;;;;;;
5)	Blank	3	V3RL01	VWATER3	V3RLSTD1.0ppb;;;;;;
6)	Blank	100	BLANK01	VWATER3	V3BLK;;;;;;
7)	Blank	100	V3BLK01	VWATER3	V3BLK0810;;;;;;
8)	Sample	·4	0725306	VWATER3	0907253-06;;;;;; tb/vial1
9)	Sample	·5	0726102	VWATER3	0907261-02;;;;;; tb/vial2
10)	Sample	·6	0725302	VWATER3	0907253-02;;;;;; vial2
11)	Sample	·7	0725303	VWATER3	0907253-03;;;;;; vial2
12)	Sample	·8	0725304	VWATER3	0907253-04;;;;;; vial2
13)	Sample	·9	0725305	VWATER3	0907253-05;;;;;; vial2
14)	Sample	·10	0726101	VWATER3	0907261-01;;;;;; vial2
15)	Sample	·11	0725701	VWATER3	0907257-01;;;;;; vial2
16)	Sample	12	0803701	VWATER3	0908037-01;;;;;; vial2
17)	Sample	13	0803702	VWATER3	0908037-02;;;;;; vial2
18)	Sample	14	0803703	VWATER3	0908037-03;;;;;; vial2
19)	Sample	15	0803704	VWATER3	0908037-04;;;;;; vial2
20)	Sample	-·16	0724802D	VWATER3	0907248-02;;;;;; vial2 200x
21)	Sample	·17	0724804D	VWATER3	0907248-04;;;;;; vial2 10x
22)	Sample	18	0725301D	VWATER3	0907253-01;;;;;; vial2 25x
23)	Sample	·19	0725601D	VWATER3	0907256-01;;;;;; vial2 10x
24)	Sample	·20	0725801D	VWATER3	0907258-01;;;;;; vial2 5x
25)	Sample	-·21	0710635	VWATER3	0907106-35;;;;;; vial2 5x
26)	Sample	-·22	0710636	VWATER3	0907106-36;;;;;; vial2 5x
27)	Spike	23	V3LCSD01	VWATER3	V3BLK0810LCSD;;;;;;
28)	Sample	50	V3BFB01E	V3BFB	V3BFB 25NG;;;;;;
29)	DailyCal	24	V3CCV01E	VWATER3	V3STD100ppb;;;;;;
30)	Spike	25	V3LCS01E	VWATER3	V3BLK0810ELCS;;;;;;
31)	Spike	26	V3LS624E	VWATER3	V3BLK0810ELCS;;;;;; 20ppb
32)	Blank	27	V3RL01E	VWATER3	V3RLSTD1.0ppb;;;;;;
33)	Blank	100	BLANK01E	VWATER3	V3BLK;;;;;;
34)	Blank	100	V3BLK01E	VWATER3	V3BLK0810E;;;;;;
35)	Sample	·28	0726201	VWATER3	0907262-01;;;;;; tb/vial2
36)	Sample	29	0800206	VWATER3	0908002-06;;;;;; tb/vial2
37)	Sample	30	0800207	VWATER3	0908002-07;;;;;; tb/vial2
38)	Sample	31	0800301	VWATER3	0908003-01;;;;;; tb/vial2
39)	Sample	32	0800201	VWATER3	0908002-01;;;;;; vial2
40)	Sample	·33	0726202	VWATER3	0907262-02;;;;;; vial2
41)	Sample	34	0800202	VWATER3	0908002-02;;;;;; vial2
42)	Sample	35	0800203	VWATER3	0908002-03;;;;;; vial2
43)	Sample	36	0800204	VWATER3	0908002-04;;;;;; vial2

Sequence Name: C:\msdchem\1\sequence\081009V3.s

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	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	37	0800205	VWATER3	0908002-05;;;;;; vial2
45)	Sample	38	0800302	VWATER3	0908003-02;;;;;; vial2
46)	Sample	39	0800303	VWATER3	0908003-03;;;;;; vial2
47)	Sample	40	0725501	VWATER3	0907255-01;;;;;; vial2624
48)	Sample	•41	0800802	VWATER3	0908008-02;;;;;; vial1624
49)	Sample	42	0726203T	VWATER3	0907262-03;;;;;; tclp10x
50)	Sample	43	0726204T	VWATER3	0907262-04;;;;;; tclp10x
51)	Sample	44	0726001T	VWATER3	0907260-01;;;;;; tclp10x
52)	Sample	45	0726002T	VWATER3	0907260-02;;;;;; tclp10x
53)	Sample	46	0726202M	VWATER3	0907262-02;;;;;; vial2MS
54)	Sample	47	0726202S	VWATER3	0907262-02;;;;;; vial2MSD
55)	Sample	48	0726002M	VWATER3	0907260-02;;;;;; tclp10xMS
56)	Sample	49	0726204M	VWATER3	0907262-04;;;;;; tclp10xMS
57)	Sample	100	V3BFB	V3BFB	V3BFB 25NG;;;;;;

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```
   Sequence Name:  C:\msdchem\1\sequence\081009V3.s
         Comment:  EPA8260B/524.2/624
        Operator:  DL
       Data Path:  C:\MSDCHEM\1\DATA\081009V3\
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Instrument Control  Post-Seq Cmd:
Data Analysis       Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank         V3PREBLK;;;;;;
       Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0357
       Method   : VWATER3.M
       Datafile: PREBLK01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   2   Type: Sample        V3BFB 25NG;;;;;;
       Vial: 50            ;3;;;;gm-all.sub;#09G0149
       Method   : V3BFB.M
       Datafile: V3BFB01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   3   Type: DailyCal      V3STD100ppb;;;;;;
       Vial: 1             ;2;;;;gm-all.sub;#09G0357, #09H0045
       Method   : VWATER3.M
       Datafile: V3CCV01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   4   Type: Spike         V3BLK0810LCS;;;;;;
       Vial: 2             ;3;LCS;;;gm-all.sub;#09G0357,09H0046
       Method   : VWATER3.M
       Datafile: V3LCS01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   5   Type: Blank         V3RLSTD1.0ppb;;;;;;
       Vial: 3             ;0;;;;gm-all.sub;#09G0357,09H0045
       Method   : VWATER3.M
       Datafile: V3RL01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   6   Type: Blank         V3BLK;;;;;;
       Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0357
       Method   : VWATER3.M
       Datafile: BLANK01.D
       Bar Code:                      Samp Amt: 0          Multiplr: 1
       Area% Report     :per Method        Lib. Search Rep :per Method
       Quant Report     :per Method        Post-Quant Macro:per Method
       CR Database      :per Method        CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   7   Type: Blank         V3BLK0810;;;;;;
```

```
    Vial: 100            ;3;BLANK;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: V3BLK01.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
8   Type: Sample        0907253-06;;;;;; tb/vial1
    Vial: 4             tet.v07253;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0725306.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
9   Type: Sample        0907261-02;;;;;; tb/vial2
    Vial: 5             nas.v07261;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0726102.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
10  Type: Sample        0907253-02;;;;;; vial2
    Vial: 6             tet.v07253;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0725302.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
11  Type: Sample        0907253-03;;;;;; vial2
    Vial: 7             tet.v07253;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0725303.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
12  Type: Sample        0907253-04;;;;;; vial2
    Vial: 8             tet.v07253;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0725304.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
13  Type: Sample        0907253-05;;;;;; vial2
    Vial: 9             tet.v07253;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0725305.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
14  Type: Sample        0907261-01;;;;;; vial2
    Vial: 10            nas.v07261;0;;;;gm-all.sub;#09G0357
    Method  : VWATER3.M
    Datafile: 0726101.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
15  Type: Sample        0907257-01;;;;;; vial2
```

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```
    Vial: 11            gri.v07257;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0725701.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
16  Type: Sample        0908037-01;;;;;; vial2
    Vial: 12            gri.v08037;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0803701.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
17  Type: Sample        0908037-02;;;;;; vial2
    Vial: 13            gri.v08037;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0803702.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
18  Type: Sample        0908037-03;;;;;; vial2
    Vial: 14            gri.v08037;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0803703.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
19  Type: Sample        0908037-04;;;;;; vial2
    Vial: 15            gri.v08037;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0803704.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
20  Type: Sample        0907248-02;;;;;; vial2 200x
    Vial: 16            tet.v07248;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0724802D.D
    Bar Code:                          Samp Amt: 0          Multiplr: 200
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
21  Type: Sample        0907248-04;;;;;; vial2 10x
    Vial: 17            tet.v07248;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0724804D.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
22  Type: Sample        0907253-01;;;;;; vial2 25x
    Vial: 18            tet.v07253;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0725301D.D
    Bar Code:                          Samp Amt: 0          Multiplr: 25
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
23  Type: Sample        0907256-01;;;;;; vial2 10x
```

```
    Vial: 19            gri.v07256;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0725601D.D
    Bar Code:                          Samp Amt: 0          Multiplr: 10
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
24  Type: Sample        0907258-01;;;;;; vial2 5x
    Vial: 20            gri.v07258;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0725801D.D
    Bar Code:                          Samp Amt: 0          Multiplr: 5
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
25  Type: Sample        0907106-35;;;;;; vial2 5x
    Vial: 21            ch2.v07106;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0710635.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
26  Type: Sample        0907106-36;;;;;; vial2 5x
    Vial: 22            ch2.v07106;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0710636.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
27  Type: Spike         V3BLK0810LCSD;;;;;;
    Vial: 23            ;3;LCS;;;gm-all.sub;#09G0357,09H0046
    Method   : VWATER3.M
    Datafile: V3LCSD01.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
28  Type: Sample        V3BFB 25NG;;;;;;
    Vial: 50            ;3;;;;gm-all.sub;#09G0149
    Method   : V3BFB.M
    Datafile: V3BFB01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
29  Type: DailyCal      V3STD100ppb;;;;;;
    Vial: 24            ;2;;;;gm-all.sub;#09G0357, #09H0045
    Method   : VWATER3.M
    Datafile: V3CCV01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
30  Type: Spike         V3BLK0810ELCS;;;;;;
    Vial: 25            ;3;LCS;;;gm-all.sub;#09G0357,09H0046
    Method   : VWATER3.M
    Datafile: V3LCS01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report      :per Method        Lib. Search Rep :per Method
    Quant Report      :per Method        Post-Quant Macro:per Method
    CR Database       :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
31  Type: Spike         V3BLK0810ELCS;;;;;; 20ppb
```

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```
    Vial: 26            ;3;LCS;;;gm-all.sub;#09G0357,09H0046
    Method   : VWATER3.M
    Datafile: V3LS624E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
32  Type: Blank         V3RLSTD1.0ppb;;;;;;
    Vial: 27            ;0;;;;gm-all.sub;#09G0357,09H0045
    Method   : VWATER3.M
    Datafile: V3RL01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
33  Type: Blank         V3BLK;;;;;;
    Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: BLANK01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
34  Type: Blank         V3BLK0810E;;;;;;
    Vial: 100           ;3;BLANK;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: V3BLK01E.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
35  Type: Sample        0907262-01;;;;;; tb/vial2
    Vial: 28            ch2.v07262;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726201.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
36  Type: Sample        0908002-06;;;;;; tb/vial2
    Vial: 29            tet.v08002;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0800206.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
37  Type: Sample        0908002-07;;;;;; tb/vial2
    Vial: 30            tet.v08002;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0800207.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
38  Type: Sample        0908003-01;;;;;; tb/vial2
    Vial: 31            ch2.v08003;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0800301.D
    Bar Code:                          Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-------------------------------------------------------------------------
39  Type: Sample        0908002-01;;;;;; vial2
```

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```
     Vial: 32            tet.v08002;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800201.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
40   Type: Sample        0907262-02;;;;;; vial2
     Vial: 33            ch2.v07262;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0726202.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
41   Type: Sample        0908002-02;;;;;; vial2
     Vial: 34            tet.v08002;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800202.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
42   Type: Sample        0908002-03;;;;;; vial2
     Vial: 35            tet.v08002;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800203.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
43   Type: Sample        0908002-04;;;;;; vial2
     Vial: 36            tet.v08002;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800204.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
44   Type: Sample        0908002-05;;;;;; vial2
     Vial: 37            tet.v08002;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800205.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
45   Type: Sample        0908003-02;;;;;; vial2
     Vial: 38            ch2.v08003;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800302.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
46   Type: Sample        0908003-03;;;;;; vial2
     Vial: 39            ch2.v08003;0;;;;gm-all.sub;#09G0357
     Method   : VWATER3.M
     Datafile: 0800303.D
     Bar Code:                        Samp Amt: 0          Multiplr: 1
     Area% Report     :per Method        Lib. Search Rep :per Method
     Quant Report     :per Method        Post-Quant Macro:per Method
     CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
47   Type: Sample        0907255-01;;;;;; vial2624
```

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    Vial: 40            par.v07255;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0725501.D
    Bar Code:                        Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
48  Type: Sample        0908008-02;;;;;; vial1624
    Vial: 41            isp.v08008;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0800802.D
    Bar Code:                        Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
49  Type: Sample        0907262-03;;;;;; tclp10x
    Vial: 42            ch2.v07262;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726203T.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
50  Type: Sample        0907262-04;;;;;; tclp10x
    Vial: 43            ch2.v07262;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726204T.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
51  Type: Sample        0907260-01;;;;;; tclp10x
    Vial: 44            sai.v07260;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726001T.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
52  Type: Sample        0907260-02;;;;;; tclp10x
    Vial: 45            sai.v07260;0;;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726002T.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
53  Type: Sample        0907262-02;;;;;; vial2MS
    Vial: 46            ch2.v07262;3;MS;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726202M.D
    Bar Code:                        Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
54  Type: Sample        0907262-02;;;;;; vial2MSD
    Vial: 47            ch2.v07262;3;MSD;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: 0726202S.D
    Bar Code:                        Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
55  Type: Sample        0907260-02;;;;;; tclp10xMS
```

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    Vial: 48            sai.v07260;3;MS;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: O726002M.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
56  Type: Sample        0907262-04;;;;;; tclp10xMS
    Vial: 49            ch2.v07262;3;MS;;;gm-all.sub;#09G0357
    Method   : VWATER3.M
    Datafile: O726204M.D
    Bar Code:                        Samp Amt: 0          Multiplr: 10
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
57  Type: Sample        V3BFB 25NG;;;;;;
    Vial: 100           ;3;;;;gm-all.sub;#09G0149
    Method   : V3BFB.M
    Datafile: V3BFB.D
    Bar Code:                        Samp Amt: 0          Multiplr: 1
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-------------------------------------------------------------------------
```