DEPARTMENT OF THE NAVY
COMMANDER
NAVY REGION HAWAII
850 TICONDEROGA ST STE 110
JBPHH, HAWAII 96860-5101

RECEIVED OCT 29 2015

5090
Ser N45/819
October 20, 2015

CERTIFIED NO: 7014 1200 0000 9858 8425

Ms. Joanna Seto, Chief
Hawaii State Department of Health
Environmental Management Division
Safe Drinking Water Branch
919 Ala Moana Boulevard, Room 308
Honolulu, HI 96814

Dear Ms. Seto:

SUBJECT: DRINKING WATER MONITORING RESULTS FOR RED HILL, JOINT BASE PEARL HARBOR-HICKAM WATER SYSTEM (PWS NO. 360)

Enclosed are results for drinking water samples taken at the Red Hill Shaft as required by the Transition Plan for Tank 5 Red Hill Release. The table below summarizes the laboratory results that are enclosed.

Lab Report Number	Sample Location(s)	Sample Date	Laboratory Methods
349268	360-011, TAP OUTSIDE CL2 BLDG	9/15/15	524.2, 525.2, 200.8
349269	360-011, TAP OUTSIDE CL2 BLDG	9/15/15	8015

There were no contaminants detected in these samples. Should you have any questions regarding this matter, please contact Ms. Arleen Mizuno at 471-1171, extension 203.

Sincerely,

AARON Y. POENTIS
Director
Regional Environmental Department
By direction of
Commander

Enclosure: 1. NAVFAC Hawaii Laboratory Lab Numbers 15-07970, 15-07971 (43 pages)

5090
Ser N45/819
October 20, 2015

Copy to: Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section (Hard copy and CD enclosures)
LCDR Andrew Lovgren, NAVSUP Fleet Logistics Center Pearl Harbor Director, Fuel and Facility Management (CD enclosures)
Mr. Rockne Krill, DLA Energy Pacific (CD enclosures)

MEMORANDUM

14 Oct 15

Packet No: 15-079701014

From: NAVFAC HAWAII, Environmental Services Laboratory, PRP411

To: Randy Kawamura NAVFACHI OPHP61

Copy To: Arleen Mizuno NAVFAC HI

Subj: ☐ LABORATORY REPORTS
☐ MISCELLANEOUS CHARGES AND/OR CHAIN(S) OF CUSTODY SHEETS

Encl: Lab Number(s) 15-07970 , 15-07971

1. Thank you for using our laboratory to provide you with quality test results and/or services.

2. Please take a few minutes and check over the enclosures. If you believe anything is missing or in need of correction, let us know immediately and we will send you a correction as soon as possible.

3. Our goal is to better serve all our customers and we are concerned that you are receiving our services in the most efficient and timely manner possible. Please acknowledge receipt by signing below and returning this memo so we will know that you have received the enclosures. Also feel free to include any comments you have concerning our services. You may return this memo to us through the guardmail (NAVFAC HI PRP411) or fax it to 471-4534.

4. After the laboratory reports are archived, additional copies are available with an archival fee of $72.00/hr. If you have any questions, please contact us at 474-3704 or at the above fax number.

5. ~~Laboratory certifies that the results meet all A2LA requirements unless noted in the "remarks" section of the report.~~ 10/14/15

Duane Morita, Acting Laboratory Manager

TOTAL NO. OF PAGES: 43

To: NAVFAC HI PRP4

☐ Receipt acknowledged. Enclosures appear complete and acceptable.

☐ Comments/discrepancies noted.

☐ Please fax corrections/amendments to Fax#: _____
or guardmail to: _____

Customer's Signature/Date:

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary Ab)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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LABORATORY REPORT

Client: NAVFAC Hawaii
Duane Morita
Environmental Lab, Code PRJ411
Building 1423, Central Avenue
JBPHH, HI 96860

Report: 349269

Priority: Rush Verbal

Status: Final

PWS #: HI0000360

Project/Site: 15-07970, JBPHH Red Hill 356-011 TP001

Samples Submitted: One drinking water sample

Copies to: None

Collected: 09/15/15 By: Client Received: 09/18/15

REPORT SUMMARY

One drinking water sample was submitted for RD100 analysis.

Detailed quantitative results are presented on the following page.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call at (574) 233-4777.

Note: The results presented relate only to the samples provided for analysis.

Note: This report may not be reproduced, except in full, without written approval from Eurofins Eaton Analytical, Inc. Eurofins Eaton Analytical, Inc. is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Reviewed By	Title	09/28/2015 Date
Finalized By	Title	09/30/2015 Date

eurofins

Eaton Analytical

Sample Analysis Report

Client: NAVFAC Hawaii
Contact: Duane Morita
Environmental Lab Code PRJ411
Building 1423
Central Ave.
JBPHH, Hawaii 96860
Voice: (808)-474-0768

Order No.: 282628
Receipt Batch No.: 349269

Analytical Method Summary:

Headspace analysis GC/FID – The sample was analyzed as received. 15 mL sample was pipetted into a 20 mL headspace vial containing 4 grams of sodium chloride. 10 µL of 5.5% isopropyl alcohol was added to the sample. Isopropyl alcohol was used as an internal standard. The sample was capped and heated to 75 °C for 30 minutes. The headspace was then sampled and analyzed using a modified EPA Method 8015B, a headspace GC/FID technique. The calibration concentration range was 0.05-10 mg/L. A quadratic calibration was used with a correlation coefficient (r^2) of 0.99. The minimum reporting level (MRL) was 0.1 mg/L.

For quantitation of JP-8 Fuel, the analysis included a set of initial calibration standards, an initial continuing calibration check (CCC) at 0.1 mg/L, a laboratory method blank (LMB), a matrix spike (MS) at 1.0 mg/L, and a closing CCC at 1.0 mg/L at the end of the run.

LAB SAMPLE ID: 3324676 **SAMPLE SITE:** 15-07970 RedHill 356-011

Analyte	MRL (mg/L)	Sample Result (mg/L)	LMB Result (mg/L)	MS Recovery (%)	Initial CCC Recovery (%)	Closing CCC Recovery (%)
JP-8 Fuel	0.1	< 0.1	< 0.1	96	86	115

Bill Davis 09-25-2015
Analyst signature Date

Reviewer signature 09/25/2015
Reviewer signature Date

eurofins

Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 282628
Batch # 347821

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 2 of 2

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
NAVFAC Hawaii		HI0000360	HI		

BILL TO:	COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
NAVFAC Hawaii					GW

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	282628	09/15/15	0835	x		15-07970, JBPHH Red Hill 356-011 TP001	TPH as Diesel (JP-8) (8015)		X		3	DW	RV
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

PUSH VERBAL

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	9/16/15	1400 AM PM	Fedex 8564 1152 7003		AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	KDave 9-18-15		0830 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-HAZARDOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced Wet Blue ___ Ambient ___ 4.8 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days)	0%	IV* = Immediate Verbal (3 working days)	150%
RV* = Rush Verbal (5 working days)	50%	IW* = Immediate Written (3 working days)	125%
RW* = Rush Written (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call expedited service not available for all testing

Samples received unpreserved with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, PRP411, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JON: 114742202015	ESM:	POC: Randy Kawamura	PH#: 473-3160	FAX#: 473-1545
Report To: Randy Kawamura		Copy To: Arleen Mizuno	Copy To:	
NAVFAC HI OPBP6		NAVFAC HI EV1		
randy.kawamura@navy.mil		arleen.mizuno@navy.mil		

Sample ID	Sample Description	Matrix Code	Sampling Date	Sampling Time	Container Vol	Container Type	Analysis Required	Preservative Req. (Type/ml)	FOR LAB USE ONLY pH	Lab Number	FAL	Cont.	Cond. A	Cond. I
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the CI2 Bldg	DW	9/15/2015	0835	3x40mL	Glass	Volatiles (524.2)*	Ascorbic Acid		15-07178	1-3	C	✓	
					2x1L	Glass	Semi-Volatiles (525.2)*	Sulfate, HCl			4-5	C	✓	
					3x40mL	Glass	TPH as Diesel (JP-8) (B015)*				6-8	C	✓	
Trip Blank					125mL	Plastic	Lead (200.8)	HNO3, pH<2			9	C	✓	
					2x40mL	Glass	Volatile	Ascorbic Acid		15-07971	1-2	C	✓	

Sampling Information	Transportation Information		Unused Sample Disposition	Sample Condition
Location Sampled: Red Hill	Transported/Stored in: Cooler with ice	Cooler Temp: 3.9 °C	[ ] Return to customer	[✓] Received with CoC
Sampler(s): (Print names clearly) K. Miyaki	Air bill/Carrier ID#: —		[X] Dispose at 60 Days	[ ] Received with Custody Seals
			[ ] Archive for ____ Days	[ ] Seals Required [ ] Seals Intact
			[ ] Contact before disposal	[✓] Labels and CoC agree

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used
Laboratory must certified by the Hawaii State DOH Drinking Water Program.
*See attached for list of analytes.

Relinquished By: (Print clearly & Sign)	Date	Time	Received By: (Print clearly & Sign)	Date	Time
K. Miyaki:	9/15/15	1325		9/15/15	1325

VOCs tested (EPA Method 524.2)
Benzene
Carbon tetrachloride
Chlorobenzene
1,2-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
Dichloromethane
1,2-Dichloropropane
Ethylbenzene
Napththalene (unregulated)
Styrene
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl chloride
Xylenes, Total

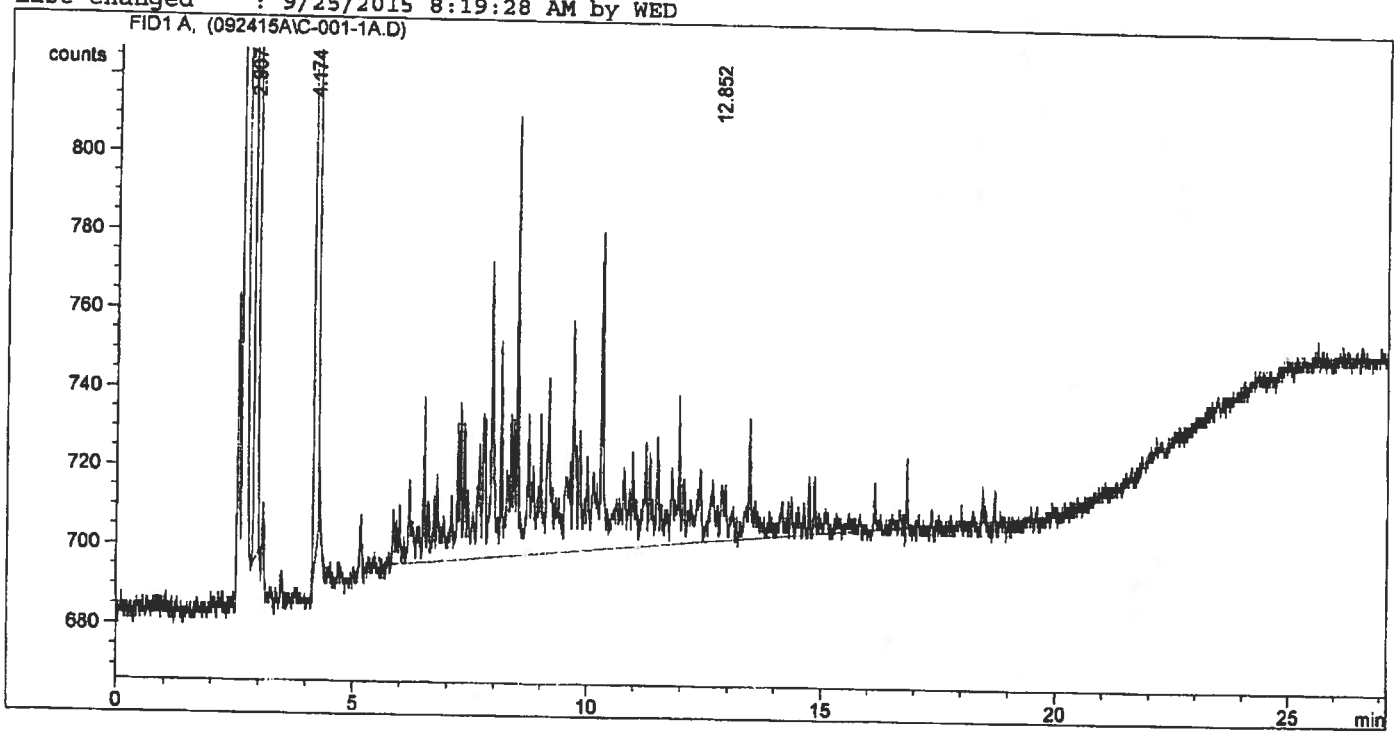
SVOCs tested (EPA Method 525.2)
Benzo(a)pyrene
Di(2-ethylhexyl)adipate
Di(2-ethylhexyl)phthalate
Acenaphthene (unregulated)
Acenaphthylene (unregulated)
Anthracene (unregulated)
Phenanthrene (unregulated)
Fluoranthene (unregulated)
Pyrene (unregulated)

Data File C:\HPCHEM\1\DATA\092415A\C-001-1A.D

Sample Name: CCL-0.1-1A

CCC @ 0.1 ppm JP-8 Fuel

```
==========================================================================
Injection Date  : 9/24/2015 2:43:47 PM          Seq. Line :  11
Sample Name     : CCL-0.1-1A                    Location : Vial 11
Acq. Operator   : WED                              Inj :  1
Acq. Instrument : Instrument 1                  Inj Volume : Manually
Acq. Method     : C:\HPCHEM\1\METHODS\JETFUEL.M
Last changed    : 6/23/2015 4:09:53 PM by WED
Analysis Method : C:\HPCHEM\1\METHODS\CALJFIS.M
Last changed    : 9/25/2015 8:19:28 AM by WED
```




```
==========================================================================
                        Internal Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/25/2015 8:18:48 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount    Name
  #      [mg/L]
----|-------------|-------------------------
  1      1.00000   IS-Isopropyl alcohol


Signal 1: FID1 A,

RetTime  Type      Area      Amt/Area     Amount    Grp   Name
 [min]           counts*s     ratio       [mg/L]
-------|------|----------|----------|----------|--|------------------
  2.907 PB   +I 1.15038e4     1.00000     1.00000     IS-Isopropyl alcohol
  4.174 PB     1.62105e4  7.02240e-1 9.89555e-1     1-Butanol
 12.852 PPA+   6027.71387 1.64160e-1 8.60158e-2     JP-8 Fuel

Totals without ISTD(s) :                 1.07557

 Results obtained with enhanced integrator!
```

Target 0.1
06R 86
BD
09.25.2015

Instrument 1 9/25/2015 8:24:33 AM WED

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

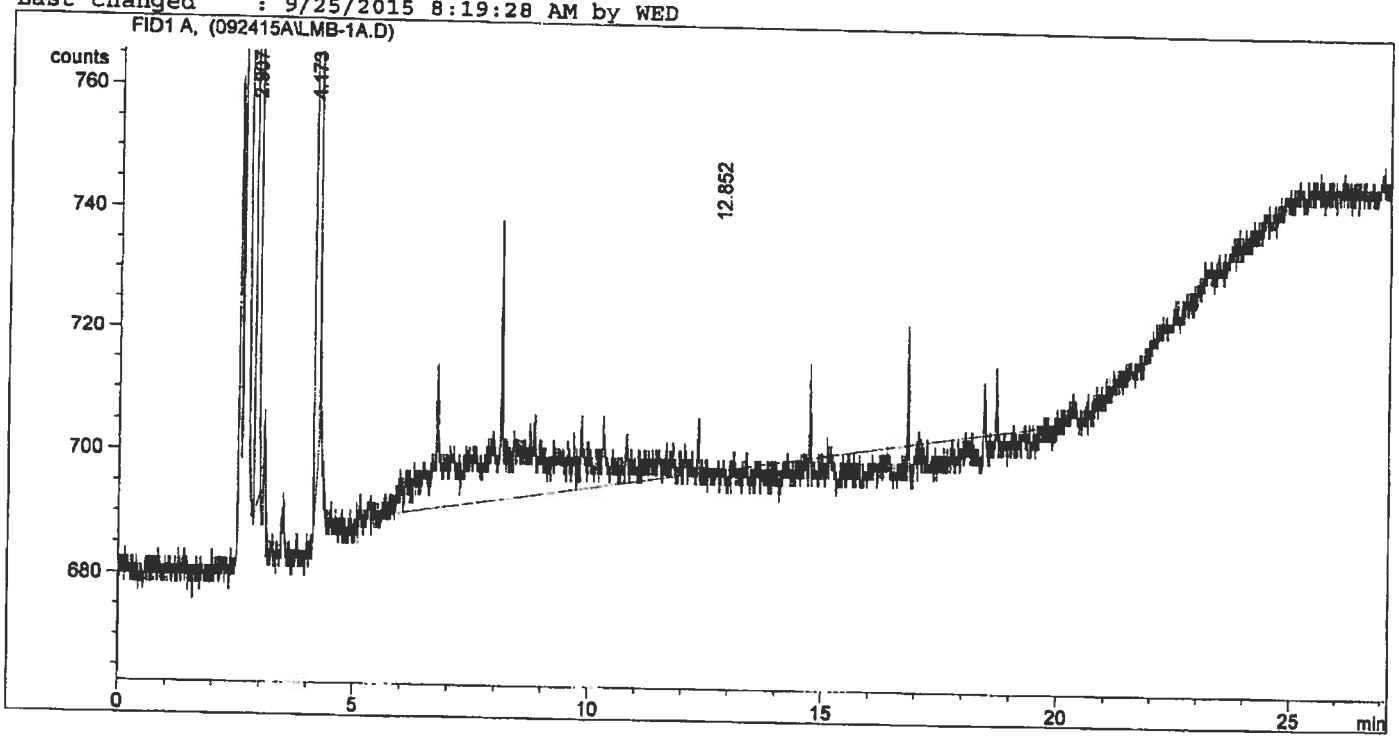
*** End of Report ***

Data File C:\HPCHEM\1\DATA\092415A\LMB-1A.D

Sample Name: LMB-1A

Laboratory Method Blank

```
================================================================================
Injection Date   : 9/24/2015 3:18:54 PM          Seq. Line :  12
Sample Name      : LMB-1A                        Location : Vial 12
Acq. Operator    : WED                              Inj :   1
Acq. Instrument  : Instrument 1                  Inj Volume : Manually
Acq. Method      : C:\HPCHEM\1\METHODS\JETFUEL.M
Last changed     : 6/23/2015 4:09:53 PM by WED
Analysis Method  : C:\HPCHEM\1\METHODS\CALJFIS.M
Last changed     : 9/25/2015 8:19:28 AM by WED
```




```
================================================================================
                        Internal Standard Report
================================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/25/2015 8:18:48 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount    Name
  #      [mg/L]
----|-------------|-------------------------
  1      1.00000   IS-Isopropyl alcohol


Signal 1: FID1 A,

RetTime  Type      Area      Amt/Area     Amount    Grp   Name
 [min]           counts*s     ratio       [mg/L]
-------|------|----------|----------|----------|--|------------------
  2.907 PB  +I 1.12885e4     1.00000    1.00000     IS-Isopropyl alcohol
  4.173 PB     1.58859e4  7.02240e-1 9.88237e-1     1-Butanol
 12.852 PPA+   1049.50378 1.94643e-2 1.80962e-3     JP-8 Fuel

Totals without ISTD(s) :              9.90047e-1

 Results obtained with enhanced integrator!
```

< MRL 0.1

BD
09-25-2015

Instrument 1 9/25/2015 8:27:13 AM WED

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

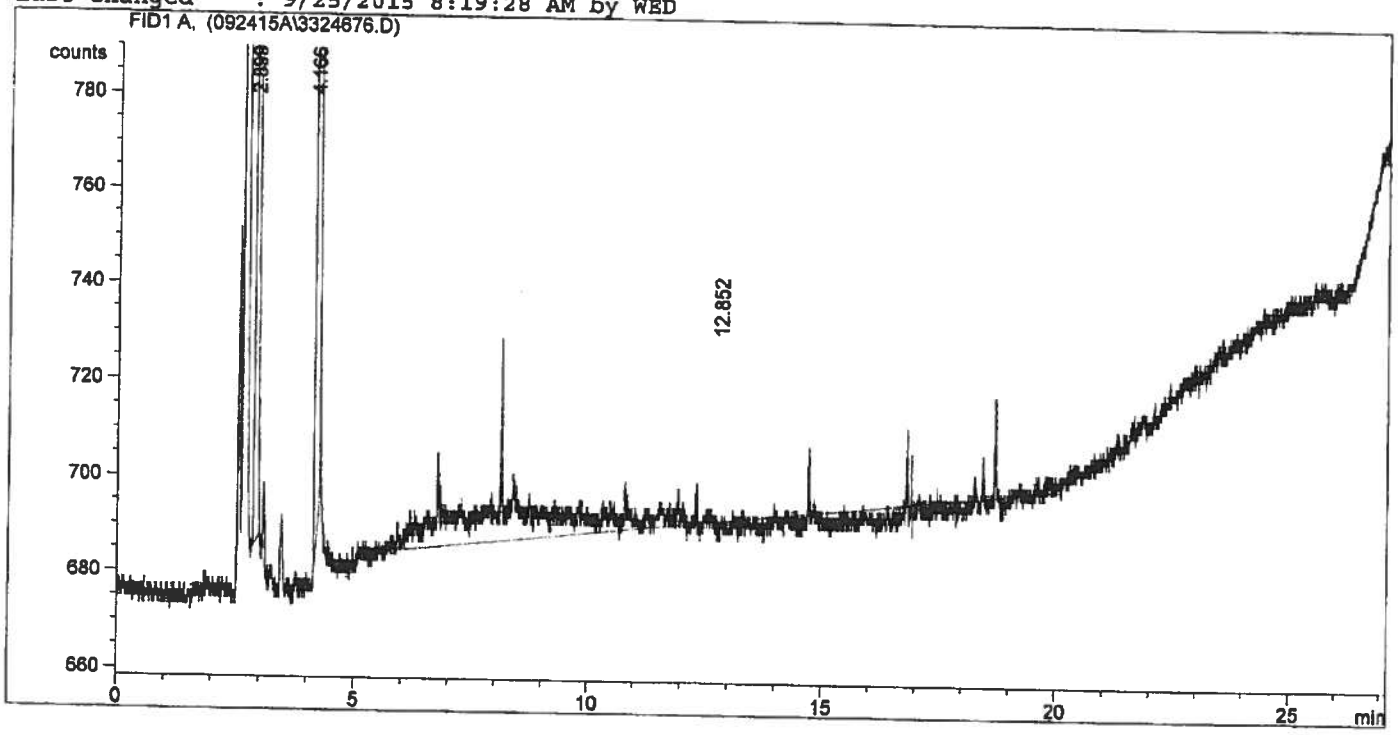
*** End of Report ***

Data File C:\HPCHEM\1\DATA\092415A\3324676.D

Sample Name: 3324676

3324676 Field Sample

```
================================================================================
Injection Date  : 9/24/2015 3:54:05 PM          Seq. Line :  13
Sample Name     : 3324676                       Location : Vial 13
Acq. Operator   : WED                               Inj :  1
Acq. Instrument : Instrument 1                  Inj Volume : Manually
Acq. Method     : C:\HPCHEM\1\METHODS\JETFUEL.M
Last changed    : 6/23/2015 4:09:53 PM by WED
Analysis Method : C:\HPCHEM\1\METHODS\CALJFIS.M
Last changed    : 9/25/2015 8:19:28 AM by WED
```




```
================================================================================
                        Internal Standard Report
================================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/25/2015 8:18:48 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount    Name
  #      [mg/L]
----|-------------|------------------------
  1      1.00000   IS-Isopropyl alcohol


Signal 1: FID1 A,

RetTime  Type      Area      Amt/Area     Amount    Grp   Name
 [min]           counts*s     ratio       [mg/L]
-------|------|----------|----------|----------|--|------------------
  2.899 PB   +I 1.10301e4     1.00000    1.00000     IS-Isopropyl alcohol
  4.166 PB     1.55210e4  7.02240e-1 9.88154e-1     1-Butanol
 12.852 PPA+   1300.14746 5.66814e-2 6.68116e-3     JP-8 Fuel

Totals without ISTD(s) :              9.94836e-1

 Results obtained with enhanced integrator!
```

< MRL 0.1

BD
09-25-2015

Instrument 1 9/25/2015 8:24:10 AM WED

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

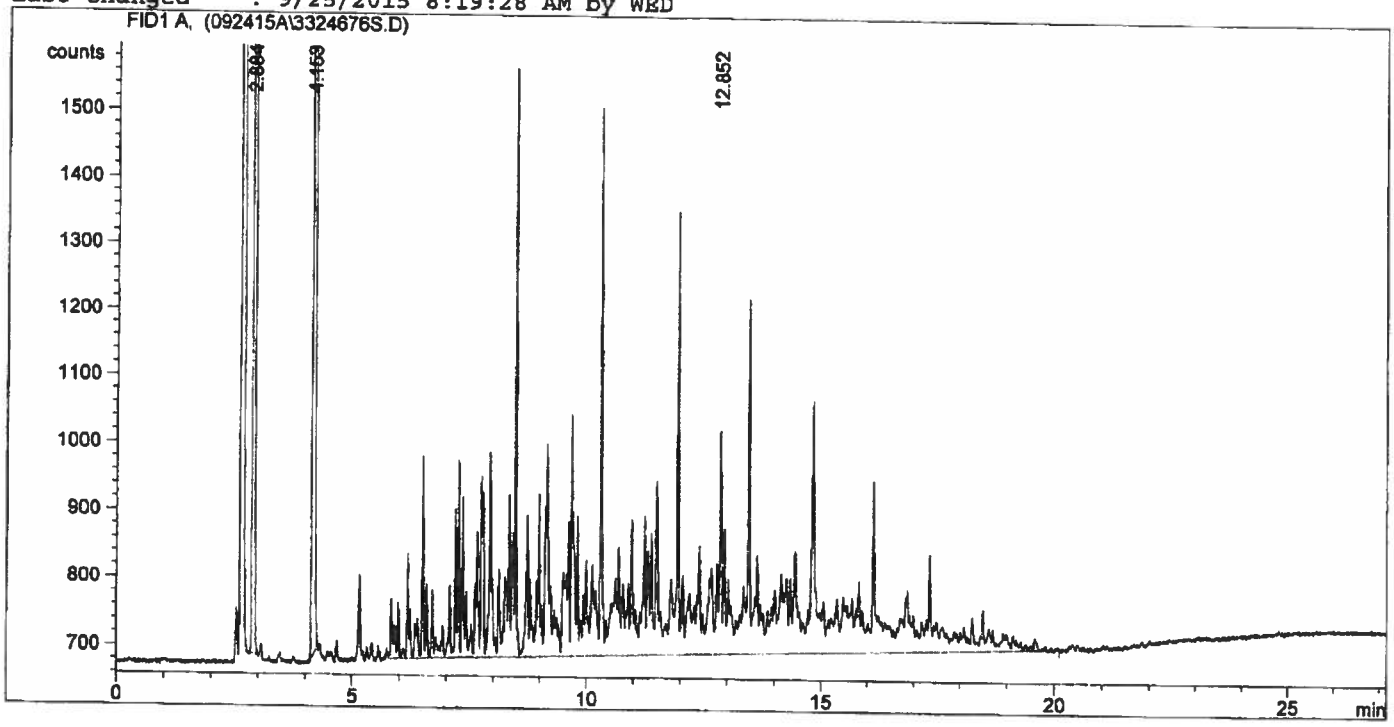
*** End of Report ***

Data File C:\HPCHEM\1\DATA\092415A\3324676S.D

Sample Name: 3324676MS

3324676 Field Sample Matrix Spike @ 1 ppm

```
Injection Date  : 9/24/2015 4:29:15 PM          Seq. Line :  14
Sample Name     : 3324676MS                     Location : Vial 14
Acq. Operator   : WED                              Inj :   1
Acq. Instrument : Instrument 1                  Inj Volume : Manually
Acq. Method     : C:\HPCHEM\1\METHODS\JETFUEL.M
Last changed    : 6/23/2015 4:09:53 PM by WED
Analysis Method : C:\HPCHEM\1\METHODS\CALJFIS.M
Last changed    : 9/25/2015 8:19:28 AM by WED
```



Internal Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      9/25/2015 8:18:48 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
```

ISTD #	ISTD Amount [mg/L]	Name
1	1.00000	IS-Isopropyl alcohol

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area ratio	Amount [mg/L]	Grp	Name
2.884	PB +I	1.07647e4	1.00000	1.00000		IS-Isopropyl alcohol
4.153	PB	1.50403e4	7.02240e-1	9.81161e-1		1-Butanol
12.852	PPA+	5.43372e4	1.89329e-1	9.55682e-1		JP-8 Fuel

Totals without ISTD(s) : 1.93684

Results obtained with enhanced integrator!

Target
1
%R = 96
BD
09-25-2015

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

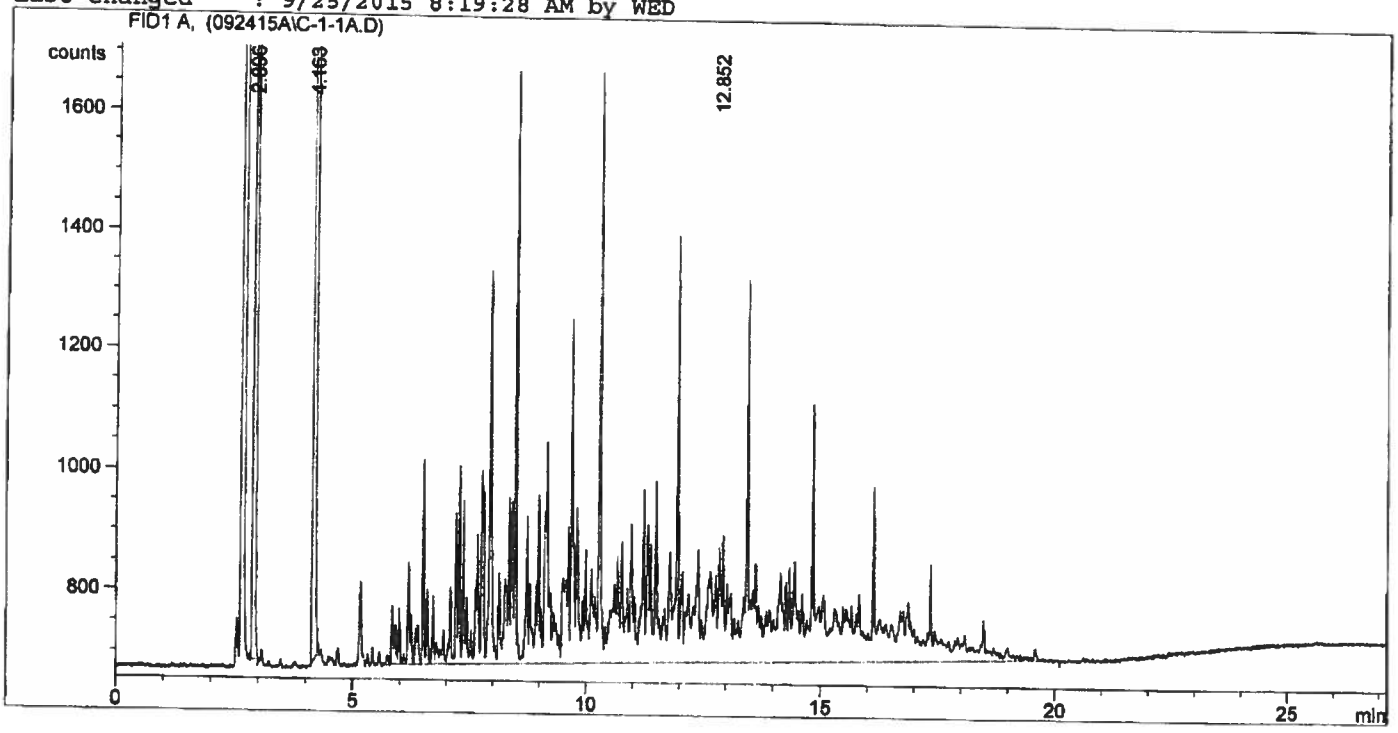
*** End of Report ***

Data File C:\HPCHEM\1\DATA\092415A\C-1-1A.D

Sample Name: CCC-1-1A

CCC @ 1 ppm

```
Injection Date  : 9/24/2015 5:04:30 PM          Seq. Line :  15
Sample Name     : CCC-1-1A                      Location : Vial 15
Acq. Operator   : WED                              Inj :   1
Acq. Instrument : Instrument 1                  Inj Volume : Manually
Acq. Method     : C:\HPCHEM\1\METHODS\JETFUEL.M
Last changed    : 6/23/2015 4:09:53 PM by WED
Analysis Method : C:\HPCHEM\1\METHODS\CALJFIS.M
Last changed    : 9/25/2015 8:19:28 AM by WED
```



Internal Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      9/25/2015 8:18:48 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
  #      [mg/L]
----|-------------|-------------------------
  1      1.00000   IS-Isopropyl alcohol
```

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area ratio	Amount [mg/L]	Grp	Name
2.896	PP +I	1.08296e4	1.00000	1.00000		IS-Isopropyl alcohol
4.163	PB	1.52839e4	7.02240e-1	9.91083e-1		1-Butanol
12.852	PBA+	6.59846e4	1.89249e-1	1.15310		JP-8 Fuel

Totals without ISTD(s) : 2.14418

Results obtained with enhanced integrator!

Target
1
%R 115
BD
09-25-2015

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

eurofins

Eaton Analytical

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: NAVFAC Hawaii

Attn: Duane Morita
Environmental Lab, Code PRJ411
Building 1423, Central Avenue
JBPHH, HI 96860

Copies to: None

Report: 349268
Priority: Rush Verbal
Status: Final
PWS ID: HI0000360

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3324672	15-07970, Red Hill Rd 356-011	524.2	09/15/15 08:35	Client	09/18/15 09:30
3324673	15-07970, Red Hill Rd 356-011	525.2	09/15/15 08:35	Client	09/18/15 09:30
3324674	15-07970, Red Hill Rd 356-011	200.8	09/15/15 08:35	Client	09/18/15 09:30

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature

Title

09/30/2015
Date

Client Name: NAVFAC Hawaii
Report #: 349268

Client Name: NAVFAC Hawaii

Report #: 349268

Sampling Point: 15-07970, Red Hill Rd 356-011

PWS ID: HI0000360

Metals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	—	09/23/15 01:03	3324674

Semi-volatile Organic Chemicals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
83-32-9	Acenaphthene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
208-96-8	Acenaphthylene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
120-12-7	Anthracene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
206-44-0	Fluoranthene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
85-01-8	Phenanthrene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673
129-00-0	Pyrene	525.2	—	0.1	< 0.1	ug/L	09/22/15 08:11	09/22/15 22:10	3324673

Volatile Organic Chemicals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
71-43-2	Benzene	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
91-20-3	Naphthalene	524.2	—	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	—	09/21/15 13:12	3324672
95-47-6	1,2-Xylene	524.2	—	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
179601-23-1	1,3 + 1,4-Xylene	524.2	—	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	—	09/21/15 13:12	3324672

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

REPORT TO: NAVFAC Hawaii

BILL TO: NAVFAC Hawaii

SAMPLER (Signature):

COMPLIANCE MONITORING: Yes X No

PWS ID #: HI0000360

STATE (sample origin): HI

POPULATION SERVED:

SOURCE WATER: GW

PROJECT NAME:

PO#:

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3324672	09/15/15	0835	X		15-07970, IBPHH Red Hill 356-011	Volatiles (524.2) See attached list		X		3	DW	RV
2						TP001							
3	3324673						Semivolatiles (525.2) See attached list		X		2	DW	RV
4													
5	3324674						Lead (200.8)		X		1	DW	RV
6													
7													
8													
9	3324675	9.15.15				15-07971, Trip Blank	Volatiles (524.2)		X		2	DW	RV
10													
11													
12													
13													
14													

RUSH VERBAL

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
[signature]	9/15/15	[illegible] AM/PM	Fedex 8564 1152 7003		AM/PM
RELINQUISHED BY: (Signature)	DATE	TIME AM/PM	RECEIVED BY: (Signature)	DATE	TIME AM/PM
RELINQUISHED BY: (Signature)	DATE	TIME AM/PM	RECEIVED FOR LABORATORY BY: [signature]	9-16-15	0930 AM/PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced Wet/Blue ___ Ambient ___ 4.8 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written (15 working days) 0%		IV* = Immediate Verbal (3 working days)	100%
RV* = Rush Verbal (5 working days) 50%		IW* = Immediate Written (3 working days)	125%
RW* = Rush Written (5 working days) 75%		SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unpreserved with less than 48 hours holding time remaining may be subject to additional charges.

05-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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Run Log
Run ID: **207824** Method: **200.8**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
QCS	3325627		RW	DS	09/23/2015 00:00	
ICV	3325960		RW	DS	09/23/2015 00:03	
ICB	3325961		RW	DS	09/23/2015 00:07	
LRB	3327428		RW	DS	09/23/2015 00:10	
LFB	3325940		RW	DS	09/23/2015 00:16	
CCV	3325865		RW	DS	09/23/2015 00:56	
CCB	3325867		RW	DS	09/23/2015 01:00	
FS	3324674	15-07970, Red Hill Rd 356-011	DW	DS	09/23/2015 01:03	
MS	3327429	15-07970, Red Hill Rd 356-011	DW	DS	09/23/2015 01:06	
MSD	3327430	15-07970, Red Hill Rd 356-011	DW	DS	09/23/2015 01:09	
CCV	3325942		RW	DS	09/23/2015 01:40	
CCB	3325943		RW	DS	09/23/2015 01:43	
LFB	3325946		RW	DS	09/23/2015 01:46	

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
QCS	IS-Bismuth	200.8	N/A	—		0.9458	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 00:00	3325627
QCS	Lead	200.8	1.0	—		49.4470	50.0	ug/L	99	90 - 110	—	—	1.0	—	09/23/2015 00:00	3325627
QCS	IS-Scandium	200.8	N/A	—		0.9303	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:00	3325627
QCS	IS-Yttrium	200.8	N/A	—		0.9392	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 00:00	3325627
ICV	IS-Bismuth	200.8	N/A	—		0.9428	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 00:03	3325960
ICV	Lead	200.8	1.0	—		51.6180	50.0	ug/L	103	90 - 110	—	—	1.0	—	09/23/2015 00:03	3325960
ICV	IS-Scandium	200.8	N/A	—		0.9219	1.0	N/A	92	60 - 125	—	—	1.0	—	09/23/2015 00:03	3325960
ICV	IS-Yttrium	200.8	N/A	—		0.9338	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:03	3325960
ICB	IS-Bismuth	200.8	N/A	—		0.9367	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 00:07	3325961
ICB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	09/23/2015 00:07	3325961
ICB	IS-Scandium	200.8	N/A	—		0.9344	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:07	3325961
ICB	IS-Yttrium	200.8	N/A	—		0.9339	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:07	3325961
LRB	IS-Bismuth	200.8	N/A	—		0.9388	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 00:10	3327428
LRB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	09/23/2015 00:10	3327428
LRB	IS-Scandium	200.8	N/A	—		0.9256	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:10	3327428
LRB	IS-Yttrium	200.8	N/A	—		0.9324	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:10	3327428
LFB	IS-Bismuth	200.8	N/A	—		0.9434	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 00:16	3325940
LFB	Lead	200.8	1.0	—		96.3710	100	ug/L	96	85 - 115	—	—	1.0	—	09/23/2015 00:16	3325940
LFB	IS-Scandium	200.8	N/A	—		0.9320	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:16	3325940
LFB	IS-Yttrium	200.8	N/A	—		0.9271	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 00:16	3325940
CCV	IS-Bismuth	200.8	N/A	—		0.9195	1.0	N/A	92	60 - 125	—	—	1.0	—	09/23/2015 00:56	3325865
CCV	Lead	200.8	1.0	—		52.3670	50.0	ug/L	105	85 - 115	—	—	1.0	—	09/23/2015 00:56	3325865
CCV	IS-Scandium	200.8	N/A	—		0.9604	1.0	N/A	96	60 - 125	—	—	1.0	—	09/23/2015 00:56	3325865
CCV	IS-Yttrium	200.8	N/A	—		0.9550	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 00:56	3325865
CCB	IS-Bismuth	200.8	N/A	—		0.9258	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 01:00	3325867
CCB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	09/23/2015 01:00	3325867
CCB	IS-Scandium	200.8	N/A	—		0.9566	1.0	N/A	96	60 - 125	—	—	1.0	—	09/23/2015 01:00	3325867
CCB	IS-Yttrium	200.8	N/A	—		0.9514	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 01:00	3325867
FS	IS-Bismuth	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9287	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 01:03	3324674
FS	Lead	200.8	1.0	15-07970, Red Hill Rd 356-011	<	1.0		ug/L	—	—	—	—	1.0	—	09/23/2015 01:03	3324674
FS	IS-Scandium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9770	1.0	N/A	98	60 - 125	—	—	1.0	—	09/23/2015 01:03	3324674
FS	IS-Yttrium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9643	1.0	N/A	96	60 - 125	—	—	1.0	—	09/23/2015 01:03	3324674
MS	IS-Bismuth	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9107	1.0	N/A	91	60 - 125	—	—	1.0	—	09/23/2015 01:06	3327429
MS	Lead	200.8	1.0	15-07970, Red Hill Rd 356-011		50.4960	50.402	ug/L	100	70 - 130	—	—	1.0	—	09/23/2015 01:06	3327429
MS	IS-Scandium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9893	1.0	N/A	99	60 - 125	—	—	1.0	—	09/23/2015 01:06	3327429
MS	IS-Yttrium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9714	1.0	N/A	97	60 - 125	—	—	1.0	—	09/23/2015 01:06	3327429
MSD	IS-Bismuth	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9210	1.0	N/A	92	60 - 125	—	—	1.0	—	09/23/2015 01:09	3327430
MSD	Lead	200.8	1.0	15-07970, Red Hill Rd 356-011		50.2380	50.402	ug/L	100	70 - 130	0.5	18	1.0	—	09/23/2015 01:09	3327430
MSD	IS-Scandium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9979	1.0	N/A	100	60 - 125	—	—	1.0	—	09/23/2015 01:09	3327430
MSD	IS-Yttrium	200.8	N/A	15-07970, Red Hill Rd 356-011		0.9813	1.0	N/A	98	60 - 125	—	—	1.0	—	09/23/2015 01:09	3327430

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCV	IS-Bismuth	200.8	N/A	—		0.9307	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 01:40	3325942
CCV	Lead	200.8	1.0	—		52.2080	50.0	ug/L	104	85 - 115	—	—	1.0	—	09/23/2015 01:40	3325942
CCV	IS-Scandium	200.8	N/A	—		0.9535	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 01:40	3325942
CCV	IS-Yttrium	200.8	N/A	—		0.9460	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 01:40	3325942
CCB	IS-Bismuth	200.8	N/A	—		0.9225	1.0	N/A	92	60 - 125	—	—	1.0	—	09/23/2015 01:43	3325943
CCB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	09/23/2015 01:43	3325943
CCB	IS-Scandium	200.8	N/A	—		0.9461	1.0	N/A	95	60 - 125	—	—	1.0	—	09/23/2015 01:43	3325943
CCB	IS-Yttrium	200.8	N/A	—		0.9367	1.0	N/A	94	60 - 125	—	—	1.0	—	09/23/2015 01:43	3325943
LFB	IS-Bismuth	200.8	N/A	—		0.9179	1.0	N/A	92	60 - 125	—	—	1.0	—	09/23/2015 01:46	3325946
LFB	Lead	200.8	1.0	—		97.1910	100	ug/L	97	85 - 115	—	—	1.0	—	09/23/2015 01:46	3325946
LFB	IS-Scandium	200.8	N/A	—		0.9333	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 01:46	3325946
LFB	IS-Yttrium	200.8	N/A	—		0.9270	1.0	N/A	93	60 - 125	—	—	1.0	—	09/23/2015 01:46	3325946

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Run Log

Run ID: **207759** Method: **524.2**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3325429		RW	PW2	09/21/2015 10:17	524 2-091715-PW2.mth
CCL	3325430		RW	PW2	09/21/2015 11:18	524 2-091715-PW2.mth
LMB	3325431		RW	PW2	09/21/2015 12:06	524 2-091715-PW2.mth
LTB	3324675	LTB 9-14-15	RW	PW2	09/21/2015 12:39	524 2-091715-PW2.mth
FS	3324672	15-07970, Red Hill Rd 356-011	DW	PW2	09/21/2015 13:12	524 2-091715-PW2.mth
FD	3325654	15-07970, Red Hill Rd 356-011	DW	PW2	09/21/2015 13:45	524 2-091715-PW2.mth
CCC	3325807		RW	PW2	09/21/2015 18:55	524 2-091715-PW2.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-1,4-Difluorobenzene	524.2	N/A	—		776829	776629	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	SS-Bromofluorobenzene	524.2	N/A	—		5.1660	5.0	ug/L	103	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.8760	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	—		10.0250	10.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	SS-Toluene-d8	524.2	N/A	—		9.8370	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Benzene	524.2	0.5	—		5.0500	5.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Carbon tetrachloride	524.2	0.5	—		4.6420	5.0	ug/L	93	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Chlorobenzene	524.2	0.5	—		5.0940	5.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,2-Dichlorobenzene	524.2	0.5	—		5.0370	5.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,4-Dichlorobenzene	524.2	0.5	—		5.1840	5.0	ug/L	104	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,2-Dichloroethane	524.2	0.5	—		5.0170	5.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,1-Dichloroethylene	524.2	0.5	—		5.0230	5.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	cis-1,2-Dichloroethylene	524.2	0.5	—		4.9850	5.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	trans-1,2-Dichloroethylene	524.2	0.5	—		5.3430	5.0	ug/L	107	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Dichloromethane	524.2	0.5	—		4.3990	5.0	ug/L	88	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,2-Dichloropropane	524.2	0.5	—		4.9720	5.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Ethylbenzene	524.2	0.5	—		5.2000	5.0	ug/L	104	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Naphthalene	524.2	0.5	—		4.9330	5.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Styrene	524.2	0.5	—		4.8180	5.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Tetrachloroethylene	524.2	0.5	—		5.0850	5.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Toluene	524.2	0.5	—		5.1110	5.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,2,4-Trichlorobenzene	524.2	0.5	—		4.8240	5.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,1,1-Trichloroethane	524.2	0.5	—		4.9700	5.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,1,2-Trichloroethane	524.2	0.5	—		5.2240	5.0	ug/L	104	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Trichloroethylene	524.2	0.5	—		5.7340	5.0	ug/L	115	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	Vinyl chloride	524.2	0.2	—		3.8670	5.0	ug/L	77	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,2-Xylene	524.2	0.5	—		5.2350	5.0	ug/L	105	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCC	1,3 + 1,4-Xylene	524.2	0.5	—		10.3710	10.0	ug/L	104	70 - 130	—	—	1.0	—	09/21/2015 10:17	3325429
CCL	IS-1,4-Difluorobenzene	524.2	N/A	—		726407	726407	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	SS-Bromofluorobenzene	524.2	N/A	—		5.3440	5.0	ug/L	107	70 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		10.7380	10.0	ug/L	107	70 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	SS-1,2-Dichloroethane-d4	524.2	N/A	—		9.7890	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	SS-Toluene-d8	524.2	N/A	—		10.2600	10.0	ug/L	103	70 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Benzene	524.2	0.5	—		0.4770	0.5	ug/L	95	68 - 118	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Carbon tetrachloride	524.2	0.5	—		0.4650	0.5	ug/L	93	61 - 118	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Chlorobenzene	524.2	0.5	—		0.5190	0.5	ug/L	104	66 - 122	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,2-Dichlorobenzene	524.2	0.5	—		0.5230	0.5	ug/L	105	67 - 126	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,4-Dichlorobenzene	524.2	0.5	—		0.5110	0.5	ug/L	102	61 - 126	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,2-Dichloroethane	524.2	0.5	—		0.4660	0.5	ug/L	93	69 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,1-Dichloroethylene	524.2	0.5	—		0.4730	0.5	ug/L	95	62 - 121	—	—	1.0	—	09/21/2015 11:18	3325430

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	cis-1,2-Dichloroethylene	524.2	0.5	—		0.4880	0.5	ug/L	97	67 - 117	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	trans-1,2-Dichloroethylene	524.2	0.5	—		0.4880	0.5	ug/L	97	63 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Dichloromethane	524.2	0.5	—		0.3880	0.5	ug/L	78	38 - 154	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,2-Dichloropropane	524.2	0.5	—		0.4540	0.5	ug/L	91	65 - 121	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Ethylbenzene	524.2	0.5	—		0.4770	0.5	ug/L	95	63 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Styrene	524.2	0.5	—		0.4620	0.5	ug/L	92	54 - 133	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Tetrachloroethylene	524.2	0.5	—		0.4800	0.5	ug/L	96	59 - 124	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Toluene	524.2	0.5	—		0.4930	0.5	ug/L	99	65 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,2,4-Trichlorobenzene	524.2	0.5	—		0.5020	0.5	ug/L	100	57 - 150	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,1,1-Trichloroethane	524.2	0.5	—		0.4670	0.5	ug/L	93	61 - 118	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,1,2-Trichloroethane	524.2	0.5	—		0.4860	0.5	ug/L	97	66 - 118	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Trichloroethylene	524.2	0.5	—		0.4830	0.5	ug/L	97	64 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	Vinyl chloride	524.2	0.2	—		0.3280	0.5	ug/L	66	52 - 130	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,2-Xylene	524.2	0.5	—		0.5050	0.5	ug/L	101	67 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
CCL	1,3 + 1,4-Xylene	524.2	0.5	—		0.9940	1.0	ug/L	99	65 - 119	—	—	1.0	—	09/21/2015 11:18	3325430
LMB	IS-1,4-Difluorobenzene	524.2	N/A	—		792384	726407	ug/L	109	70 - 130	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	SS-Bromofluorobenzene	524.2	N/A	—		4.9070	5.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.6510	10.0	ug/L	97	70 - 130	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	SS-1,2-Dichloroethane-d4	524.2	N/A	—		9.7940	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	SS-Toluene-d8	524.2	N/A	—		9.6490	10.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Benzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Carbon tetrachloride	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Chlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,2-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,4-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,2-Dichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,1-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	cis-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	trans-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Dichloromethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,2-Dichloropropane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Ethylbenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Naphthalene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Styrene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Tetrachloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Toluene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,2,4-Trichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,1,1-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,1,2-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Trichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	Vinyl chloride	524.2	0.2	—	<	0.2		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LMB	1,2-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LMB	1,3 + 1,4-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:06	3325431
LTB	IS-1,4-Difluorobenzene	524.2	N/A	LTB 9-14-15		769553	726407	ug/L	106	70 - 130	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	SS-Bromofluorobenzene	524.2	N/A	LTB 9-14-15		4.8740	5.0	ug/L	97	70 - 130	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	LTB 9-14-15		9.6090	10.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	SS-1,2-Dichloroethane-d4	524.2	N/A	LTB 9-14-15		10.2480	10.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	SS-Toluene-d8	524.2	N/A	LTB 9-14-15		10.1110	10.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Benzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Carbon tetrachloride	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Chlorobenzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,2-Dichlorobenzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,4-Dichlorobenzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,2-Dichloroethane	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,1-Dichloroethylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	cis-1,2-Dichloroethylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	trans-1,2-Dichloroethylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Dichloromethane	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,2-Dichloropropane	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Ethylbenzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Naphthalene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Styrene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Tetrachloroethylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Toluene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,2,4-Trichlorobenzene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,1,1-Trichloroethane	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,1,2-Trichloroethane	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Vinyl chloride	524.2	0.2	LTB 9-14-15	<	0.2		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,2-Xylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	1,3 + 1,4-Xylene	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
LTB	Xylenes, Total	524.2	0.5	LTB 9-14-15	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 12:39	3324675
FS	IS-1,4-Difluorobenzene	524.2	N/A	15-07970, Red Hill Rd 356-011		785281	726407	ug/L	108	70 - 130	—	—	1.0	—	09/21/2015 13:12	3324672
FS	SS-Bromofluorobenzene	524.2	N/A	15-07970, Red Hill Rd 356-011		4.8850	5.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 13:12	3324672
FS	SS-1,2-Dichlorobenzene-d4	524.2	N/A	15-07970, Red Hill Rd 356-011		9.6300	10.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 13:12	3324672
FS	SS-1,2-Dichloroethane-d4	524.2	N/A	15-07970, Red Hill Rd 356-011		9.7540	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 13:12	3324672
FS	SS-Toluene-d8	524.2	N/A	15-07970, Red Hill Rd 356-011		9.8170	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 13:12	3324672
FS	Benzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672
FS	Carbon tetrachloride	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672
FS	Chlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672
FS	1,2-Dichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672
FS	1,4-Dichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672
FS	1,2-Dichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:12	3324672

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	1,1-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	cis-1,2-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	trans-1,2-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Dichloromethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,2-Dichloropropane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Ethylbenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Naphthalene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Styrene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Tetrachloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Toluene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,2,4-Trichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,1,1-Trichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,1,2-Trichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Trichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Vinyl chloride	524.2	0.2	15-07970, Red Hill Rd 356-011	<	0.2		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,2-Xylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	1,3 + 1,4-Xylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FS	Xylenes, Total	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:12	3324672
FD	IS-1,4-Difluorobenzene	524.2	N/A	15-07970, Red Hill Rd 356-011		779676	726407	ug/L	107	70 - 130	---	---	1.0	---	09/21/2015 13:45	3325654
FD	SS-Bromofluorobenzene	524.2	N/A	15-07970, Red Hill Rd 356-011		4.7490	5.0	ug/L	95	70 - 130	---	---	1.0	---	09/21/2015 13:45	3325654
FD	SS-1,2-Dichlorobenzene-d4	524.2	N/A	15-07970, Red Hill Rd 356-011		9.4590	10.0	ug/L	95	70 - 130	---	---	1.0	---	09/21/2015 13:45	3325654
FD	SS-1,2-Dichloroethane-d4	524.2	N/A	15-07970, Red Hill Rd 356-011		9.9280	10.0	ug/L	99	70 - 130	---	---	1.0	---	09/21/2015 13:45	3325654
FD	SS-Toluene-d8	524.2	N/A	15-07970, Red Hill Rd 356-011		9.8070	10.0	ug/L	98	70 - 130	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Benzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Carbon tetrachloride	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Chlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,2-Dichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,4-Dichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,2-Dichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,1-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	cis-1,2-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	trans-1,2-Dichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Dichloromethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,2-Dichloropropane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Ethylbenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Naphthalene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Styrene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Tetrachloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	Toluene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,2,4-Trichlorobenzene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654
FD	1,1,1-Trichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	---	---	---	---	1.0	---	09/21/2015 13:45	3325654

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FD	1,1,2-Trichloroethane	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:45	3325654
FD	Trichloroethylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:45	3325654
FD	Vinyl chloride	524.2	0.2	15-07970, Red Hill Rd 356-011	<	0.2		ug/L	—	—	—	—	1.0	—	09/21/2015 13:45	3325654
FD	1,2-Xylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:45	3325654
FD	1,3 + 1,4-Xylene	524.2	0.5	15-07970, Red Hill Rd 356-011	<	0.5		ug/L	—	—	—	—	1.0	—	09/21/2015 13:45	3325654
CCC	IS-1,4-Difluorobenzene	524.2	N/A	—		757207	757207	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	SS-Bromofluorobenzene	524.2	N/A	—		5.0640	5.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.8770	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	—		10.1610	10.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	SS-Toluene-d8	524.2	N/A	—		9.8690	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Benzene	524.2	0.5	—		9.6460	10.0	ug/L	96	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Carbon tetrachloride	524.2	0.5	—		9.4810	10.0	ug/L	95	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Chlorobenzene	524.2	0.5	—		9.9400	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,2-Dichlorobenzene	524.2	0.5	—		10.4220	10.0	ug/L	104	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,4-Dichlorobenzene	524.2	0.5	—		10.2060	10.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,2-Dichloroethane	524.2	0.5	—		9.8760	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,1-Dichloroethylene	524.2	0.5	—		9.8880	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	cis-1,2-Dichloroethylene	524.2	0.5	—		10.0640	10.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	trans-1,2-Dichloroethylene	524.2	0.5	—		9.8760	10.0	ug/L	99	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Dichloromethane	524.2	0.5	—		9.9900	10.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,2-Dichloropropane	524.2	0.5	—		9.9720	10.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Ethylbenzene	524.2	0.5	—		10.0800	10.0	ug/L	101	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Naphthalene	524.2	0.5	—		9.8250	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Styrene	524.2	0.5	—		9.8060	10.0	ug/L	98	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Tetrachloroethylene	524.2	0.5	—		9.6850	10.0	ug/L	97	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Toluene	524.2	0.5	—		10.0320	10.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,2,4-Trichlorobenzene	524.2	0.5	—		9.4580	10.0	ug/L	95	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,1,1-Trichloroethane	524.2	0.5	—		9.9680	10.0	ug/L	100	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,1,2-Trichloroethane	524.2	0.5	—		10.2810	10.0	ug/L	103	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Trichloroethylene	524.2	0.5	—		10.6270	10.0	ug/L	106	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	Vinyl chloride	524.2	0.2	—		9.3370	10.0	ug/L	93	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,2-Xylene	524.2	0.5	—		10.1860	10.0	ug/L	102	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807
CCC	1,3 + 1,4-Xylene	524.2	0.5	—		19.0760	20.0	ug/L	95	70 - 130	—	—	1.0	—	09/21/2015 18:55	3325807

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Run Log
Run ID: **207832** Method: **525.2**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3326846		OS	DO	09/22/2015 16:34	525 2-DO-061715a-up3.mth
CCC	3326847		OS	DO	09/22/2015 17:16	525 2-DO-061715a-up3.mth
CCC	3326848		OS	DO	09/22/2015 17:58	525 2-DO-061715a-up3.mth
LFB	3326826		RW	DO	09/22/2015 18:40	525 2-DO-061715a-up3.mth
LFB	3326827		RW	DO	09/22/2015 19:22	525 2-DO-061715a-up3.mth
LFB	3326828		RW	DO	09/22/2015 20:04	525 2-DO-061715a-up3.mth
FS	3324673	15-07970, Red Hill Rd 356-011	DW	DO	09/22/2015 22:10	525 2-DO-061715a-up3.mth
FD	3326823	15-07970, Red Hill Rd 356-011	DW	DO	09/22/2015 22:52	525 2-DO-061715a-up3.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Chrysene-d12	525.2	N/A	---		1721000	1721000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2641000	2641000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	IS-Pyrene-d10	525.2	N/A	---		1782000	1782000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.5550	5.0	ug/L	91	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.1350	5.0	ug/L	83	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.6130	5.0	ug/L	112	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	Fluoranthene	525.2	0.1	---		5.3620	5.0	ug/L	107	73 - 122	---	---	1.0	09/22/2015 08:11	09/22/2015 16:34	3326846
CCC	IS-Chrysene-d12	525.2	N/A	---		1810000	1810000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2686000	2686000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	IS-Pyrene-d10	525.2	N/A	---		1775000	1775000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.5570	5.0	ug/L	111	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.8280	5.0	ug/L	97	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.6500	5.0	ug/L	113	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	Benzo(a)pyrene	525.2	0.02	---		5.2300	5.0	ug/L	105	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	Di(2-ethylhexyl)adipate	525.2	0.6	---		6.1270	5.0	ug/L	123	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	Di(2-ethylhexyl)phthalate	525.2	0.6	---		5.8840	5.0	ug/L	118	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:16	3326847
CCC	IS-Chrysene-d12	525.2	N/A	---		2024000	2024000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2954000	2954000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	IS-Pyrene-d10	525.2	N/A	---		1951000	1951000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.2920	5.0	ug/L	86	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.7800	5.0	ug/L	96	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.3860	5.0	ug/L	108	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	Acenaphthene	525.2	0.1	---		4.8880	5.0	ug/L	98	72 - 122	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	Acenaphthylene	525.2	0.1	---		5.5060	5.0	ug/L	110	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	Anthracene	525.2	0.1	---		5.2480	5.0	ug/L	105	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	Phenanthrene	525.2	0.1	---		4.6380	5.0	ug/L	93	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
CCC	Pyrene	525.2	0.1	---		4.6500	5.0	ug/L	93	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 17:58	3326848
LFB	IS-Chrysene-d12	525.2	N/A	---		1648000	2024000	ug/L	81	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	IS-Phenanthrene-d10	525.2	N/A	---		2576000	2954000	ug/L	87	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	IS-Pyrene-d10	525.2	N/A	---		1862000	1951000	ug/L	95	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.8220	5.0	ug/L	96	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		3.6250	5.0	ug/L	72	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	SS-Triphenylphosphate	525.2	N/A	---		6.0280	5.0	ug/L	121	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	Fluoranthene	525.2	0.1	---		4.9460	5.0	ug/L	99	74 - 125	---	---	1.0	09/22/2015 08:11	09/22/2015 18:40	3326826
LFB	IS-Chrysene-d12	525.2	N/A	---		1653000	2024000	ug/L	82	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	IS-Phenanthrene-d10	525.2	N/A	---		2518000	2954000	ug/L	85	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	IS-Pyrene-d10	525.2	N/A	---		1809000	1951000	ug/L	93	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.4000	5.0	ug/L	108	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.2620	5.0	ug/L	85	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	SS-Triphenylphosphate	525.2	N/A	---		6.0120	5.0	ug/L	120	70 - 130	---	---	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LFB	Benzo(a)pyrene	525.2	0.02	—		5.0710	5.0	ug/L	101	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	Di(2-ethylhexyl)adipate	525.2	0.6	—		6.2730	5.0	ug/L	125	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	Di(2-ethylhexyl)phthalate	525.2	0.6	—		5.9010	5.0	ug/L	118	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 19:22	3326827
LFB	IS-Chrysene-d12	525.2	N/A	—		1832000	2024000	ug/L	91	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	IS-Phenanthrene-d10	525.2	N/A	—		2522000	2954000	ug/L	85	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	IS-Pyrene-d10	525.2	N/A	—		1837000	1951000	ug/L	94	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		4.2960	5.0	ug/L	86	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		4.3240	5.0	ug/L	86	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	SS-Triphenylphosphate	525.2	N/A	—		5.5660	5.0	ug/L	111	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	Acenaphthene	525.2	0.1	—		5.0690	5.0	ug/L	101	58 - 116	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	Acenaphthylene	525.2	0.1	—		5.5980	5.0	ug/L	112	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	Anthracene	525.2	0.1	—		5.2320	5.0	ug/L	105	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	Phenanthrene	525.2	0.1	—		4.7500	5.0	ug/L	95	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
LFB	Pyrene	525.2	0.1	—		4.7170	5.0	ug/L	94	70 - 130	—	—	1.0	09/22/2015 08:11	09/22/2015 20:04	3326828
FS	IS-Chrysene-d12	525.2	N/A	15-07970, Red Hill Rd 356-011		1544000	2024000	ug/L	76	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	IS-Phenanthrene-d10	525.2	N/A	15-07970, Red Hill Rd 356-011		2588000	2954000	ug/L	88	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	IS-Pyrene-d10	525.2	N/A	15-07970, Red Hill Rd 356-011		1843000	1951000	ug/L	94	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	15-07970, Red Hill Rd 356-011		5.1160	5.0	ug/L	105	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	15-07970, Red Hill Rd 356-011		4.5050	5.0	ug/L	93	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	SS-Triphenylphosphate	525.2	N/A	15-07970, Red Hill Rd 356-011		5.9720	5.0	ug/L	123	70 - 130	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Acenaphthene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Acenaphthylene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Anthracene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Benzo(a)pyrene	525.2	0.02	15-07970, Red Hill Rd 356-011	<	0.02		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Di(2-ethylhexyl)adipate	525.2	0.6	15-07970, Red Hill Rd 356-011	<	0.6		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Di(2-ethylhexyl)phthalate	525.2	0.6	15-07970, Red Hill Rd 356-011	<	0.6		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Fluoranthene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Phenanthrene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FS	Pyrene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.97	09/22/2015 08:11	09/22/2015 22:10	3324673
FD	IS-Chrysene-d12	525.2	N/A	15-07970, Red Hill Rd 356-011		1582000	2024000	ug/L	78	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	IS-Phenanthrene-d10	525.2	N/A	15-07970, Red Hill Rd 356-011		2563000	2954000	ug/L	87	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	IS-Pyrene-d10	525.2	N/A	15-07970, Red Hill Rd 356-011		1843000	1951000	ug/L	94	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	SS-4,4'-Dichlorobiphenyl	525.2	N/A	15-07970, Red Hill Rd 356-011		5.1930	5.0	ug/L	106	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	15-07970, Red Hill Rd 356-011		4.6270	5.0	ug/L	94	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	SS-Triphenylphosphate	525.2	N/A	15-07970, Red Hill Rd 356-011		5.8550	5.0	ug/L	119	70 - 130	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Acenaphthene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Acenaphthylene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Anthracene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Benzo(a)pyrene	525.2	0.02	15-07970, Red Hill Rd 356-011	<	0.02		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Di(2-ethylhexyl)adipate	525.2	0.6	15-07970, Red Hill Rd 356-011	<	0.6		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Di(2-ethylhexyl)phthalate	525.2	0.6	15-07970, Red Hill Rd 356-011	<	0.6		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FD	Fluoranthene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Phenanthrene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823
FD	Pyrene	525.2	0.1	15-07970, Red Hill Rd 356-011	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/22/2015 22:52	3326823

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Run Log
Run ID: **207870** Method: **525.2**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3327580		OS	DO	09/23/2015 14:36	525 2-DO-061715a-up3.mth
CCC	3327581		OS	DO	09/23/2015 15:18	525 2-DO-061715a-up3.mth
CCC	3327582		OS	DO	09/23/2015 16:00	525 2-DO-061715a-up3.mth
LMB	3326825		RW	DO	09/23/2015 17:24	525 2-DO-061715a-up3.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Chrysene-d12	525.2	N/A	---		1596000	1596000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2570000	2570000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	IS-Pyrene-d10	525.2	N/A	---		1656000	1656000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.4080	5.0	ug/L	88	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.0450	5.0	ug/L	81	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.7700	5.0	ug/L	115	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	Fluoranthene	525.2	0.1	---		5.0620	5.0	ug/L	101	73 - 122	---	---	1.0	09/22/2015 08:11	09/23/2015 14:36	3327580
CCC	IS-Chrysene-d12	525.2	N/A	---		1585000	1585000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2273000	2273000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	IS-Pyrene-d10	525.2	N/A	---		1546000	1546000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.4970	5.0	ug/L	110	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.7040	5.0	ug/L	94	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.7170	5.0	ug/L	114	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	Benzo(a)pyrene	525.2	0.02	---		5.1400	5.0	ug/L	103	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	Di(2-ethylhexyl)adipate	525.2	0.6	---		6.3020	5.0	ug/L	126	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	Di(2-ethylhexyl)phthalate	525.2	0.6	---		6.0380	5.0	ug/L	121	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 15:18	3327581
CCC	IS-Chrysene-d12	525.2	N/A	---		1759000	1759000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2522000	2522000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	IS-Pyrene-d10	525.2	N/A	---		1734000	1734000	ug/L	100	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.0930	5.0	ug/L	82	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.7220	5.0	ug/L	94	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.2710	5.0	ug/L	105	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	Acenaphthene	525.2	0.1	---		4.8720	5.0	ug/L	97	72 - 122	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	Acenaphthylene	525.2	0.1	---		5.5330	5.0	ug/L	111	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	Anthracene	525.2	0.1	---		5.2310	5.0	ug/L	105	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	Phenanthrene	525.2	0.1	---		4.5830	5.0	ug/L	92	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
CCC	Pyrene	525.2	0.1	---		4.5500	5.0	ug/L	91	70 - 130	---	---	1.0	09/22/2015 08:11	09/23/2015 16:00	3327582
LMB	IS-Chrysene-d12	525.2	N/A	---		1269000	1759000	ug/L	72	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	IS-Phenanthrene-d10	525.2	N/A	---		2175000	2522000	ug/L	86	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	IS-Pyrene-d10	525.2	N/A	---		1631000	1734000	ug/L	94	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.2960	5.0	ug/L	106	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.1790	5.0	ug/L	85	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	SS-Triphenylphosphate	525.2	N/A	---		6.3440	5.0	ug/L	129	70 - 130	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Acenaphthene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Acenaphthylene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Anthracene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Benzo(a)pyrene	525.2	0.02	---	<	0.02		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Di(2-ethylhexyl)adipate	525.2	0.6	---	<	0.6		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Di(2-ethylhexyl)phthalate	525.2	0.6	---	<	0.6		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Fluoranthene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825

QC Summary Report (cont.)															
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LMB	Phenanthrene	525.2	0.1	—	<	0.1		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825
LMB	Pyrene	525.2	0.1	—	<	0.1		ug/L	—	—	—	—	0.98	09/22/2015 08:11	09/23/2015 17:24	3326825

Sample Type Key

Type (Abbr.)	Sample Type
CCV	Continuing Cali. Verification
CCB	Continuing Calibration Blank
CCC	Continuing Calibration Check
CCL	Continuing Calibration Low
FD	Field Duplicate
FS	Field Sample
ICV	Initial Cali. Verification
ICB	Initial Calibration Blank
LFB	Laboratory Fortified Blank
LMB	Laboratory Method Blank
LRB	Laboratory Reagent Blank
LTB	Laboratory Trip Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QCS	Quality Control Sample

Type (Abbr.)	Sample Type

NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

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JON: 114742202015	ESM:	POC: Randy Kawamura	PH#: 473-3160	FAX#: 473-1545
Report To: Randy Kawamura		Copy To: Arleen Mizuno	Copy To:	
NAVFAC HI OPBP6		NAVFAC HI EV1		
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Sample ID	Sample Description	Matrix Code	Sampling Date	Sampling Time	Container Vol	Container Type	Analysis Required	Preservative / Res. Cl (ppm)	FOR LAB USE ONLY pH	FOR LAB USE ONLY Lab Number	Ext.	Lctn.	Cond. A	Cond. U
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the Cl2 Bldg	DW	9/15/2015	0835	3x40mL	Glass	Volatiles (524.2)*	Ascorbic, HCl		15-07970	1-3	C	✓	
					2x1L	Glass	Semi-Volatiles (525.2)*	Sulfite, HCl			4-5	C	✓	
					3x40mL	Glass	TPH as Diesel (JP-8) (8015)				6-8	C	✓	
					125mL	Plastic	Lead (200.8)	HNO_3 pH<2			9	C	✓	
Trip Blank					2x40mL	Glass	Volatiles	Ascorbic, HCl		15-07971	1-2	C	✓	

Sampling Information	Transportation Information		Unused Sample Disposition	Sample Condition
Location Sampled: Red Hill	Transported/Stored in: Cooler with ice	Cooler Temp: 3.9 °C	[ ] Return to customer	[✓] Received with CoC
Sampler(s): (Print names clearly) K. Miyaki	Air bill/Carrier ID#: —		[X] Dispose at 60 Days	[ ] Received with Custody Seals
			[ ] Archive for ____ Days	[ ] Seals Required [ ] Seals Intact
			[ ] Contact before disposal	[✓] Labels and CoC agree

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.

Laboratory must certified by the Hawaii State DOH Drinking Water Program.

*See attached for list of analytes.

RUSH

Relinquished By: (Print clearly & Sign)	Date	Time	Received By: (Print clearly & Sign)	Date	Time
K. Miyaki	9/15/15	1325		091515	1325