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

JAN 18 2018

5090
Ser N45/0409
January 18, 2018

CERTIFIED NO: 7015 0640 0002 4678 0233

Ms. Joanna Seto, Chief
Hawaii State Department of Health
Environmental Management Division
Safe Drinking Water Branch
2385 Waimano Home Road
Uluakupu Building 4
Pearl City, HI 96782

Dear Ms. Seto:

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

Results for drinking water samples taken at the Red Hill Shaft as required by the Transition Plan for Tank 5 Red Hill Release are enclosed. A summary of the laboratory results that are enclosed is provided in the table below.

Lab Report Number	Sample Location(s)	Sample Date	Laboratory Methods
405336	360-011, TAP OUTSIDE CL2 BLDG	12/19/17	200.8, 524.2, 525.2
405337CN	360-011, TAP OUTSIDE CL2 BLDG	12/19/17	8015B

No contaminants were detected. Should you have any questions regarding this matter, please contact Mr. Ravi Mohandie at (808) 471-1171 extension 260.

Sincerely,

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

Enclosure: 1. NAVFAC Hawaii Laboratory Lab Numbers 18-01923 and 18-01924 (35 pages)

5090
Ser N45/0409
January 18, 2018

Copy to:

Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section (Hard copy and CD enclosures)

Mr. John Floyd, NAVSUP Fleet Logistics Center Pearl Harbor Deputy Director, Fuel and Facility Management (CD enclosures)

Mr. Rockne Krill, DLA Energy Pacific (CD enclosures)

MEMORANDUM

11 Jan 18

Packet No: 18-019230111

From: NAVFAC HAWAII, Environmental Services Laboratory, PRP411

To: Kyle Teraoka NAVFACHI OPBP6

Copy To: Ravi Mohandie NAVFAC HI, EV1

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

Encl: Lab Number(s) 18-01923 , 18-01924

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.~~ 1/11/18

Duane Morita, Acting Laboratory Manager

TOTAL NO. OF PAGES: 35

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: _____

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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	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 01/02/2018

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LABORATORY CASE NARRATIVE

Client. NAVFAC Hawaii

Report #: 405337CN

All method QC was within acceptance limits.

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

01/02/2018

Authorized Signature | Title | Date

Page 1 of 1

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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.: 310315
Receipt Batch No.: 405337

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 0.05-4 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 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: 3842237 **SAMPLE SITE:** 18-01923JBPHHRedHill TP001-360-011

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	90	124	112

Bill Davis 01-02-2018
Analyst signature Date

Reviewer signature 01/02/2018
Date

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

Order # 310315
Batch # 405337

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

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	3542237	12/19/17	0900	X		18 01923 JBPHH Red Hill TP001 360-011	TPH as Diesel (JP-8) (8015)		X		3	DW	RV
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RUSH VERBAL

RELINQUISHED BY (Signature)	DATE	TIME AM	TIME PM	RECEIVED BY (Signature)	DATE	TIME AM	TIME PM
	12/19/17	1400		Fedex			
RELINQUISHED BY (Signature)	DATE	TIME AM	TIME PM	RECEIVED BY (Signature)	DATE	TIME AM	TIME PM
RELINQUISHED BY:(Signature)	DATE	TIME AM	TIME PM	RECEIVED FOR LABORATORY BY	DATE	TIME AM	TIME PM
					12/20/17	1000	

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced Wet/Blue ___ Ambient 1, 2 °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%
RW* = Rush Verbal (5 working days) 50%
RW* = Rush Written (5 working days) 75%
IV* = Immediate Verbal (3 working days) 100%
IW* = Immediate Written (3 working days) 125%
SP* = Weekend Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

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

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

NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

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

JON: 178014602018	ESM:	POC: Kyle Teraoka	PH#: 473-1160 / FAX#: 473-1545
Report To: Kyle Teraoka		Copy To: Ravi Mohandie	Copy To:
NAVFAC HI OPBP6		NAVFAC HI EV1	
kyle.teraoka@navy.mil		ravi.mohandie@navy.mil	

Sample ID	Sample Description	Matrix Code	Sampling Date	Sampling Time	Container Vol	Container Type	Analysis Required	Preservative Res. Cl (ppm)	pH	Lab Number	Ext.	Letn.	Cond. √	Cond. X
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill. TP001. Tap outside the CB Bldg	DW	12/19/2017	0900	3x40ml	Glass	Volatiles (524.3)	Ascorbic, HCl		18-01923	1.1	C	✓	
					2x1L	Glass	Semi Volatiles (525.2)	Sulfite, HCl / 3.1			4.5	C		
					3x40ml	Glass	TPH as Diesel (OP-8) (8015)				6.8	C		
					125ml	Plastic	Lead (200.8)	HNO3 pH<2			9	C		
Trip Blank			9/6/2017		2x40ml	Glass	Volatiles	Ascorbic, HCl		18-01924	1.2	C	✓	

Sampling Information	Transportation Information		Unused Sample Disposition	Sample Condition
Location Sampled: Red Hill	Transported/Stored in: Cooler with ice	Cooler Temp: 1.1 C	[ ] Return to customer	[✓] Received with CoC
			[X] Dispose at 60 Days	[ ] Received with Custody Seals
Sampler(s): (Print names clearly) K. Miyaki	Air bill/Carrier ID#:		[ ] 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

Relinquished By: (Print clearly & Sign)	Date	Time	Received By: (Print clearly & Sign)	Date	Time
K. Miyaki [signature]	12/19/17	1200	[signature]	12/19/17	1200

PH NAVFAC HI 6280/5 (Rev. 04-05)

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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	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

eurofins
Eaton Analytical

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

Report: 405336
Priority: Rush Verbal
Status: Final
PWS ID: HI0000360

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3842233	18-01923, JBPHH Red Hill	524 2	12/19/17 09 00	Client	12/21/17 10 00
3842234	18-01923, JBPHH Red Hill	525 2	12/19/17 09 00	Client	12/21/17 10 00
3842235	18-01923, JBPHH Red Hill	200 8	12/19/17 09 00	Client	12/21/17 10 00

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 Blackburn at (574) 233-4777.

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

Authorized Signature Title 01/02/2018 Date

Client Name: NAVFAC Hawaii
Report #: 405336

Client Name: NAVFAC Hawaii

Report #: 405336

Sampling Point: 18-01923, JBPHH Red Hill

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	—	12/22/17 16 54	3842235

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	12/27/17 08 05	12/28/17 10 57	3842234
208-96-8	Acenaphthylene $	525 2	---	0 1	< 0 1	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
120-12-7	Anthracene $	525 2	---	0 1	< 0 1	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
50-32-8	Benzo(a)pyrene	525 2	0 2 *	0 02	< 0 02	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
103-23-1	Di(2-ethylhexyl)adipate	525 2	400 *	0 6	< 0 6	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
117-81-7	Di(2-ethylhexyl)phthalate	525 2	6 *	0 6	< 0 6	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
206-44-0	Fluoranthene $	525 2	---	0 1	< 0 1	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
85-01-8	Phenanthrene $	525 2	---	0 1	< 0 1	ug/L	12/27/17 08 05	12/27/17 19 06	3842234
129-00-0	Pyrene $	525 2	---	0 1	< 0 1	ug/L	12/27/17 08 05	12/27/17 19 06	3842234

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	---	12/21/17 22 25	3842233
56-23-5	Carbon tetrachloride	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
108-90-7	Chlorobenzene	524 2	100 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
95-50-1	1,2-Dichlorobenzene	524 2	600 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
106-46-7	1,4-Dichlorobenzene	524 2	75 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
107-06-2	1,2-Dichloroethane	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
75-35-4	1,1-Dichloroethylene	524 2	7 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
156-59-2	cis-1,2-Dichloroethylene	524 2	70 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
156-60-5	trans-1,2-Dichloroethylene	524 2	100 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
75-09-2	Dichloromethane	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
78-87-5	1,2-Dichloropropane	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
100-41-4	Ethylbenzene	524 2	700 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
91-20-3	Naphthalene	524 2	—	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
100-42-5	Styrene	524 2	100 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
127-18-4	Tetrachloroethylene	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
108-88-3	Toluene	524 2	1000 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
120-82-1	1,2,4-Trichlorobenzene	524 2	70 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
71-55-6	1,1,1-Trichloroethane	524 2	200 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
79-00-5	1,1,2-Trichloroethane	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
79-01-6	Trichloroethylene	524 2	5 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
75-01-4	Vinyl chloride	524 2	2 *	0 2	< 0 2	ug/L	---	12/27/17 11 19	3842233
95-47-6	1,2-Xylene	524 2	---	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
179601-23-1	1,3 + 1,4-Xylene	524 2	---	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233
1330-20-7	Xylenes, Total	524 2	10000 *	0 5	< 0 5	ug/L	---	12/21/17 22 25	3842233

$ The state of origin does not offer certification for this parameter.

† 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 aliquot 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.

eurofins

Eaton Analytical

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

Order # 310315

Batch # 405336

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 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		X			GW

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3842233	12/19/17	0900	X		18-01923, JBPHH Red Hill	Volatiles (524.2) See attached list		X		3	DW	RV
2						TP001 360 011							
3	3842234						Semivolatiles (525.2) See attached list		X		2	DW	RV
4													
5	3842235						Lead (200.8)		X		1	DW	RV
6													
7													
8													
9	3842236	9/6/17				18-01924	Volatiles (524.2)		X		2	DW	RV
10						Trip Blank							
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED BY:(Signature)	DATE	TIME AM/PM
	12/19/17	1442	Fedex		
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	DATE	TIME AM/PM
			KDW	12/21/17	1000

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

LAB COMMENTS

PUSH VERBAL

CONDITIONS UPON RECEIPT (check one)

X Iced/Wet Ice ___ Ambient 1.2 °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 unannounced with less than 48 hours holding time remaining may be subject to additional charges

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
Napthalene (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)

TPH as Diesel (JP-8) (SW846 8015 GCMS)

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Eaton Analytical

Eurofins Eaton Analytical
Run Log
Run ID: 237991 Method: 200.8

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
UQCSM	3843817		RW	CN	12/22/2017 16 25	
ICV	3843818		RW	CN	12/22/2017 16 27	
ICB	3843819		RW	CN	12/22/2017 16 30	
LRB	3843821		RW	CN	12/22/2017 16 35	
LFB	3843823		RW	CN	12/22/2017 16 41	
FS	3842235	18-01923, JBPHH Red Hill	DW	CN	12/22/2017 16:54	
CCV	3843826		RW	CN	12/22/2017 17.22	
CCB	3843827		RW	CN	12/22/2017 17.25	
CCV	3843829		RW	CN	12/22/2017 17 51	
CCB	3843830		RW	CN	12/22/2017 17 54	

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 #
UQCSM	IS-Bismuth Channel 1	200.8	N/A	—		1.0051	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:25	3843817
UQCSM	IS-Scandium Channel 1	200.8	N/A	—		1.0053	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:25	3843817
UQCSM	IS-Yttrium Channel 1	200.8	N/A	—		1.0032	1.0	N/A	100	60 - 125	—	—	1.0	—	12/22/2017 16:25	3843817
UQCSM	Lead	200.8	1.0	—		48.5300	50.0	ug/L	97	90 - 110	—	—	1.0	—	12/22/2017 16:25	3843817
ICV	IS-Bismuth Channel 1	200.8	N/A	—		1.0078	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:27	3843818
ICV	IS-Scandium Channel 1	200.8	N/A	—		1.0053	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:27	3843818
ICV	IS-Yttrium Channel 1	200.8	N/A	—		1.0083	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:27	3843818
ICV	Lead	200.8	1.0	—		48.2900	50.0	ug/L	97	90 - 110	—	—	1.0	—	12/22/2017 16:27	3843818
ICB	IS-Bismuth Channel 1	200.8	N/A	—		1.0051	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:30	3843819
ICB	IS-Scandium Channel 1	200.8	N/A	—		1.0106	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:30	3843819
ICB	IS-Yttrium Channel 1	200.8	N/A	—		1.0000	1.0	N/A	100	60 - 125	—	—	1.0	—	12/22/2017 16:30	3843819
ICB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	12/22/2017 16:30	3843819
LRB	IS-Bismuth Channel 1	200.8	N/A	—		1.0152	1.0	N/A	102	60 - 125	—	—	1.0	—	12/22/2017 16:35	3843821
LRB	IS-Scandium Channel 1	200.8	N/A	—		1.0266	1.0	N/A	103	60 - 125	—	—	1.0	—	12/22/2017 16:35	3843821
LRB	IS-Yttrium Channel 1	200.8	N/A	—		1.0159	1.0	N/A	102	60 - 125	—	—	1.0	—	12/22/2017 16:35	3843821
LRB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	12/22/2017 16:35	3843821
LFB	IS-Bismuth Channel 1	200.8	N/A	—		1.0127	1.0	N/A	101	60 - 125	—	—	1.0	—	12/22/2017 16:41	3843823
LFB	IS-Scandium Channel 1	200.8	N/A	—		1.0160	1.0	N/A	102	60 - 125	—	—	1.0	—	12/22/2017 16:41	3843823
LFB	IS-Yttrium Channel 1	200.8	N/A	—		1.0159	1.0	N/A	102	60 - 125	—	—	1.0	—	12/22/2017 16:41	3843823
LFB	Lead	200.8	1.0	—		47.7400	50.0	ug/L	95	85 - 115	—	—	1.0	—	12/22/2017 16:41	3843823
FS	IS-Bismuth Channel 1	200.8	N/A	16-01923, JBPHH Red Hill		0.9620	1.0	N/A	96	60 - 125	—	—	1.0	—	12/22/2017 16:54	3842235
FS	IS-Scandium Channel 1	200.8	N/A	16-01923, JBPHH Red Hill		1.0532	1.0	N/A	105	60 - 125	—	—	1.0	—	12/22/2017 16:54	3842235
FS	IS-Yttrium Channel 1	200.8	N/A	16-01923, JBPHH Red Hill		1.0159	1.0	N/A	102	60 - 125	—	—	1.0	—	12/22/2017 16:54	3842235
FS	Lead	200.8	1.0	16-01923, JBPHH Red Hill	<	1.0		ug/L	—	—	—	—	1.0	—	12/22/2017 16:54	3842235
CCV	IS-Bismuth Channel 1	200.8	N/A	—		0.9873	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:22	3843826
CCV	IS-Scandium Channel 1	200.8	N/A	—		0.9947	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:22	3843826
CCV	IS-Yttrium Channel 1	200.8	N/A	—		0.9841	1.0	N/A	98	60 - 125	—	—	1.0	—	12/22/2017 17:22	3843826
CCV	Lead	200.8	1.0	—		48.3200	50.0	ug/L	97	85 - 115	—	—	1.0	—	12/22/2017 17:22	3843826
CCB	IS-Bismuth Channel 1	200.8	N/A	—		0.9873	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:25	3843827
CCB	IS-Scandium Channel 1	200.8	N/A	—		0.9894	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:25	3843827
CCB	IS-Yttrium Channel 1	200.8	N/A	—		0.9873	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:25	3843827
CCB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	12/22/2017 17:25	3843827
CCV	IS-Bismuth Channel 1	200.8	N/A	—		0.9924	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:51	3843829
CCV	IS-Scandium Channel 1	200.8	N/A	—		0.9947	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:51	3843829
CCV	IS-Yttrium Channel 1	200.8	N/A	—		0.9937	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:51	3843829
CCV	Lead	200.8	1.0	—		49.1600	50.0	ug/L	98	85 - 115	—	—	1.0	—	12/22/2017 17:51	3843829
CCB	IS-Bismuth Channel 1	200.8	N/A	—		0.9797	1.0	N/A	98	60 - 125	—	—	1.0	—	12/22/2017 17:54	3843830
CCB	IS-Scandium Channel 1	200.8	N/A	—		0.9840	1.0	N/A	98	60 - 125	—	—	1.0	—	12/22/2017 17:54	3843830
CCB	IS-Yttrium Channel 1	200.8	N/A	—		0.9905	1.0	N/A	99	60 - 125	—	—	1.0	—	12/22/2017 17:54	3843830
CCB	Lead	200.8	1.0	—	<	1.0		ug/L	—	—	—	—	1.0	—	12/22/2017 17:54	3843830

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 #

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Eurofins Eaton Analytical
Run Log
Run ID: 237923 Method: 524.2

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3842081		RW	PW2	12/21/2017 11:30	524 2-121017-PW2-up1.mth
LMB	3842082		RW	PW2	12/21/2017 12:13	524 2-121017-PW2-up1.mth
CCC	3842515		RW	PW2	12/21/2017 19:39	524 2-121017-PW2-up1.mth
LMB	3843006		RW	PW2	12/21/2017 21:19	524 2-121017-PW2-up1.mth
LTB	3842236	LTB 9-6-17	RW	PW2	12/21/2017 21:52	524 2-121017-PW2-up1.mth
FS	3842233	18-01923, JBPHH Red Hill	DW	PW2	12/21/2017 22:25	524 2-121017-PW2-up1.mth
CCC	3843007		RW	PW2	12/22/2017 02:49	524 2-121017-PW2-up1.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 #
CCL	IS-1,4-Difluorobenzene	524.2	N/A	—		264244	264244	ug/L	100	50 - 150	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	SS-Bromofluorobenzene	524.2	N/A	—		5.1130	5.0	ug/L	102	70 - 130	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.8720	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	SS-1,2-Dichloroethane-d4	524.2	N/A	—		9.5410	10.0	ug/L	95	70 - 130	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	SS-Toluene-d8	524.2	N/A	—		9.7580	10.0	ug/L	98	70 - 130	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Benzene	524.2	0.5	—		0.4550	0.5	ug/L	91	68 - 118	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Carbon tetrachloride	524.2	0.5	—		0.4090	0.5	ug/L	82	81 - 118	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Chlorobenzene	524.2	0.5	—		0.4520	0.5	ug/L	90	66 - 122	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,2-Dichlorobenzene	524.2	0.5	—		0.5020	0.5	ug/L	100	67 - 126	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,4-Dichlorobenzene	524.2	0.5	—		0.4770	0.5	ug/L	95	61 - 126	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,2-Dichloroethane	524.2	0.5	—		0.4650	0.5	ug/L	93	69 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,1-Dichloroethylene	524.2	0.5	—		0.4710	0.5	ug/L	94	82 - 121	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	cis-1,2-Dichloroethylene	524.2	0.5	—		0.4570	0.5	ug/L	91	87 - 117	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	trans-1,2-Dichloroethylene	524.2	0.5	—		0.4670	0.5	ug/L	93	83 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Dichloromethane	524.2	0.5	—		0.4430	0.5	ug/L	89	38 - 154	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,2-Dichloropropane	524.2	0.5	—		0.4590	0.5	ug/L	92	65 - 121	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Ethylbenzene	524.2	0.5	—		0.4730	0.5	ug/L	95	63 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Styrene	524.2	0.5	—		0.4530	0.5	ug/L	91	54 - 133	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Tetrachloroethylene	524.2	0.5	—		0.4780	0.5	ug/L	96	59 - 124	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Toluene	524.2	0.5	—		0.4550	0.5	ug/L	91	65 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,2,4-Trichlorobenzene	524.2	0.5	—		0.4780	0.5	ug/L	96	57 - 150	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,1,1-Trichloroethane	524.2	0.5	—		0.4810	0.5	ug/L	96	81 - 118	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,1,2-Trichloroethane	524.2	0.5	—		0.4730	0.5	ug/L	95	86 - 116	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	Trichloroethylene	524.2	0.5	—		0.5150	0.5	ug/L	103	64 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,2-Xylene	524.2	0.5	—		0.4840	0.5	ug/L	97	67 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
CCL	1,3 + 1,4-Xylene	524.2	0.5	—		0.9370	1.0	ug/L	94	65 - 119	—	—	1.0	—	12/21/2017 11:30	3842081
LMB	IS-1,4-Difluorobenzene	524.2	N/A	—		263432	264244	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	SS-Bromofluorobenzene	524.2	N/A	—		5.1050	5.0	ug/L	102	70 - 130	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		10.0920	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	SS-1,2-Dichloroethane-d4	524.2	N/A	—		9.7600	10.0	ug/L	98	70 - 130	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	SS-Toluene-d8	524.2	N/A	—		9.8680	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Benzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Carbon tetrachloride	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Chlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,2-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,4-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,2-Dichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,1-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	cis-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	trans-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082

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	Dichloromethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,2-Dichloropropane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Ethylbenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Naphthalene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Styrene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Tetrachloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Toluene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,2,4-Trichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,1,1-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,1,2-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	Trichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,2-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
LMB	1,3 + 1,4-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 12:13	3842082
CCC	IS-1,4-Difluorobenzene	524.2	N/A	—		249374	249374	ug/L	100	50 - 150	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	SS-Bromofluorobenzene	524.2	N/A	—		5.2860	5.0	ug/L	106	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		10.2320	10.0	ug/L	102	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	—		10.7850	10.0	ug/L	108	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	SS-Toluene-d8	524.2	N/A	—		10.6770	10.0	ug/L	107	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Benzene	524.2	0.5	—		10.0360	10.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Carbon tetrachloride	524.2	0.5	—		9.3190	10.0	ug/L	93	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Chlorobenzene	524.2	0.5	—		10.0230	10.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,2-Dichlorobenzene	524.2	0.5	—		10.5040	10.0	ug/L	105	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,4-Dichlorobenzene	524.2	0.5	—		10.0010	10.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,2-Dichloroethane	524.2	0.5	—		10.1030	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,1-Dichloroethylene	524.2	0.5	—		9.7590	10.0	ug/L	98	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	cis-1,2-Dichloroethylene	524.2	0.5	—		10.1130	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	trans-1,2-Dichloroethylene	524.2	0.5	—		9.7990	10.0	ug/L	98	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Dichloromethane	524.2	0.5	—		10.2790	10.0	ug/L	103	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,2-Dichloropropane	524.2	0.5	—		10.3400	10.0	ug/L	103	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Ethylbenzene	524.2	0.5	—		10.3750	10.0	ug/L	104	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Naphthalene	524.2	0.5	—		10.3300	10.0	ug/L	103	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Styrene	524.2	0.5	—		10.1860	10.0	ug/L	102	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Tetrachloroethylene	524.2	0.5	—		10.0930	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Toluene	524.2	0.5	—		10.1080	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,2,4-Trichlorobenzene	524.2	0.5	—		10.1380	10.0	ug/L	101	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,1,1-Trichloroethane	524.2	0.5	—		9.8540	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,1,2-Trichloroethane	524.2	0.5	—		10.3620	10.0	ug/L	104	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	Trichloroethylene	524.2	0.5	—		9.2250	10.0	ug/L	92	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,2-Xylene	524.2	0.5	—		10.4480	10.0	ug/L	104	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
CCC	1,3 + 1,4-Xylene	524.2	0.5	—		20.0800	20.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 19:39	3842515
LMB	IS-1,4-Difluorobenzene	524.2	N/A	—		260378	249374	ug/L	104	70 - 130	—	—	1.0	—	12/21/2017 21:19	3843006

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	SS-Bromofluorobenzene	524.2	N/A	—		5.1890	5.0	ug/L	104	70 - 130	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.9430	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	SS-1,2-Dichloroethane-d4	524.2	N/A	—		10.0070	10.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	SS-Toluene-d8	524.2	N/A	—		10.0300	10.0	ug/L	100	70 - 130	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Benzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Carbon tetrachloride	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Chlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,2-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,4-Dichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,2-Dichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,1-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	cis-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	trans-1,2-Dichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Dichloromethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,2-Dichloropropane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Ethylbenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Naphthalene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Styrene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Tetrachloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Toluene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,2,4-Trichlorobenzene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,1,1-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,1,2-Trichloroethane	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	Trichloroethylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,2-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LMB	1,3 + 1,4-Xylene	524.2	0.5	—	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:19	3843006
LTB	IS-1,4-Difluorobenzene	524.2	N/A	LTB 9-6-17		268516	249374	ug/L	108	70 - 130	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	SS-Bromofluorobenzene	524.2	N/A	LTB 9-6-17		5.1200	5.0	ug/L	102	70 - 130	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	LTB 9-6-17		9.5040	10.0	ug/L	96	70 - 130	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	SS-1,2-Dichloroethane-d4	524.2	N/A	LTB 9-6-17		9.8930	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	SS-Toluene-d8	524.2	N/A	LTB 9-6-17		9.8970	10.0	ug/L	99	70 - 130	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	Benzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	Carbon tetrachloride	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	Chlorobenzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	1,2-Dichlorobenzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	1,4-Dichlorobenzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	1,2-Dichloroethane	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	1,1-Dichloroethylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	cis-1,2-Dichloroethylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	trans-1,2-Dichloroethylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236
LTB	Dichloromethane	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	—	—	—	—	1.0	—	12/21/2017 21:52	3842236

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 #
LTB	1,2-Dichloropropane	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Ethylbenzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Naphthalene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Styrene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Tetrachloroethylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Toluene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	1,2,4-Trichlorobenzene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	1,1,1-Trichloroethane	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	1,1,2-Trichloroethane	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	1,2-Xylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	1,3 + 1,4-Xylene	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
LTB	Xylenes, Total	524.2	0.5	LTB 9-6-17	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 21:52	3842236
FS	IS-1,4-Difluorobenzene	524.2	N/A	18-01923, JBPHH Red Hill		276735	249374	ug/L	111	70 - 130	---	---	1.0	---	12/21/2017 22:25	3842233
FS	SS-Bromofluorobenzene	524.2	N/A	18-01923, JBPHH Red Hill		5.0240	5.0	ug/L	100	70 - 130	---	---	1.0	---	12/21/2017 22:25	3842233
FS	SS-1,2-Dichlorobenzene-d4	524.2	N/A	18-01923, JBPHH Red Hill		9.4110	10.0	ug/L	94	70 - 130	---	---	1.0	---	12/21/2017 22:25	3842233
FS	SS-1,2-Dichloroethane-d4	524.2	N/A	18-01923, JBPHH Red Hill		9.4350	10.0	ug/L	94	70 - 130	---	---	1.0	---	12/21/2017 22:25	3842233
FS	SS-Toluene-d8	524.2	N/A	18-01923, JBPHH Red Hill		9.7030	10.0	ug/L	97	70 - 130	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Benzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Carbon tetrachloride	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Chlorobenzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,2-Dichlorobenzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,4-Dichlorobenzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,2-Dichloroethane	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,1-Dichloroethylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	cis-1,2-Dichloroethylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	trans-1,2-Dichloroethylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Dichloromethane	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,2-Dichloropropane	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Ethylbenzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Naphthalene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Styrene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Tetrachloroethylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Toluene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,2,4-Trichlorobenzene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,1,1-Trichloroethane	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,1,2-Trichloroethane	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Trichloroethylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,2-Xylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	1,3 + 1,4-Xylene	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
FS	Xylenes, Total	524.2	0.5	18-01923, JBPHH Red Hill	<	0.5		ug/L	---	---	---	---	1.0	---	12/21/2017 22:25	3842233
CCC	IS-1,4-Difluorobenzene	524.2	N/A	---		257740	257740	ug/L	100	50 - 150	---	---	1.0	---	12/22/2017 02:49	3843007

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 #
CCC	SS-Bromofluorobenzene	524.2	N/A	—		4.9460	5.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	—		9.6410	10.0	ug/L	96	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	—		10.3800	10.0	ug/L	104	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	SS-Toluene-d8	524.2	N/A	—		10.2550	10.0	ug/L	103	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Benzene	524.2	0.5	—		17.6240	18.0	ug/L	98	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Carbon tetrachloride	524.2	0.5	—		17.7960	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Chlorobenzene	524.2	0.5	—		17.6170	18.0	ug/L	98	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,2-Dichlorobenzene	524.2	0.5	—		18.1490	18.0	ug/L	101	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,4-Dichlorobenzene	524.2	0.5	—		17.0850	18.0	ug/L	95	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,2-Dichloroethane	524.2	0.5	—		17.6090	18.0	ug/L	98	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,1-Dichloroethylene	524.2	0.5	—		17.7660	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	cis-1,2-Dichloroethylene	524.2	0.5	—		17.5420	18.0	ug/L	97	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	trans-1,2-Dichloroethylene	524.2	0.5	—		17.8990	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Dichloromethane	524.2	0.5	—		17.9650	18.0	ug/L	100	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,2-Dichloropropane	524.2	0.5	—		17.6770	18.0	ug/L	98	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Ethylbenzene	524.2	0.5	—		17.7930	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Naphthalene	524.2	0.5	—		17.1640	18.0	ug/L	95	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Styrene	524.2	0.5	—		17.8260	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Tetrachloroethylene	524.2	0.5	—		18.0210	18.0	ug/L	100	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Toluene	524.2	0.5	—		17.4160	18.0	ug/L	97	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,2,4-Trichlorobenzene	524.2	0.5	—		16.8840	18.0	ug/L	94	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,1,1-Trichloroethane	524.2	0.5	—		18.2210	18.0	ug/L	101	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,1,2-Trichloroethane	524.2	0.5	—		18.2270	18.0	ug/L	101	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	Trichloroethylene	524.2	0.5	—		16.7350	18.0	ug/L	93	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,2-Xylene	524.2	0.5	—		17.8490	18.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007
CCC	1,3 + 1,4-Xylene	524.2	0.5	—		35.7440	36.0	ug/L	99	70 - 130	—	—	1.0	—	12/22/2017 02:49	3843007

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Run Log
Run ID: **238025** Method: **524.2**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3843435		RW	B	12/27/2017 08 36	524 2-121217B.mth
CCL	3843436		RW	B	12/27/2017 09 22	524 2-121217B.mth
LMB	3843437		RW	B	12/27/2017 10 05	524 2-121217B.mth
LTB	3842236	LTB 9-6-17	RW	B	12/27/2017 10 45	524 2-121217B.mth
FS	3842233	18-01923, JBPHH Red Hill	DW	B	12/27/2017 11 19	524 2-121217B.mth
CCC	3843444		RW	B	12/27/2017 17 26	524 2-121217B.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	Vinyl chloride	524.2	0.2	—		5.6110	5.0	ug/L	112	70 - 130	—	—	1.0	—	12/27/2017 08:38	3843435
CCL	Vinyl chloride	524.2	0.2	—		0.4400	0.5	ug/L	88	52 - 130	—	—	1.0	—	12/27/2017 09:22	3843436
LMB	Vinyl chloride	524.2	0.2	—	<	0.2		ug/L	—	—	—	—	1.0	—	12/27/2017 10:05	3843437
LTB	Vinyl chloride	524.2	0.2	LTB 9-6-17	<	0.2		ug/L	—	—	—	—	1.0	—	12/27/2017 10:45	3842230
FS	Vinyl chloride	524.2	0.2	18-01923, JBPHH Red Hill	<	0.2		ug/L	—	—	—	—	1.0	—	12/27/2017 11:19	3842233
CCC	Vinyl chloride	524.2	0.2	—		7.1400	7.5	ug/L	95	70 - 130	—	—	1.0	—	12/27/2017 17:26	3843444

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Run Log
Run ID: 238027 Method: 525.2

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3843490		OS	DO	12/27/2017 13:28	525 2-DO-101216a-up1.mth
CCC	3843491		OS	DO	12/27/2017 14:11	525 2-DO-101216a-up1.mth
CCC	3843492		OS	DO	12/27/2017 15:36	525 2-DO-101216a-up1.mth
LFB	3843487		RW	DO	12/27/2017 16:18	525 2-DO-101216a-up1.mth
LFB	3843488		RW	DO	12/27/2017 17:00	525 2-DO-101216a-up1.mth
LFB	3843489		RW	DO	12/27/2017 17:42	525 2-DO-101216a-up1.mth
LMB	3843486		RW	DO	12/27/2017 18:24	525 2-DO-101216a-up1.mth
FS	3842234	18-01923, JBPHH Red Hill	DW	DO	12/27/2017 19:06	525 2-DO-101216a-up1.mth
MS	3843485	18-01923, JBPHH Red Hill	DW	DO	12/27/2017 19:48	525 2-DO-101216a-up1.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	—		2347000	2347000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	IS-Phenanthrene-d10	525.2	N/A	—		3882000	3882000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	IS-Pyrene-d10	525.2	N/A	—		2379000	2379000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		4.1550	5.0	ug/L	83	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		4.8250	5.0	ug/L	96	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	SS-Triphenylphosphate	525.2	N/A	—		5.3920	5.0	ug/L	108	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	Acenaphthylene	525.2	0.1	—		3.7320	5.0	ug/L	75	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	Anthracene	525.2	0.1	—		4.1610	5.0	ug/L	83	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	Phenanthrene	525.2	0.1	—		3.6550	5.0	ug/L	73	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	Pyrene	525.2	0.1	—		3.9610	5.0	ug/L	79	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 13:28	3843490
CCC	IS-Chrysene-d12	525.2	N/A	—		2295000	2295000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	IS-Phenanthrene-d10	525.2	N/A	—		3909000	3909000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	IS-Pyrene-d10	525.2	N/A	—		2402000	2402000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		5.0050	5.0	ug/L	100	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		4.3480	5.0	ug/L	87	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	SS-Triphenylphosphate	525.2	N/A	—		5.5570	5.0	ug/L	111	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	Fluoranthene	525.2	0.1	—		4.5840	5.0	ug/L	92	73 - 122	—	—	1.0	12/27/2017 08:05	12/27/2017 14:11	3843491
CCC	IS-Chrysene-d12	525.2	N/A	—		2360000	2360000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	IS-Phenanthrene-d10	525.2	N/A	—		3992000	3992000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	IS-Pyrene-d10	525.2	N/A	—		2498000	2498000	ug/L	100	50 - 150	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		5.5060	5.0	ug/L	110	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		5.1100	5.0	ug/L	102	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	SS-Triphenylphosphate	525.2	N/A	—		5.5600	5.0	ug/L	111	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	Benzo(a)pyrene	525.2	0.02	—		4.7010	5.0	ug/L	94	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	Di(2-ethylhexyl)adipate	525.2	0.6	—		4.7270	5.0	ug/L	95	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
CCC	Di(2-ethylhexyl)phthalate	525.2	0.6	—		4.9490	5.0	ug/L	99	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 15:36	3843492
LFB	IS-Chrysene-d12	525.2	N/A	—		2289000	2360000	ug/L	97	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	IS-Phenanthrene-d10	525.2	N/A	—		3667000	3992000	ug/L	92	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	IS-Pyrene-d10	525.2	N/A	—		2853000	2498000	ug/L	114	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		5.0260	5.0	ug/L	101	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		4.1760	5.0	ug/L	84	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	SS-Triphenylphosphate	525.2	N/A	—		5.6780	5.0	ug/L	114	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	Fluoranthene	525.2	0.1	—		5.4440	5.0	ug/L	109	74 - 125	—	—	1.0	12/27/2017 08:05	12/27/2017 16:18	3843487
LFB	IS-Chrysene-d12	525.2	N/A	—		2165000	2360000	ug/L	92	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	IS-Phenanthrene-d10	525.2	N/A	—		3578000	3992000	ug/L	90	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	IS-Pyrene-d10	525.2	N/A	—		2652000	2498000	ug/L	106	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	—		5.2240	5.0	ug/L	104	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	—		4.7450	5.0	ug/L	95	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	SS-Triphenylphosphate	525.2	N/A	—		5.6970	5.0	ug/L	114	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	Benzo(a)pyrene	525.2	0.02	—		5.2720	5.0	ug/L	105	70 - 130	—	—	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488

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	Di(2-ethylhexyl)adipate	525.2	0.6	---		5.4940	5.0	ug/L	110	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	Di(2-ethylhexyl)phthalate	525.2	0.6	---		5.6680	5.0	ug/L	113	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:00	3843488
LFB	IS-Chrysene-d12	525.2	N/A	---		2273000	2360000	ug/L	96	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	IS-Phenanthrene-d10	525.2	N/A	---		3492000	3992000	ug/L	87	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	IS-Pyrene-d10	525.2	N/A	---		2858000	2498000	ug/L	114	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.0880	5.0	ug/L	82	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.8130	5.0	ug/L	96	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	SS-Triphenylphosphate	525.2	N/A	---		5.6090	5.0	ug/L	112	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	Acenaphthene	525.2	0.1	---		3.9680	5.0	ug/L	79	58 - 116	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	Acenaphthylene	525.2	0.1	---		4.4270	5.0	ug/L	89	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	Anthracene	525.2	0.1	---		4.8570	5.0	ug/L	97	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	Phenanthrene	525.2	0.1	---		4.4110	5.0	ug/L	88	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LFB	Pyrene	525.2	0.1	---		4.9200	5.0	ug/L	98	70 - 130	---	---	1.0	12/27/2017 08:05	12/27/2017 17:42	3843489
LMB	IS-Chrysene-d12	525.2	N/A	---		1731000	2360000	ug/L	73	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	IS-Phenanthrene-d10	525.2	N/A	---		2912000	3992000	ug/L	73	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	IS-Pyrene-d10	525.2	N/A	---		2474000	2498000	ug/L	99	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.1870	5.0	ug/L	107	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.8400	5.0	ug/L	100	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	SS-Triphenylphosphate	525.2	N/A	---		5.3870	5.0	ug/L	111	70 - 130	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Acenaphthene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Acenaphthylene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Anthracene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Benzo(a)pyrene	525.2	0.02	---	<	0.02		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Di(2-ethylhexyl)adipate	525.2	0.6	---	<	0.6		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Di(2-ethylhexyl)phthalate	525.2	0.6	---	<	0.6		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Fluoranthene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Phenanthrene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
LMB	Pyrene	525.2	0.1	---	<	0.1		ug/L	---	---	---	---	0.97	12/27/2017 08:05	12/27/2017 18:24	3843486
FS	IS-Chrysene-d12	525.2	N/A	18-01923 JBPHH Red Hill		2130000	2360000	ug/L	90	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	IS-Phenanthrene-d10	525.2	N/A	18-01923 JBPHH Red Hill		3431000	3992000	ug/L	86	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	IS-Pyrene-d10	525.2	N/A	18-01923 JBPHH Red Hill		2616000	2498000	ug/L	105	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	18-01923 JBPHH Red Hill		5.3720	5.0	ug/L	109	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	18-01923 JBPHH Red Hill		4.9170	5.0	ug/L	99	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	SS-Triphenylphosphate	525.2	N/A	18-01923 JBPHH Red Hill		5.5610	5.0	ug/L	112	70 - 130	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Acenaphthylene	525.2	0.1	18-01923 JBPHH Red Hill	<	0.1		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Anthracene	525.2	0.1	18-01923 JBPHH Red Hill	<	0.1		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Benzo(a)pyrene	525.2	0.02	18-01923 JBPHH Red Hill	<	0.02		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Di(2-ethylhexyl)adipate	525.2	0.6	18-01923 JBPHH Red Hill	<	0.6		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Di(2-ethylhexyl)phthalate	525.2	0.6	18-01923 JBPHH Red Hill	<	0.6		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Fluoranthene	525.2	0.1	18-01923 JBPHH Red Hill	<	0.1		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
FS	Phenanthrene	525.2	0.1	18-01923 JBPHH Red Hill	<	0.1		ug/L	---	---	---	---	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DH Factor	Extracted	Analyzed	EEA ID #
FS	Pyrene	525.2	0.1	18-01923, JBPHH Red Hill	<	0.1		ug/L	—	—	—	—	0.99	12/27/2017 08:05	12/27/2017 19:06	3842234
MS	IS-Chrysene-d12	525.2	N/A	18-01923, JBPHH Red Hill		2569000	2360000	ug/L	109	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	IS-Phenanthrene-d10	525.2	N/A	18-01923, JBPHH Red Hill		3676000	3992000	ug/L	92	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	IS-Pyrene-d10	525.2	N/A	18-01923, JBPHH Red Hill		2988000	2498000	ug/L	120	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	18-01923, JBPHH Red Hill		4.0250	5.0	ug/L	81	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	18-01923, JBPHH Red Hill		4.3400	5.0	ug/L	88	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	SS-Triphenylphosphate	525.2	N/A	18-01923, JBPHH Red Hill		5.6820	5.0	ug/L	115	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Acenaphthylene	525.2	0.1	18-01923 JBPHH Red Hill		4.3850	5.0	ug/L	88	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Anthracene	525.2	0.1	18-01923 JBPHH Red Hill		4.5540	5.0	ug/L	92	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Benzo(a)pyrene	525.2	0.02	18-01923 JBPHH Red Hill		5.1240	5.0	ug/L	104	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Di(2-ethylhexyl)adipate	525.2	0.6	18-01923 JBPHH Red Hill		5.5070	5.0	ug/L	111	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Di(2-ethylhexyl)phthalate	525.2	0.6	18-01923 JBPHH Red Hill		5.6540	5.0	ug/L	114	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Fluoranthene	525.2	0.1	18-01923 JBPHH Red Hill		5.6870	5.0	ug/L	115	74 - 125	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Phenanthrene	525.2	0.1	18-01923 JBPHH Red Hill		4.3300	5.0	ug/L	87	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485
MS	Pyrene	525.2	0.1	18-01923 JBPHH Red Hill		5.0200	5.0	ug/L	101	70 - 130	—	—	0.99	12/27/2017 08:05	12/27/2017 19:48	3843485

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Run Log
Run ID: 238058 Method: 525.2

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3844220		OS	DO	12/28/2017 09:33	525 2-DO-101216a-up1.mth
FS	3842234	18-01923, JBPHH Red Hill	DW	DO	12/28/2017 10 57	525 2-DO-101216a-up1.mth
MS	3843485	18-01923, JBPHH Red Hill	DW	DO	12/28/2017 11 39	525 2-DO-101216a-up1.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	Acenaphthene	525.2	0.1	—		3.8410	5.0	ug/L	77	72 - 122	—	—	1.0	12/20/2017 08:53	12/28/2017 09:33	3844220
FS	Acenaphthene	525.2	0.1	18-01923, JBPHH Red Hill	<	0.1		ug/L	—	—	—	—	0.99	12/27/2017 08:05	12/28/2017 10:57	3842234
MS	IS-Chrysene-d12	525.2	N/A	18-01923, JBPHH Red Hill		2715000	2581000	ug/L	105	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	IS-Phenanthrene-d10	525.2	N/A	18-01923, JBPHH Red Hill		4090000	3888000	ug/L	105	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	IS-Pyrene-d10	525.2	N/A	18-01923, JBPHH Red Hill		3207000	2853000	ug/L	112	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	18-01923, JBPHH Red Hill		3.8090	5.0	ug/L	77	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	SS-2 4,5,6-Tetrachloro-m-xylene	525.2	N/A	18-01923, JBPHH Red Hill		4.2080	5.0	ug/L	85	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	SS-Triphenylphosphate	525.2	N/A	18-01923, JBPHH Red Hill		5.6230	5.0	ug/L	114	70 - 130	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485
MS	Acenaphthene	525.2	0.1	18-01923, JBPHH Red Hill		3.7350	5.0	ug/L	75	58 - 118	—	—	0.99	12/27/2017 08:05	12/28/2017 11:39	3843485

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCV	Continuing Cali. Verification		
CCB	Continuing Calibration Blank		
CCC	Continuing Calibration Check		
CCL	Continuing Calibration Low		
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		
UQCSM	Unextracted QCS Mid		

END OF REPORT

NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

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

JON:	178014602018	ESM:		POC:	Kyle Teraoka	PH#: 473-3160	FAX#: 473-1545
Report To:	Kyle Teraoka			Copy To:	Ravi Mohandie	Copy To:	
	NAVFAC HI OPBP6				NAVFAC HI EV1		
	kyle.teraoka@navy.mil				ravi.mohandie@navy.mil		

Sample ID	Sample Description	Matrix Code	Sampling Date	Sampling Time	Container Vol	Container Type	Analysis Required	Preservative / Res. Cl (ppm)	pH	Lab Number	Ext.	Lctn.	Cond. A	Cond. U
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the Cl2 Bldg	DW	12/19/2017	0900	3x40mL	Glass	Volatiles (524.2)	Ascorbic, HCl		18-01923	1-3	C	✓	
					2x1L	Glass	Semi-Volatiles (525.2)	Sulfite, HCl / 3.1			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			9/6/2017		2x40mL	Glass	Volatiles	Ascorbic, HCl		18-01924	1-2	C	✓	

Sampling Information	Transportation Information		Unused Sample Disposition	Sample Condition
Location Sampled: Red Hill	Transported/Stored in: Cooler with ice	Cooler Temp: 1.1 °C	[ ] Return to customer	[✓] Received with CoC
			[X] Dispose at 60 Days	[ ] Received with Custody Seals
Sampler(s): (Print names clearly) K. Miyaki	Air bill/Carrier ID#:		[ ] 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.

Relinquished By: (Print clearly & Sign)	Date	Time	Received By: (Print clearly & Sign)	Date	Time
K. Miyaki *Kmiyaki*	12/19/17	1200	L. Lawe[illegible] (signature)	12/19/17	1200