eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

Honolulu Board of Water Supply
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843
Attention: Erwin Kawata
Fax: 808-550-5018

REPORT REVISED,
replaces the original report.

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Date of Issue
04/12/2022

Linda Geddes
EUROFINS EATON ANALYTICAL, LLC

DEB: Debbie L Frank
Project Manager

Report: 515305
Project: RED-HILL
Group: Monitoring Wells Expanded+

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Honolulu Board of Water Supply**
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Attn: Erwin Kawata
Phone: 808-748-5091

Client ID: HONOLULU
Folder #: 515305
Project: RED-HILL
Sample Group: Monitoring Wells Expanded+

Project Manager: Debbie.L.Frank
Phone: (626) 386-1149
PO #: C14564101 exp 021315
Sampler: JANICE MARSTERS

The following samples were received from you on **January 09, 2015** at **1141**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201501090270	DH-43 (MOANALUA)	01/07/2015 1230

@ICPMS	Mercury	@504MOD
@525PLUS PLUS TICS	@625A_Physis	@625BN_Physis
@625PAH_Physis_TICS	@ML505	@MTBE-524.3(SIM)
@TBA-524.3(SIM)	@VOASDWA PLUS TICS	(SUB)Gas Fraction Hydrocarbons
Alkalinity in CaCO3 units	Bicarb.Alkalinity as HCO3,calc	Bromide by 300.0
Calcium Total ICAP	Carbonate as CO3, Calculated	Chloride
Ethanol in Water by 1671_ELLI	Fluoride	Iron Total ICAP
Lead dissolved ICAP/MS	Magnesium Total ICAP	Manganese Total ICAP
Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Organic Lead_Emax
PH (H3=past HT not compliant)	Potassium Total ICAP	Sodium Total ICAP
Specific Conductance	Sulfate	Miscellaneous Charges
Total Dissolved Solid (TDS)	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5
TPH 8015 Jef Fuel 8		

201501090271	Equipment Blank DH-43		01/06/2015 1630
@ICPMS	@BTEX_8260_C	@ML505	
TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	TPH 8015 Jef Fuel 8	
201501090272	TRAVEL BLANK raw (DH-43)		01/07/2015 1230
@504MOD TB	@MTBE-524.3(SIM) TB	@TBA-524.3(SIM) TB	
@VOASDWA PLUS TICS TB	(SUB)Gas Fraction Hydrocarbons		
201501100016	DH-43 (MOANALUA)		01/07/2015 1230
@8260SLO PLUS TICS			
201501100017	TRAVEL BLANK raw (DH-43)		01/07/2015 1230
@8260SLO PLUS TICS TB			

Test Description

@ICPMS -- ICPMS Metals

@504MOD -- EPA Method 504.1

@504MOD TB -- EPA Method 504.1

@525PLUS PLUS TICS -- Semivolatiles by GCMS

@625A_Physis -- 625 Acid Extractable in ug/L

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Sample #	Sample ID	Sample Date
	@625BN_Physis -- 625 Base Neutral Extractable in ug/L	
	@625PAH_Physis_TICS -- 625PAH in ug/L	
	@8260SLO PLUS TICS -- Volatile Organics by GCMS	
	@8260SLO PLUS TICS TB -- Volatile Organics by GCMS	
	@BTEX_8260_C -- Volatile Organics by GCMS	
	@ML505 -- Organochlorine Pesticides/PCBs	
	@MTBE-524.3(SIM) -- MTBE by 524.3 SIM	
	@MTBE-524.3(SIM) TB -- MTBE by 524.3 SIM	
	@TBA-524.3(SIM) -- TBA by 524.3 SIM	
	@TBA-524.3(SIM) TB -- TBA by 524.3 SIM	
	@VOASDWA PLUS TICS -- Volatile Organics by GCMS	
	@VOASDWA PLUS TICS TB -- Volatile Organics by GCMS	

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CHAIN OF CUSTODY RECORD

515304 5

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: JP

_____ SAMPLES LOGGED IN BY: W

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☒ Monrovia 2.4 − 0.3 = 2.1 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen X Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: KENNEDY / JENKS

PROJECT CODE: Ph 2: Sample @ 1467004 *00

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☒ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE: | COC ID: | SAMPLE GROUP:

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ✓ (check for yes), OR

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only contract STD X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	pesticides EPA 505	TPH-diesel fuel ranges	SAMPLER COMMENTS
1/7/15	12:30	DH-43		RGW			see attached bottle order for this sample.		
1/6/15	15:30	Equipment blank - DH-43		BLQ			~~distilled~~ 4 2 1		distilled water

JAN 09 2015 11:41

Victor Plascencia
Eurofins Eaton Analytical

1 of 2
TRK# 0215 8770 9342 1514
MASTER

2 of 2
MPS# 0681 7801 6698 2980
Mstr# 8770 9342 1514

* MATRIX TYPES: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Chlor(am)inated Finished Water; FW = Other Finished Water; SEAW = Sea Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; SO = Soil; SL = Sludge; ■ = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Janice Marsters	JANICE MARSTERS	~~Kennedy~~ / Jenks / Sr. Environment Engineer	1/7/15	12:30
RELINQUISHED BY:	Janice Marsters	JANICE MARSTERS	Kennedy / Jenks " " "	1/8/15	13:45
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

2 coolers

QA FO 0029 (06/26/2013)

PAGE 1 OF 1

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Honolulu Board of Water Supply

Debbie.L.Frank is your Eurofins Eaton Analytical Project Manager

DH-43

Note: Sampler Please return this paper with your samples

Kit #: 103597
Created By: DEB
Deliver By: 01/05/2015
STG: Bottle Orders
Ice Type: G

Client ID: HONOLULU
Project Code: RED-HILL Bottle Orders
Group Name: Monitoring Wells Expanded+
PO#/JOB#: C14564101 exp 021315

Ship Sample Kits to
Kennedy Jenks
3375 Koapaka Street, Suite F227
Honolulu, HI 96819

Attn: Janice C. Marsters
Phone: 808.218.6040

Send Report to
Honolulu Board of Water Supply
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Attn: Erwin Kawata
Phone: 808-748-5091
Fax: 808-550-5018

Billing Address
Honolulu Board of Water Supply
630 South Beretania Street
Honolulu, HI 96843

Attn: Regina Souza
Phone: 808-748-5082
Fax: 808-550-5572

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
1		8 1L amber glass H2O	
1		1 Box of 50 sterile filters no preservative	
1		1 Box of 50 sterile syringes no preservative	
2	@504MOD	3 40ml amber glass vial no preservative	
2	@504MOD TB	2 40ml amber glass vial no preservative + H20	
4	@505LOW, @ML505	4 40ml amber glass vial 1drop thio (8%)	
2	@525PLUS PLUS TICS	2 1L amber glass 2ml of 6N HCl	UN1789
2	@625A_Physis, @625PAH_Physis	4 1L amber glass 625-A_nopres	
2	@625BN_Physis	4 1L amber glass 625-BN_no pres	
2	@8260SLO PLUS TICS TB, @VOASDWA PLUS TICS TB	4 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
2	@8260SLO PLUS TICS, @VOASDWA PLUS TICS	6 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
2	@ICPMS	1 500ml acid poly 2ml HNO3 (18%) rectangular bottle	UN2031
2	@ICPMS, Mercury, Calcium Total ICAP, Iron Total ICAP, Magnesium Tot ICAP, Manganese Total ICAP, Potassium Total ICAP, Sodium Total ICA	1 500ml acid poly 2ml HNO3 (18%)	UN2031
2	@MTBE-524.3(SIM)	4 40 ml amb glass+AA+Maleic Acid 25 mg AA + Maleic Acid	UN2215
2	@MTBE-524.3(SIM) TB, @TBA-524.3(SIM) TB	2 4 40ml amber glass vial 25 mg AA + Maleic Acid + H20	UN2215
2	8015 Gas	3 40ml amber glass vial 8015 Gas ~~no preservative~~ + 1:1 HCL	
2	8015 Gas Travel Blank	2 40ml amber glass vial GAS_TB 4drops of 1:1 HCL + H2O	UN1789
2	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
2	Bromide by 300.0	1 60mL poly 0.6mL 1% EDA solution	
2	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
2	Ethanol in Water by 1671_ELLI	2 40ml amber glass vial Ethanol_4 drops 6N HCL 36%	
2	Fluoride	1 250 ml poly FLUORIDE_no preservative	

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formerly MWH Laboratories

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Kit Order for Honolulu Board of Water Supply

Debbie.L.Frank is your Eurofins Eaton Analytical Project Manager

DH-43 pg 2.

Note: Sampler Please return this paper with your samples

Kit #: 103597
Created By: DEB
Deliver By: 01/05/2015
STG: Bottle Orders
Ice Type: G

Client ID: HONOLULU
Project Code: RED-HILL Bottle Orders
Group Name: Monitoring Wells Expanded+
PO#/JOB#: C14564101 exp 021315

Ship Sample Kits to
Kennedy Jenks
3375 Koapaka Street, Suite F227
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Attn: Regina Souza
Phone: 808-748-5082
Fax: 808-550-5572

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
2	Lead dissolved ICAP/MS	1 500ml poly no preservative	
2	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	
4	TPH 8015 Diesel and Motor Oil, TPH 8015 Jet Fuel 8	4 1L amber glass no preservative 5	
4	TPH 8015 Jet Fuel 5	2 1L amber glass no preservative_JF5 3	

Comments

LABEL OUTSIDE OF KITS WITH SITE ID. 1/_ as needed

1 Site including EB and TB Per cooler set
Subcontracted test - use 60ml unpreserved voa vials instead of 40ml * 3 ea
Subcontracted testing is for OrganoLead (EMAX)

Syringe and filters - reduce to just enough for 3 samples - 3 each Large Volume Syringes, and 9 each Metals filters for dissolved Metals (large Volume, 0.45u). OBTAIN from Metals Group

SAMPLER - filter at least 200mls of sample into Lead, dissolved 500ml poly
sample can be preserved in the lab at receipt.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

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1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 515305
Project: RED-HILL
Group: Monitoring Wells Expanded+

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Folder Comments

Revised report to change the units for TPH Diesel and Motor Oil from ug/L to the correct mg/L.
L. Geddes 4/12/22

Analytical results for 8015 Gas, Diesel, Motor Oil, Jet Fuel 5, Jet Fuel 8 and Organic Lead are submitted by Emax Laboratories, Inc. Torrance, CA, CA Certification No. 02116CA Analytical Results for Ethanol are submitted by Eurofins Lancaster Laboratories Analytical results for EPA 625PAH, 625Acid and 625BNA are submitted by Physis Environmental Laboratories, Inc. Anaheim, CA CA ELAP #2769

See 522639 for re-samepls for Dieldrin, Aldrin, and Toxaphene
20150228003 DH-43 is associated with original event reported on 515305 201501090270 DH-43 (MOANALUA)
201500380034 DUP DH-43 is performed for verification

Tentatively Identified Compounds (TICs)

201501090270 524.2 TICs None Detected

201501090272 524.2 TICs None Detected

201501090270 525.2 TICs None Detected

201501100016 8260 TICs None Detected

201501100017 8260 TICs None Detected

(505 - Chlorinated Pesticides) 505LOW for Low Level reporting for Aldrin, Dieldrin, Toxaphene
Low Level QC was not prepared with the 505 samples, only Drinking water RL reporting is avaliable for these analytes. 505LOW is cancelled. See Re-samples reported on 522639 for 505LOW (EAL).

COC Deviation
DUP CWRM - Organic Lead, dissolved Lead, and 625 testing added per communciation with Janice Marsters 011515.

8260

- Carbon Disulfide is an artifact of the Thiosulfate preservative. See 524.2 for results.
- Vinyl Acetate Low Bias QC. Vinyl Acetate is not a RED-HILL/Albuquerque target analyte. Data is not reported. Re-sample is not expected.

525.2
- Diazinon (qualitative) Low Bias QC. Diazinon (qualitative) is not a RED-HILL/Albuquerque target analyte. Data is not reported. Re-sample is not expected.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Comments

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Project: RED-HILL
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630 South Beretania Street
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Flags Legend:

L4 - The associated blank spike recovery was below method acceptance limits.

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

MC - Matrix spike recovery was high; the associated blank spike recovery was acceptable. MS/MSD RPD met acceptance criteria.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

VC - CCV is high biased, ND data are reportable as per TNI V1M4 1.7.2.e).i.

The Comments Report may be blank if there are no comments for this report.

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
01/09/2015 1141

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201501090270	**DH-43 (MOANALUA)**				
01/12/2015 16:01	Alkalinity in CaCO3 units		110		mg/L	2
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		140		mg/L	2
01/13/2015 23:41	Bromide		560		ug/L	10
01/12/2015 20:05	Cadmium Total ICAP/MS		1.2	5	ug/L	0.5
01/10/2015 1:59	Calcium Total ICAP		35		mg/L	1
01/12/2015 14:19	Chloride		150	250	mg/L	5
01/12/2015 20:05	Chromium Total ICAP/MS		2.4	100	ug/L	1
01/09/2015 16:24	Fluoride		0.097	4	mg/L	0.05
01/10/2015 1:59	Iron Total ICAP		0.10	0.3	mg/L	0.02
01/12/2015 20:05	Lead Total ICAP/MS		5.0	15	ug/L	0.5
01/10/2015 1:59	Magnesium Total ICAP		39		mg/L	0.1
01/10/2015 1:59	Manganese Total ICAP		0.0074	0.05	mg/L	0.002
01/09/2015 12:18	Nitrate as Nitrogen by IC		0.68	10	mg/L	0.2
01/12/2015 16:01	PH (H3=past HT not compliant)		7.6		Units	0.1
01/10/2015 1:59	Potassium Total ICAP		1.8		mg/L	1
01/10/2015 1:59	Sodium Total ICAP		65		mg/L	1
01/12/2015 16:01	Specific Conductance, 25 C		810		umho/cm	2
01/09/2015 12:18	Sulfate		38	250	mg/L	1
01/13/2015 15:11	Total Dissolved Solids (TDS)		490	500	mg/L	10
01/12/2015 20:05	Zinc Total ICAP/MS		480	5000	ug/L	20
	201501090271	**Equipment Blank DH-43**				
01/12/2015 22:23	Chromium Total ICAP/MS		2.1	100	ug/L	1
01/12/2015 22:23	Copper Total ICAP/MS		4.8	1300	ug/L	2
01/12/2015 22:23	Zinc Total ICAP/MS		38	5000	ug/L	20

SUMMARY OF POSITIVE DATA ONLY

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DH-43 (MOANALUA) (201501090270)						**Sampled on 01/07/2015 1230**		
			EPA 200.8 - ICPMS Metals					
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Cadmium Total ICAP/MS	1.2	ug/L	0.5	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Chromium Total ICAP/MS	2.4	ug/L	1	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015 19:46	814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Lead Total ICAP/MS	5.0	ug/L	0.5	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/21/2015 19:12	815528	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Zinc Total ICAP/MS	480	ug/L	20	1
			EPA 200.7 - ICP Metals					
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Calcium Total ICAP	35	mg/L	1	1
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Iron Total ICAP	0.10	mg/L	0.02	1
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Magnesium Total ICAP	39	mg/L	0.1	1
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Manganese Total ICAP	0.0074	mg/L	0.002	1
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Potassium Total ICAP	1.8	mg/L	1	1
1/9/2015	01/10/2015 1:59	813506	(EPA 200.7)	Sodium Total ICAP	65	mg/L	1	1
			EPA 245.1 - Mercury Total					
1/12/2015	01/13/2015 12:04	814027	(EPA 245.1)	Mercury	ND	ug/L	0.2	1
			SM2330B - Carbonate as CO3, Calculated					
	01/13/2015 22:30		(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
			SM2330B - Bicarb.Alkalinity as HCO3,calc					
	01/13/2015 12:09		(SM2330B)	Bicarb.Alkalinity as HCO3calc	140	mg/L	2	1
			EPA 505 - Organochlorine Pesticides/PCBs					
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Aldrin	ND	ug/L	0.01	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Chlordane	ND	ug/L	0.1	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Endrin	ND	ug/L	0.01	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1

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1/13/2015	01/14/2015	03:53	815087	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	03:53	815087	(EPA 505)	Tetrachlorometaxylene	98	%		1
		EPA 504.1 - EPA Method 504.1							
1/15/2015	01/15/2015	23:15	814739	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.04	1
1/15/2015	01/15/2015	23:15	814739	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
1/15/2015	01/15/2015	23:15	814739	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
1/15/2015	01/15/2015	23:15	814739	(EPA 504.1)	1,2-Dibromopropane	94	%		1
		EPA 525.2 - Semivolatiles by GCMS							
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Aldrin	ND	ug/L	0.05	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
1/18/2015	01/20/2015	17:13	815475	(EPA 525.2)	Benzo(g,h,i)Perylene	ND (LK)	ug/L	0.05	1

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1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Diazinon (Qualitative)	NR (L4)	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (VC,LK)	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1

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1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND (VC,LK)	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pentachlorophenol	ND	ug/L	1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	110	%		1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Acenaphthene-d10	72	%		1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chrysene-d12	76	%		1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Perylene-d12	95	%		1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Phenanthrene-d10	74	%		1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Triphenylphosphate	120	%		1
	EPA 300.0 - Nitrate, Nitrite by EPA 300.0							
	01/09/2015 12:18	813570	(EPA 300.0)	Nitrate as Nitrogen by IC	0.68	mg/L	0.2	2
	01/09/2015 12:18	813570	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.1	2
	EPA 300.0 - Disinfection ByProducts by 300.0							
	01/13/2015 23:41	814193	(EPA 300.0)	Bromide	560	ug/L	10	2
	EPA 300.0 - Chloride, Sulfate by EPA 300.0							
	01/12/2015 14:19	813813	(EPA 300.0)	Chloride	150	mg/L	5	5
	01/09/2015 12:18	813266	(EPA 300.0)	Sulfate	38	mg/L	1	2

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01/09/2015 1141

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		SW 8015B - (SUB)Gas Fraction Hydrocarbons						
1/14/2015	01/14/2015	16:46	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B - TPH 8015 Diesel and Motor Oil						
1/12/2015	01/15/2015	06:15	(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1
1/12/2015	01/15/2015	06:15	(SW 8015B)	TPH Motor Oil	ND	mg/L	0.057	1
		EPA 8015 - Jet Fuel 5 C8-C18						
1/12/2015	01/15/2015	06:15	(EPA 8015)	Jet Fuel	ND	mg/L	0.057	1
		EPA 625 - 625PAH in ug/L						
1/12/2015	01/29/2015	00:00	(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2-methylnaphthalene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	acenaphthene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	acenaphthylene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	anthracene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzo(a)pyrene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzo(b)fluoranthene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzo(k)fluoranthene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Biphenyl	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	chrysene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	fluoranthene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	fluorene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	naphthalene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	Perylene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	phenanthrene	ND	ug/L	0.005	1
1/12/2015	01/29/2015	00:00	(EPA 625)	pyrene	ND	ug/L	0.005	1
		EPA 8015 - Jet Fuel 8 C8-C18						
	01/15/2015	06:15	(EPA 8015)	Jet Fuel 8	ND	mg/L	0.057	1
		EPA 1671 - Ethanol						

Rounding on totals after summation.
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	01/17/2015	03:29	(EPA 1671)	Ethanol	ND	ug/L	2000	1
			EPA 625 - 625 Acid Extractable in ug/L					
1/12/2015	01/29/2015	00:00	(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2-chlorophenol	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2-methylphenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2-nitrophenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-chloro-3-methyl phenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-methylphenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-nitrophenol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzoic acid	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzyl alcohol	ND	ug/L	0.2	1
1/12/2015	01/29/2015	00:00	(EPA 625)	phenol	ND	ug/L	0.2	1
			EPA 625 - 625 Base Neutral Extractable in ug/L					
1/12/2015	01/29/2015	00:00	(EPA 625)	2-chloronaphthalene	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	2-nitroaniline	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	3-nitroaniline	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-Bromophenyl phenyl	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-chlorophenyl phenyl ...	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	4-nitroaniline	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	aniline	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	benzidine	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	bis(2-chloroethyl)ether	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	dibenzofuran	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	hexachloroethane	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	nitrobenzene	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
1/12/2015	01/29/2015	00:00	(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
			GFAA - Organic Lead					

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	01/16/2015 12:48		(GFAA)	Organic Lead	ND			1
		EPA 524.2 - Volatile Organics by GCMS						
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (LK)	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,4-Trichlorobenzene	ND (LK)	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	2,2-Dichloropropane	ND (LK)	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1

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1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Hexachlorobutadiene	ND (LK)	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Naphthalene	ND (LK)	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloroethane-d4	110	%		1

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1/14/2015	01/14/2015	18:00	814447	(EPA 524.2)	4-Bromofluorobenzene	98	%		1
1/14/2015	01/14/2015	18:00	814447	(EPA 524.2)	Toluene-d8	82	%		1
			EPA 524.3 - TBA by 524.3 SIM						
	01/15/2015	06:57	814520	(EPA 524.3)	Tert-Butyl Alcohol (TBA)	ND	ug/L	1	1
	01/15/2015	06:57	814520	(EPA 524.3)	1,4-Difluorobenzene	98	%		1
	01/15/2015	06:57	814520	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		1
			EPA 524.3 - MTBE by 524.3 SIM						
	01/15/2015	20:53	814769	(EPA 524.3)	Methyl-t-Butyl Ether (MTBE)	ND	ng/L	20	1
	01/15/2015	20:53	814769	(EPA 524.3)	1,4-Difluorobenzene	98	%		1
	01/15/2015	20:53	814769	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		1
			SM 4500F-C - Fluoride						
	01/09/2015	16:24	813439	(SM 4500F-C)	Fluoride	0.097	mg/L	0.05	1
			SM 2320B - Alkalinity in CaCO3 units						
	01/12/2015	16:01	813749	(SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
			E160.1/SM2540C - Total Dissolved Solids (TDS)						
1/13/2015	01/13/2015	15:11	813973	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	490	mg/L	10	1
			SM4500-HB - PH (H3=past HT not compliant)						
	01/12/2015	16:01	813751	(SM4500-HB)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
			SM2510B - Specific Conductance						
	01/12/2015	16:01	813752	(SM2510B)	Specific Conductance, 25 C	810	umho/cm	2	1
Equipment Blank DH-43 (201501090271)							**Sampled on 01/06/2015 1630**		
			EPA 200.8 - ICPMS Metals						
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Chromium Total ICAP/MS	2.1	ug/L	1	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Copper Total ICAP/MS	4.8	ug/L	2	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/21/2015	19:13	815528	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Zinc Total ICAP/MS	38	ug/L	20	1
			EPA 505 - Organochlorine Pesticides/PCBs						
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1

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Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Aldrin	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Chlordane	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Endrin	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Tetrachlorometaxylene	94	%		1
				SW 8015B - TPH 8015 Diesel and Motor Oil					
1/12/2015	01/15/2015	07:39		(SW 8015B)	TPH Diesel	ND	mg/L	0.024	1
1/12/2015	01/15/2015	07:39		(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
				EPA 8015 - Jet Fuel 5 C8-C18					
1/12/2015	01/15/2015	07:39		(EPA 8015)	Jet Fuel	ND	mg/L	0.052	1
				EPA 8015 - Jet Fuel 8 C8-C18					
	01/15/2015	07:39		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.052	1
				EPA 8260 - Volatile Organics by GCMS					
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	1,2-Dichloroethane-d4	107	%		1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	4-Bromofluorobenzene	98	%		1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Toluene-d8	93	%		1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
TRAVEL BLANK raw (DH-43) (201501090272)						**Sampled on 01/07/2015 1230**		
			EPA 504.1 - EPA Method 504.1					
1/15/2015	01/15/2015	23:51 814739	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.04	1
1/15/2015	01/15/2015	23:51 814739	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
1/15/2015	01/15/2015	23:51 814739	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
1/15/2015	01/15/2015	23:51 814739	(EPA 504.1)	1,2-Dibromopropane	100	%		1
			SW 8015B - (SUB)Gas Fraction Hydrocarbons					
1/12/2015	01/12/2015	16:39	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
			EPA 524.2 - Volatile Organics by GCMS					
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45 813908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1

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1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1

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1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2-Dichloroethane-d4	104	%		1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	4-Bromofluorobenzene	97	%		1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Toluene-d8	92	%		1
		EPA 524.3 - TBA by 524.3 SIM							
	01/15/2015	10:31	814520	(EPA 524.3)	Tert-Butyl Alcohol (TBA)	ND	ug/L	1	1
	01/15/2015	10:31	814520	(EPA 524.3)	1,4-Difluorobenzene	96	%		1
	01/15/2015	10:31	814520	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		1
		EPA 524.3 - MTBE by 524.3 SIM							
	01/16/2015	13:14	815095	(EPA 524.3)	Methyl-t-Butyl Ether (MTBE)	ND	ng/L	20	1
	01/16/2015	13:14	815095	(EPA 524.3)	1,4-Difluorobenzene	95	%		1
	01/16/2015	13:14	815095	(EPA 524.3)	methyl-t-butyl ether-d3	106	%		1
DH-43 (MOANALUA) (201501100016)							**Sampled on 01/07/2015 1230**		
		EPA 8260 - Volatile Organics by GCMS							
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2-Dibromo-3-chloropropane	ND (R7)	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2-Dibromoethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Acetone	ND	ug/L	10	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Benzene	ND	ug/L	0.5	1

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1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Di-isopropyl ether	ND	ug/L	3	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Styrene	ND (MC)	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	T-Butyl Alcohol	ND	ug/L	5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	tert-amyl Methyl Ether	ND	ug/L	3	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
01/09/2015 1141

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Vinyl Acetate	NR	ug/L	10	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	1,2-Dichloroethane-d4	110	%		1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	4-Bromofluorobenzene	98	%		1
1/14/2015	01/14/2015	18:00	814448	(EPA 8260)	Toluene-d8	82	%		1

TRAVEL BLANK raw (DH-43) (201501100017) **Sampled on 01/07/2015 1230**

EPA 8260 - Volatile Organics by GCMS

1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,2-Dibromoethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Acetone	ND	ug/L	10	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	21:45	813909	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1

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Samples Received on:
01/09/2015 1141

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	cis-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dichlorodifluoromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Di-isopropyl ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	T-Butyl Alcohol	ND	ug/L	5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	tert-amyl Methyl Ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Vinyl Acetate	NR	ug/L	10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dichloroethane-d4	104	%		1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	4-Bromofluorobenzene	97	%		1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Toluene-d8	92	%		1

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QC Ref # 813266 - Chloride, Sulfate by EPA 300.0 — **Analysis Date: 01/09/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: CYP

QC Ref # 813439 - Fluoride — **Analysis Date: 01/09/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: 6Q4

QC Ref # 813506 - ICP Metals — **Analysis Date: 01/10/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: NINA

QC Ref # 813570 - Nitrate, Nitrite by EPA 300.0 — **Analysis Date: 01/09/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: CYP

QC Ref # 813744 - ICPMS Metals — **Analysis Date: 01/12/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: SXK
201501090271 Equipment Blank DH-43 — Analyzed by: SXK

QC Ref # 813749 - Alkalinity in CaCO3 units — **Analysis Date: 01/12/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: 6Q4

QC Ref # 813751 - PH (H3=past HT not compliant) — **Analysis Date: 01/12/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: 6Q4

QC Ref # 813752 - Specific Conductance — **Analysis Date: 01/12/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: 6Q4

QC Ref # 813813 - Chloride, Sulfate by EPA 300.0 — **Analysis Date: 01/12/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: CYP

QC Ref # 813908 - Volatile Organics by GCMS — **Analysis Date: 01/12/2015**
201501090272 TRAVEL BLANK raw (DH-43) — Analyzed by: KCP

QC Ref # 813909 - Volatile Organics by GCMS — **Analysis Date: 01/12/2015**
201501090271 Equipment Blank DH-43 — Analyzed by: KCP
201501100017 TRAVEL BLANK raw (DH-43) — Analyzed by: KCP

QC Ref # 813973 - Total Dissolved Solids (TDS) — **Analysis Date: 01/13/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: JRF

QC Ref # 814027 - Mercury Total — **Analysis Date: 01/13/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: LHD

QC Ref # 814106 - ICPMS Metals — **Analysis Date: 01/14/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: SXK

QC Ref # 814193 - Disinfection ByProducts by 300.0 — **Analysis Date: 01/13/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: NJR

QC Ref # 814202 - Organochlorine Pesticides/PCBs — **Analysis Date: 01/10/2015**
201501090271 Equipment Blank DH-43 — Analyzed by: LRL

QC Ref # 814447 - Volatile Organics by GCMS — **Analysis Date: 01/14/2015**
201501090270 DH-43 (MOANALUA) — Analyzed by: KCP

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QC Ref # 814448 - Volatile Organics by GCMS — **Analysis Date: 01/14/2015**

201501100016	DH-43 (MOANALUA)	Analyzed by: KCP

QC Ref # 814520 - TBA by 524.3 SIM — **Analysis Date: 01/15/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: MCB
201501090272	TRAVEL BLANK raw (DH-43)	Analyzed by: MCB

QC Ref # 814739 - EPA Method 504.1 — **Analysis Date: 01/15/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: SZZ
201501090272	TRAVEL BLANK raw (DH-43)	Analyzed by: SZZ

QC Ref # 814769 - MTBE by 524.3 SIM — **Analysis Date: 01/15/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: MCB

QC Ref # 815087 - Organochlorine Pesticides/PCBs — **Analysis Date: 01/14/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: LRL

QC Ref # 815095 - MTBE by 524.3 SIM — **Analysis Date: 01/16/2015**

201501090272	TRAVEL BLANK raw (DH-43)	Analyzed by: MCB

QC Ref # 815475 - Semivolatiles by GCMS — **Analysis Date: 01/20/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: JWC

QC Ref # 815528 - ICPMS Metals — **Analysis Date: 01/21/2015**

201501090270	DH-43 (MOANALUA)	Analyzed by: AZS
201501090271	Equipment Blank DH-43	Analyzed by: AZS

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813266 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						**Analysis Date: 01/09/2015**			
LCS1	Chloride		25	24.1	mg/L	96	(90-110)		
LCS2	Chloride		25	24.2	mg/L	97	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.422	mg/L	84	(50-150)		
MS_201501090016	Chloride	ND	13	12.2	mg/L	95	(80-120)		
MSD_201501090016	Chloride	ND	13	12.2	mg/L	96	(80-120)	20	0.0
LCS1	Sulfate		50	50.9	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.0	mg/L	102	(90-110)	20	0.20
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.951	mg/L	95	(50-150)		
MRLLW	Sulfate		0.25	0.243	mg/L	97	(50-150)		
MS_201501090266	Sulfate	23	25	48.8	mg/L	105	(80-120)		
MS_201501090016	Sulfate	ND	25	25.8	mg/L	103	(80-120)		
MSD_201501090266	Sulfate	23	25	49.1	mg/L	106	(80-120)	20	0.61
MSD_201501090016	Sulfate	ND	25	25.9	mg/L	104	(80-120)	20	0.39
QC Ref# 813439 - Fluoride by SM 4500F-C						**Analysis Date: 01/09/2015**			
LCS1	Fluoride		1.0	1.06	mg/L	106	(81-116)		
LCS2	Fluoride		1.0	0.945	mg/L	95	(81-116)	20	12
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0507	mg/L	101	(50-150)		
MS_201501080280	Fluoride	0.60	1.0	1.63	mg/L	103	(80-120)		
MS_201501090002	Fluoride	0.26	1.0	1.26	mg/L	100	(80-120)		
MSD_201501090002	Fluoride	0.26	1.0	1.26	mg/L	100	(80-120)	20	0.0
MSD_201501080280	Fluoride	0.60	1.0	1.64	mg/L	104	(80-120)	20	0.61
QC Ref# 813506 - ICP Metals by EPA 200.7						**Analysis Date: 01/09/2015**			
LCS1	Calcium Total ICAP		50	49.8	mg/L	100	(85-115)		
LCS2	Calcium Total ICAP		50	49.2	mg/L	99	(85-115)	20	1.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.956	mg/L	96	(50-150)		
MS_201501090428	Calcium Total ICAP	98	50	147	mg/L	99	(70-130)		
MS2_201501090161	Calcium Total ICAP	120	50	167	mg/L	88	(70-130)		
MSD_201501090428	Calcium Total ICAP	98	50	142	mg/L	89	(70-130)	20	3.5
MSD2_201501090161	Calcium Total ICAP	120	50	170	mg/L	94	(70-130)	20	1.8
LCS1	Iron Total ICAP		5.0	5.09	mg/L	102	(85-115)		
LCS2	Iron Total ICAP		5.0	5.04	mg/L	101	(85-115)	20	0.99
MBLK	Iron Total ICAP			<0.01	mg/L				

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Iron Total ICAP		0.02	0.0189	mg/L	94	(50-150)		
MS_201501090428	Iron Total ICAP	ND	5.0	5.09	mg/L	102	(70-130)		
MS2_201501090161	Iron Total ICAP	ND	5.0	5.07	mg/L	101	(70-130)		
MSD_201501090428	Iron Total ICAP	ND	5.0	5.02	mg/L	100	(70-130)	20	1.4
MSD2_201501090161	Iron Total ICAP	ND	5.0	5.06	mg/L	101	(70-130)	20	0.20
LCS1	Magnesium Total ICAP		20	20.8	mg/L	104	(85-115)		
LCS2	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)	20	1.9
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0966	mg/L	97	(50-150)		
MS_201501090428	Magnesium Total ICAP	26	20	46.2	mg/L	103	(70-130)		
MS2_201501090161	Magnesium Total ICAP	35	20	53.5	mg/L	94	(70-130)		
MSD_201501090428	Magnesium Total ICAP	26	20	44.8	mg/L	96	(70-130)	20	3.1
MSD2_201501090161	Magnesium Total ICAP	35	20	54.1	mg/L	97	(70-130)	20	1.1
LCS1	Manganese Total ICAP		0.5	0.506	mg/L	101	(85-115)		
LCS2	Manganese Total ICAP		0.5	0.504	mg/L	101	(85-115)	20	0.40
MBLK	Manganese Total ICAP			<0.001	mg/L				
MRL_CHK	Manganese Total ICAP		0.002	0.00208	mg/L	104	(50-150)		
MS_201501090428	Manganese Total ICAP	ND	0.5	0.502	mg/L	100	(70-130)		
MS2_201501090161	Manganese Total ICAP	ND	0.5	0.502	mg/L	100	(70-130)		
MSD_201501090428	Manganese Total ICAP	ND	0.5	0.500	mg/L	100	(70-130)	20	0.40
MSD2_201501090161	Manganese Total ICAP	ND	0.5	0.505	mg/L	101	(70-130)	20	0.60
LCS1	Potassium Total ICAP		20	21.0	mg/L	105	(85-115)		
LCS2	Potassium Total ICAP		20	20.6	mg/L	103	(85-115)	20	1.9
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.993	mg/L	99	(50-150)		
MS_201501090428	Potassium Total ICAP	4.4	20	25.4	mg/L	105	(70-130)		
MS2_201501090161	Potassium Total ICAP	2.5	20	23.5	mg/L	105	(70-130)		
MSD_201501090428	Potassium Total ICAP	4.4	20	25.1	mg/L	103	(70-130)	20	1.2
MSD2_201501090161	Potassium Total ICAP	2.5	20	23.3	mg/L	104	(70-130)	20	0.86
LCS1	Sodium Total ICAP		50	50.4	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	49.7	mg/L	99	(85-115)	20	1.4
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.979	mg/L	98	(50-150)		
MS_201501090428	Sodium Total ICAP	51	50	100	mg/L	99	(70-130)		
MS2_201501090161	Sodium Total ICAP	68	50	115	mg/L	94	(70-130)		
MSD_201501090428	Sodium Total ICAP	51	50	98.6	mg/L	96	(70-130)	20	1.4
MSD2_201501090161	Sodium Total ICAP	68	50	114	mg/L	92	(70-130)	20	0.87

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813570 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						**Analysis Date: 01/09/2015**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0474	mg/L	95	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0123	mg/L	98	(50-150)		
MS_201501090266	Nitrate as Nitrogen by IC	1.8	1.3	3.18	mg/L	111	(80-120)		
MS_201501090016	Nitrate as Nitrogen by IC	ND	1.3	1.22	mg/L	98	(80-120)		
MSD_201501090016	Nitrate as Nitrogen by IC	ND	1.3	1.23	mg/L	98	(80-120)	20	0.82
MSD_201501090266	Nitrate as Nitrogen by IC	1.8	1.3	3.20	mg/L	112	(80-120)	20	0.63
LCS1	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0475	mg/L	95	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0128	mg/L	102	(50-150)		
MS_201501090016	Nitrite Nitrogen by IC	ND	0.5	0.511	mg/L	102	(80-120)		
MS_201501090266	Nitrite Nitrogen by IC	ND	0.5	0.329	mg/L	**66**	(80-120)		
MSD_201501090016	Nitrite Nitrogen by IC	ND	0.5	0.516	mg/L	103	(80-120)	20	0.97
MSD_201501090266	Nitrite Nitrogen by IC	ND	0.5	0.332	mg/L	**67**	(80-120)	20	0.91
QC Ref# 813744 - ICPMS Metals by EPA 200.8						**Analysis Date: 01/12/2015**			
LCS1	Antimony Total ICAP/MS		50	48.3	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.977	ug/L	98	(50-150)		
MS_201501080155	Antimony Total ICAP/MS	ND	50	49.6	ug/L	99	(70-130)		
MS2_201501080165	Antimony Total ICAP/MS	ND	50	51.0	ug/L	101	(70-130)		
MSD_201501080155	Antimony Total ICAP/MS	ND	50	52.4	ug/L	105	(70-130)	20	5.5
MSD2_201501080165	Antimony Total ICAP/MS	ND	50	50.2	ug/L	100	(70-130)	20	1.6
LCS1	Arsenic Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	1.9
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201501080155	Arsenic Total ICAP/MS	ND	20	22.3	ug/L	111	(70-130)		
MS2_201501080165	Arsenic Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)		
MSD_201501080155	Arsenic Total ICAP/MS	ND	20	21.0	ug/L	104	(70-130)	20	6.0
MSD2_201501080165	Arsenic Total ICAP/MS	ND	20	20.8	ug/L	103	(70-130)	20	0.48
LCS1	Beryllium Total ICAP/MS		5.0	4.88	ug/L	98	(85-115)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Beryllium Total ICAP/MS		5.0	4.99	ug/L	100	(85-115)	20	2.2
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201501080155	Beryllium Total ICAP/MS	ND	5.0	5.36	ug/L	107	(70-130)		
MS2_201501080165	Beryllium Total ICAP/MS	ND	5.0	5.30	ug/L	105	(70-130)		
MSD_201501080155	Beryllium Total ICAP/MS	ND	5.0	5.35	ug/L	107	(70-130)	20	0.19
MSD2_201501080165	Beryllium Total ICAP/MS	ND	5.0	5.27	ug/L	104	(70-130)	20	0.57
LCS1	Cadmium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	2.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.484	ug/L	97	(50-150)		
MS_201501080155	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MS2_201501080165	Cadmium Total ICAP/MS	ND	20	21.4	ug/L	107	(70-130)		
MSD_201501080155	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	6.1
MSD2_201501080165	Cadmium Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)	20	1.4
LCS1	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.17	ug/L	117	(50-150)		
MS_201501080155	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201501080165	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501080155	Chromium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	3.9
MSD2_201501080165	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201501080155	Copper Total ICAP/MS	12	100	113	ug/L	101	(70-130)		
MS2_201501080165	Copper Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MSD_201501080155	Copper Total ICAP/MS	12	100	118	ug/L	105	(70-130)	20	4.3
MSD2_201501080165	Copper Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95
LCS1	Lead Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	0.51
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.534	ug/L	107	(50-150)		
MS_201501080155	Lead Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MS2_201501080165	Lead Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201501080155	Lead Total ICAP/MS	ND	20	20.9	ug/L	103	(70-130)	20	5.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501080165	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	0.49
LCS1	Nickel Total ICAP/MS		50	49.0	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.0	ug/L	98	(85-115)	20	0.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.10	ug/L	102	(50-150)		
MS_201501080155	Nickel Total ICAP/MS	ND	50	48.8	ug/L	97	(70-130)		
MS2_201501080165	Nickel Total ICAP/MS	ND	50	52.0	ug/L	104	(70-130)		
MSD_201501080155	Nickel Total ICAP/MS	ND	50	50.8	ug/L	101	(70-130)	20	4.0
MSD2_201501080165	Nickel Total ICAP/MS	ND	50	51.0	ug/L	102	(70-130)	20	1.9
LCS1	Selenium Total ICAP/MS		20	22.2	ug/L	111	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.1	ug/L	106	(85-115)	20	5.5
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.79	ug/L	116	(50-150)		
MS_201501080155	Selenium Total ICAP/MS	ND	20	23.1	ug/L	112	(70-130)		
MS2_201501080165	Selenium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201501080155	Selenium Total ICAP/MS	ND	20	21.6	ug/L	104	(70-130)	20	6.7
MSD2_201501080165	Selenium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	2.0
LCS1	Thallium Total ICAP/MS		20	19.1	ug/L	96	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.53
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.984	ug/L	98	(50-150)		
MS_201501080155	Thallium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)		
MS2_201501080165	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_201501080155	Thallium Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)	20	9.8
MSD2_201501080165	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Zinc Total ICAP/MS		100	97.7	ug/L	98	(85-115)	20	0.71
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.0	ug/L	100	(50-150)		
MS_201501080155	Zinc Total ICAP/MS	ND	100	110	ug/L	104	(70-130)		
MS2_201501080165	Zinc Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501080155	Zinc Total ICAP/MS	ND	100	110	ug/L	105	(70-130)	20	0.91
MSD2_201501080165	Zinc Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	0.94
QC Ref# 813749 - Alkalinity in CaCO3 units by SM 2320B						**Analysis Date: 01/12/2015**			
LCS1	Alkalinity in CaCO3 units		100	99.7	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)	20	0.20
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.04	mg/L	102	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090266	Alkalinity in CaCO3 units	87	100	187	mg/L	100	(80-120)		
MS_201501090270	Alkalinity in CaCO3 units	110	100	213	mg/L	101	(80-120)		
MSD_201501090270	Alkalinity in CaCO3 units	110	100	212	mg/L	100	(80-120)	20	0.47
MSD_201501090266	Alkalinity in CaCO3 units	87	100	187	mg/L	100	(80-120)	20	0.0
QC Ref# 813751 - PH (H3=past HT not compliant) by SM4500-HB							**Analysis Date: 01/12/2015**		
DUP_201501090270	PH (H3=past HT not compliant)	7.6	0.01	7.65	Units		(0-20)	20	0.26
DUP_201501090266	PH (H3=past HT not compliant)	7.6	0.01	7.59	Units		(0-20)	20	0.26
LCS1	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)	20	0.0
QC Ref# 813752 - Specific Conductance by SM2510B							**Analysis Date: 01/12/2015**		
DUP1_201501090266	Specific Conductance	370	2	374	umho/cm		(0-20)	20	0.75
DUP1_201501090270	Specific Conductance	810	2	813	umho/cm		(0-20)	20	0.48
LCS1	Specific Conductance		1000	1000	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1000	umho/cm	100	(95-105)	20	0.0
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.60	umho/cm	98	(50-150)		
QC Ref# 813813 - Chloride, Sulfate by EPA 300.0 by EPA 300.0							**Analysis Date: 01/12/2015**		
LCS1	Chloride		25	25.9	mg/L	104	(90-110)		
LCS2	Chloride		25	24.6	mg/L	98	(90-110)	20	5.2
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.410	mg/L	82	(50-150)		
MS_201501070009	Chloride	ND	13	12.7	mg/L	98	(80-120)		
MSD_201501070009	Chloride	ND	13	12.8	mg/L	99	(80-120)	20	0.78
LCS1	Sulfate		50	54.0	mg/L	108	(90-110)		
LCS2	Sulfate		50	51.6	mg/L	103	(90-110)	20	4.5
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.962	mg/L	96	(50-150)		
MRLLW	Sulfate		0.25	0.257	mg/L	103	(50-150)		
MS_201501120069	Sulfate	35	25	87.4	mg/L	104	(80-120)		
MS_201501070009	Sulfate	ND	25	26.1	mg/L	104	(80-120)		
MSD_201501070009	Sulfate	ND	25	26.2	mg/L	104	(80-120)	20	0.38
MSD_201501120069	Sulfate	35	25	87.4	mg/L	104	(80-120)	20	0.0
QC Ref# 813908 - Volatile Organics by GCMS by EPA 524.2							**Analysis Date: 01/12/2015**		
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.39	ug/L	108	(70-130)	20	6.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	5.13	ug/L	103	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.69	ug/L	114	(70-130)	20	10
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.620	ug/L	124	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.82	ug/L	116	(70-130)	20	2.8
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.15	ug/L	103	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.11	ug/L	102	(70-130)	20	0.78
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1-Dichloroethane		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.18	ug/L	104	(70-130)	20	5.0
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.10	ug/L	102	(70-130)	20	6.7
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.18	ug/L	104	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.57	ug/L	111	(70-130)	20	7.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.640	ug/L	128	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	6.53	ug/L	**131**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	6.58	ug/L	**132**	(70-130)	20	0.76
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.82	ug/L	116	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.72	ug/L	114	(70-130)	20	1.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	6.01	ug/L	120	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	6.06	ug/L	121	(70-130)	20	0.83
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.87	ug/L	117	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,4-Trimethylbenzene		5.0	6.14	ug/L	123	(70-130)	20	4.5
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.22	ug/L	104	(70-130)	20	4.1
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			95.0	%	95	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			95.8	%	96	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.14	ug/L	103	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.77	ug/L	115	(70-130)	20	12
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.79	ug/L	116	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	6.15	ug/L	123	(70-130)	20	6.0
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	1,3-Dichloropropane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.33	ug/L	107	(70-130)	20	8.0
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.430	ug/L	86	(50-150)		
LCS1	2,2-Dichloropropane		5.0	5.06	ug/L	101	(70-130)		
LCS2	2,2-Dichloropropane		5.0	5.13	ug/L	103	(70-130)	20	1.4
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	2-Butanone (MEK)		50	52.2	ug/L	105	(70-130)		
LCS2	2-Butanone (MEK)		50	58.7	ug/L	117	(70-130)	20	12
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.99	ug/L	100	(50-150)		
LCS1	4-Bromofluorobenzene (S)			97.0	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			109	%	109	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	55.0	ug/L	110	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	4-Methyl-2-Pentanone (MIBK)		50	59.2	ug/L	118	(70-130)	20	7.4
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.37	ug/L	107	(50-150)		
LCS1	Benzene		5.0	4.91	ug/L	98	(70-130)		
LCS2	Benzene		5.0	5.31	ug/L	106	(70-130)	20	7.8
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5.0	5.01	ug/L	100	(70-130)		
LCS2	Bromobenzene		5.0	5.33	ug/L	107	(70-130)	20	6.2
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromochloromethane		5.0	5.09	ug/L	102	(70-130)		
LCS2	Bromochloromethane		5.0	5.34	ug/L	107	(70-130)	20	4.8
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.410	ug/L	82	(50-150)		
LCS1	Bromodichloromethane		5.0	5.08	ug/L	102	(70-130)		
LCS2	Bromodichloromethane		5.0	5.43	ug/L	109	(70-130)	20	6.7
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Bromoethane		5.0	5.06	ug/L	101	(70-130)		
LCS2	Bromoethane		5.0	5.24	ug/L	105	(70-130)	20	3.5
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	Bromoform		5.0	5.00	ug/L	100	(70-130)		
LCS2	Bromoform		5.0	5.06	ug/L	101	(70-130)	20	1.2
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.720	ug/L	144	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.29	ug/L	106	(70-130)	20	8.5
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Carbon disulfide		5.0	5.01	ug/L	100	(70-130)		
LCS2	Carbon disulfide		5.0	5.34	ug/L	107	(70-130)	20	6.4
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.690	ug/L	138	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.12	ug/L	102	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.36	ug/L	107	(70-130)	20	4.6
MBLK	Carbon Tetrachloride			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 515305

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Carbon Tetrachloride		0.5	0.650	ug/L	130	(50-150)		
LCS1	Chlorobenzene		5.0	5.50	ug/L	110	(70-130)		
LCS2	Chlorobenzene		5.0	5.87	ug/L	117	(70-130)	20	6.5
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.12	ug/L	102	(70-130)	20	2.0
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.690	ug/L	138	(50-150)		
LCS1	Chloroethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	Chloroethane		5.0	5.61	ug/L	112	(70-130)	20	6.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.11	ug/L	102	(70-130)	20	4.4
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.430	ug/L	86	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.93	ug/L	119	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	6.47	ug/L	129	(70-130)	20	8.7
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.580	ug/L	116	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	4.96	ug/L	99	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.36	ug/L	107	(70-130)	20	7.8
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.08	ug/L	102	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.19	ug/L	104	(70-130)	20	2.1
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.770	ug/L	**154**	(50-150)		
LCS1	Dibromomethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	Dibromomethane		5.0	5.38	ug/L	108	(70-130)	20	7.1
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	6.28	ug/L	126	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	7.13	ug/L	**143**	(70-130)	20	13
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Dichloromethane		5.0	5.31	ug/L	106	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dichloromethane		5.0	5.46	ug/L	109	(70-130)	20	2.8
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Di-isopropyl ether		5.0	5.12	ug/L	102	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.41	ug/L	108	(70-130)	20	5.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.520	ug/L	104	(50-150)		
LCS1	Ethyl benzene		5.0	5.14	ug/L	103	(70-130)		
LCS2	Ethyl benzene		5.0	5.53	ug/L	111	(70-130)	20	7.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.620	ug/L	124	(50-150)		
LCS1	Hexachlorobutadiene		5.0	6.20	ug/L	124	(70-130)		
LCS2	Hexachlorobutadiene		5.0	6.17	ug/L	123	(70-130)	20	0.49
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Isopropylbenzene		5.0	5.88	ug/L	118	(70-130)		
LCS2	Isopropylbenzene		5.0	5.95	ug/L	119	(70-130)	20	1.2
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	m,p-Xylenes		10	10.5	ug/L	105	(70-130)		
LCS2	m,p-Xylenes		10	11.7	ug/L	117	(70-130)	20	11
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.05	ug/L	105	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.690	ug/L	138	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.33	ug/L	107	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.49	ug/L	110	(70-130)	20	3.0
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.49	ug/L	110	(70-130)	20	2.8
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.570	ug/L	114	(50-150)		
LCS1	Naphthalene		5.0	7.06	ug/L	**141**	(70-130)		
LCS2	Naphthalene		5.0	7.05	ug/L	**141**	(70-130)	20	0.14
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Butylbenzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	n-Butylbenzene		5.0	5.50	ug/L	110	(70-130)	20	3.1

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	n-Propylbenzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	n-Propylbenzene		5.0	5.83	ug/L	117	(70-130)	20	9.0
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.66	ug/L	113	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.92	ug/L	118	(70-130)	20	4.5
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.11	ug/L	102	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.16	ug/L	103	(70-130)	20	0.97
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.500	ug/L	100	(50-150)		
LCS1	o-Xylene		5.0	4.81	ug/L	96	(70-130)		
LCS2	o-Xylene		5.0	5.47	ug/L	109	(70-130)	20	13
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.690	ug/L	138	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.22	ug/L	104	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.42	ug/L	108	(70-130)	20	3.8
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.470	ug/L	94	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.42	ug/L	108	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.66	ug/L	113	(70-130)	20	4.3
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5.0	6.29	ug/L	126	(70-130)		
LCS2	p-Isopropyltoluene		5.0	6.59	ug/L	**132**	(70-130)	20	4.7
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.420	ug/L	84	(50-150)		
LCS1	sec-Butylbenzene		5.0	6.41	ug/L	128	(70-130)		
LCS2	sec-Butylbenzene		5.0	6.74	ug/L	**135**	(70-130)	20	5.0
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Styrene		5.0	4.49	ug/L	90	(70-130)		
LCS2	Styrene		5.0	5.14	ug/L	103	(70-130)	20	14
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.580	ug/L	116	(50-150)		

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	tert-amyl Methyl Ether		5.0	5.59	ug/L	112	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	5.92	ug/L	118	(70-130)	20	5.7
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.590	ug/L	118	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.89	ug/L	98	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.15	ug/L	103	(70-130)	20	5.2
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.530	ug/L	106	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.96	ug/L	119	(70-130)		
LCS2	tert-Butylbenzene		5.0	6.19	ug/L	124	(70-130)	20	3.8
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.35	ug/L	107	(70-130)	20	9.6
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5.0	4.86	ug/L	97	(70-130)		
LCS2	Toluene		5.0	5.31	ug/L	106	(70-130)	20	8.8
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			90.4	%	90	(70-130)		
MRL_CHK	Toluene-d8 (S)			97.6	%	98	(70-130)		
MRLLW	Toluene-d8 (S)			96.8	%	97	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.00	ug/L	100	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.35	ug/L	107	(70-130)	20	6.8
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.480	ug/L	96	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	4.77	ug/L	95	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.35	ug/L	107	(70-130)	20	12
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.670	ug/L	134	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.40	ug/L	108	(70-130)	20	11
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5.0	4.79	ug/L	96	(70-130)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Trichlorofluoromethane		5.0	5.02	ug/L	100	(70-130)	20	4.7
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.73	ug/L	95	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.23	ug/L	105	(70-130)	20	10
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.480	ug/L	96	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.35	ug/L	107	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.80	ug/L	116	(70-130)	20	8.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.580	ug/L	116	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.310	ug/L	124	(50-150)		
QC Ref# 813909 - Volatile Organics by GCMS by EPA 8260						**Analysis Date: 01/12/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.39	ug/L	108	(70-130)	20	6.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.630	ug/L	126	(50-150)		
MS_201501090585	1,1,1,2-Tetrachloroethane	ND	10	11.6	ug/L	116	(70-130)		
MSD_201501090585	1,1,1,2-Tetrachloroethane	ND	10	10.8	ug/L	109	(70-130)	20	6.2
LCS1	1,1,1-Trichloroethane		5.0	5.13	ug/L	103	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.69	ug/L	114	(70-130)	20	10
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.620	ug/L	124	(50-150)		
MS_201501090585	1,1,1-Trichloroethane	ND	10	12.3	ug/L	123	(70-130)		
MSD_201501090585	1,1,1-Trichloroethane	ND	10	11.9	ug/L	119	(70-130)	20	3.3
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.82	ug/L	116	(70-130)	20	2.8
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201501090585	1,1,2,2-Tetrachloroethane	ND	10	11.8	ug/L	118	(70-130)		
MSD_201501090585	1,1,2,2-Tetrachloroethane	ND	10	11.6	ug/L	117	(70-130)	20	0.85
LCS1	1,1,2-Trichloroethane		5.0	5.15	ug/L	103	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.11	ug/L	102	(70-130)	20	0.78
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201501090585	1,1,2-Trichloroethane	ND	10	11.7	ug/L	117	(70-130)		
MSD_201501090585	1,1,2-Trichloroethane	ND	10	11.1	ug/L	111	(70-130)	20	5.3
LCS1	1,1-Dichloroethane		5.0	4.93	ug/L	99	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1-Dichloroethane		5.0	5.18	ug/L	104	(70-130)	20	5.0
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201501090585	1,1-Dichloroethane	ND	10	11.3	ug/L	113	(70-130)		
MSD_201501090585	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	4.5
LCS1	1,1-Dichloroethylene		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.10	ug/L	102	(70-130)	20	6.7
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
MS_201501090585	1,1-Dichloroethylene	ND	10	12.5	ug/L	125	(70-130)		
MSD_201501090585	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)	20	7.5
LCS1	1,2,3-Trichloropropane		5.0	5.82	ug/L	116	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.72	ug/L	114	(70-130)	20	1.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
MS_201501090585	1,2,3-Trichloropropane	ND	10	12.0	ug/L	120	(70-130)		
MSD_201501090585	1,2,3-Trichloropropane	ND	10	11.3	ug/L	113	(70-130)	20	6.0
LCS1	1,2-Dibromo-3-chloropropane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,2-Dibromo-3-chloropropane		5.0	5.04	ug/L	101	(70-130)	20	1.8
MBLK	1,2-Dibromo-3-chloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.5	0.650	ug/L	130	(50-150)		
MS_201501090585	1,2-Dibromo-3-chloropropane	ND	10	11.3	ug/L	113	(70-130)		
MSD_201501090585	1,2-Dibromo-3-chloropropane	ND	10	10.7	ug/L	107	(70-130)	20	5.5
LCS1	1,2-Dibromoethane		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,2-Dibromoethane		5.0	5.47	ug/L	109	(70-130)	20	8.2
MBLK	1,2-Dibromoethane			<0.5	ug/L				
MRL_CHK	1,2-Dibromoethane		0.5	0.640	ug/L	128	(50-150)		
MS_201501090585	1,2-Dibromoethane	ND	10	11.6	ug/L	117	(70-130)		
MSD_201501090585	1,2-Dibromoethane	ND	10	10.7	ug/L	107	(70-130)	20	8.9
LCS1	1,2-Dichloroethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.22	ug/L	104	(70-130)	20	4.1
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201501090585	1,2-Dichloroethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201501090585	1,2-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	4.6
LCS1	1,2-Dichloroethane-d4 (S)			95.0	%	95	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			95.8	%	96	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MS_201501090585	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
MSD_201501090585	1,2-Dichloroethane-d4 (S)			94.2	%	94	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.14	ug/L	103	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.77	ug/L	115	(70-130)	20	12
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.420	ug/L	84	(50-150)		
MS_201501090585	1,2-Dichloropropane	ND	10	12.3	ug/L	123	(70-130)		
MSD_201501090585	1,2-Dichloropropane	ND	10	11.6	ug/L	116	(70-130)	20	5.9
LCS1	2-Butanone (MEK)		50	52.2	ug/L	105	(70-130)		
LCS2	2-Butanone (MEK)		50	58.7	ug/L	117	(70-130)	20	12
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.99	ug/L	100	(50-150)		
MS_201501090585	2-Butanone (MEK)	ND	100	116	ug/L	116	(70-130)		
MSD_201501090585	2-Butanone (MEK)	ND	100	118	ug/L	118	(70-130)	20	1.7
LCS1	2-Hexanone		50	51.0	ug/L	102	(70-130)		
LCS2	2-Hexanone		50	55.3	ug/L	111	(70-130)	20	8.1
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5.0	6.39	ug/L	128	(50-150)		
MS_201501090585	2-Hexanone	ND	100	120	ug/L	120	(70-130)		
MSD_201501090585	2-Hexanone	ND	100	113	ug/L	113	(70-130)	20	6.0
LCS1	4-Bromofluorobenzene (S)			97.0	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			109	%	109	(70-130)		
MS_201501090585	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MSD_201501090585	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	55.0	ug/L	110	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	59.2	ug/L	118	(70-130)	20	7.4
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.37	ug/L	107	(50-150)		
MS_201501090585	4-Methyl-2-Pentanone (MIBK)	ND	100	126	ug/L	127	(70-130)		
MSD_201501090585	4-Methyl-2-Pentanone (MIBK)	ND	100	120	ug/L	120	(70-130)	20	5.7
LCS1	Acetone		50	56.0	ug/L	112	(70-130)		
LCS2	Acetone		50	58.7	ug/L	117	(70-130)	20	4.7
MBLK	Acetone			<5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Acetone		5.0	6.81	ug/L	136	(50-150)		
MS_201501090585	Acetone	ND	100	127	ug/L	127	(70-130)		
MSD_201501090585	Acetone	ND	100	120	ug/L	120	(70-130)	20	5.7
LCS1	Acrylonitrile (Screen)		5.0	4.75	ug/L	95	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	5.65	ug/L	113	(70-130)	20	17
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MRL_CHK	Acrylonitrile (Screen)		0.5	0.700	ug/L	140	(15-150)		
MS_201501090585	Acrylonitrile (Screen)	ND	10	11.7	ug/L	117	(70-130)		
MSD_201501090585	Acrylonitrile (Screen)	ND	10	10.6	ug/L	106	(70-130)	20	9.9
LCS1	Benzene		5.0	4.91	ug/L	98	(70-130)		
LCS2	Benzene		5.0	5.31	ug/L	106	(70-130)	20	7.8
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
MS_201501090585	Benzene	ND	10	11.5	ug/L	115	(70-130)		
MSD_201501090585	Benzene	ND	10	10.8	ug/L	108	(70-130)	20	6.3
LCS1	Bromochloromethane		5.0	5.09	ug/L	102	(70-130)		
LCS2	Bromochloromethane		5.0	5.34	ug/L	107	(70-130)	20	4.8
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.410	ug/L	82	(50-150)		
MS_201501090585	Bromochloromethane	ND	10	11.3	ug/L	113	(70-130)		
MSD_201501090585	Bromochloromethane	ND	10	10.5	ug/L	105	(70-130)	20	7.3
LCS1	Bromodichloromethane		5.0	5.08	ug/L	102	(70-130)		
LCS2	Bromodichloromethane		5.0	5.43	ug/L	109	(70-130)	20	6.7
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.630	ug/L	126	(50-150)		
MS_201501090585	Bromodichloromethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201501090585	Bromodichloromethane	ND	10	10.5	ug/L	105	(70-130)	20	5.6
LCS1	Bromoform		5.0	5.00	ug/L	100	(70-130)		
LCS2	Bromoform		5.0	5.06	ug/L	101	(70-130)	20	1.2
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.720	ug/L	144	(50-150)		
MS_201501090585	Bromoform	ND	10	9.81	ug/L	98	(70-130)		
MSD_201501090585	Bromoform	ND	10	9.96	ug/L	100	(70-130)	20	1.5
LCS1	Bromomethane (Methyl Bromide)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.29	ug/L	106	(70-130)	20	8.5
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.490	ug/L	98	(50-150)		
MS_201501090585	Bromomethane (Methyl Bromide)	ND	10	13.6	ug/L	**136**	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090585	Bromomethane (Methyl Bromide)	ND	10	13.4	ug/L	**134**	(70-130)	20	1.5
LCS1	Carbon disulfide		5.0	5.01	ug/L	100	(70-130)		
LCS2	Carbon disulfide		5.0	5.34	ug/L	107	(70-130)	20	6.4
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.690	ug/L	138	(50-150)		
MS_201501090585	Carbon disulfide	ND	10	13.0	ug/L	130	(70-130)		
MSD_201501090585	Carbon disulfide	ND	10	12.3	ug/L	123	(70-130)	20	5.5
LCS1	Carbon Tetrachloride		5.0	5.12	ug/L	102	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.36	ug/L	107	(70-130)	20	4.6
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.650	ug/L	130	(50-150)		
MS_201501090585	Carbon Tetrachloride	ND	10	12.2	ug/L	122	(70-130)		
MSD_201501090585	Carbon Tetrachloride	ND	10	11.9	ug/L	119	(70-130)	20	2.5
LCS1	Chlorobenzene		5.0	5.50	ug/L	110	(70-130)		
LCS2	Chlorobenzene		5.0	5.87	ug/L	117	(70-130)	20	6.5
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		
MS_201501090585	Chlorobenzene	ND	10	13.1	ug/L	**131**	(70-130)		
MSD_201501090585	Chlorobenzene	ND	10	12.5	ug/L	125	(70-130)	20	4.7
LCS1	Chlorodibromomethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.12	ug/L	102	(70-130)	20	2.0
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.690	ug/L	138	(50-150)		
MS_201501090585	Chlorodibromomethane	ND	10	10.8	ug/L	108	(70-130)		
MSD_201501090585	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)	20	5.7
LCS1	Chloroethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	Chloroethane		5.0	5.61	ug/L	112	(70-130)	20	6.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201501090585	Chloroethane	ND	10	12.9	ug/L	129	(70-130)		
MSD_201501090585	Chloroethane	ND	10	12.6	ug/L	127	(70-130)	20	1.6
LCS1	Chloroform (Trichloromethane)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.11	ug/L	102	(70-130)	20	4.4
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.430	ug/L	86	(50-150)		
MS_201501090585	Chloroform (Trichloromethane)	ND	10	11.4	ug/L	115	(70-130)		
MSD_201501090585	Chloroform (Trichloromethane)	ND	10	10.4	ug/L	104	(70-130)	20	10
LCS1	Chloromethane(Methyl Chloride)		5.0	5.93	ug/L	119	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloromethane(Methyl Chloride)		5.0	6.47	ug/L	129	(70-130)	20	8.7
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.580	ug/L	116	(50-150)		
MS_201501090585	Chloromethane(Methyl Chloride)	ND	10	13.2	ug/L	**132**	(70-130)		
MSD_201501090585	Chloromethane(Methyl Chloride)	ND	10	12.4	ug/L	123	(70-130)	20	6.3
LCS1	cis-1,2-Dichloroethylene		5.0	4.96	ug/L	99	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.36	ug/L	107	(70-130)	20	7.8
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
MS_201501090585	cis-1,2-Dichloroethylene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201501090585	cis-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	5.5
LCS1	cis-1,3-Dichloropropene		5.0	5.08	ug/L	102	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.19	ug/L	104	(70-130)	20	2.1
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.770	ug/L	**154**	(50-150)		
MS_201501090585	cis-1,3-Dichloropropene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201501090585	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	Dibromomethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	Dibromomethane		5.0	5.38	ug/L	108	(70-130)	20	7.1
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.460	ug/L	92	(50-150)		
MS_201501090585	Dibromomethane	ND	10	11.6	ug/L	117	(70-130)		
MSD_201501090585	Dibromomethane	ND	10	10.7	ug/L	107	(70-130)	20	8.9
LCS1	Dichlorodifluoromethane		5.0	6.28	ug/L	126	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	7.13	ug/L	**143**	(70-130)	20	13
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501090585	Dichlorodifluoromethane	ND	10	13.1	ug/L	**131**	(70-130)		
MSD_201501090585	Dichlorodifluoromethane	ND	10	13.1	ug/L	**131**	(70-130)	20	0.0
LCS1	Dichloromethane		5.0	5.31	ug/L	106	(70-130)		
LCS2	Dichloromethane		5.0	5.46	ug/L	109	(70-130)	20	2.8
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.600	ug/L	120	(50-150)		
MS_201501090585	Dichloromethane	ND	10	11.8	ug/L	118	(70-130)		
MSD_201501090585	Dichloromethane	ND	10	11.1	ug/L	111	(70-130)	20	6.1
LCS1	Di-isopropyl ether		5.0	5.12	ug/L	102	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.41	ug/L	108	(70-130)	20	5.5
MBLK	Di-isopropyl ether			<3.0	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Di-isopropyl ether		0.5	0.520	ug/L	104	(50-150)		
MS_201501090585	Di-isopropyl ether	ND	10	12.1	ug/L	121	(70-130)		
MSD_201501090585	Di-isopropyl ether	ND	10	11.4	ug/L	114	(70-130)	20	6.0
LCS1	Ethyl benzene		5.0	5.14	ug/L	103	(70-130)		
LCS2	Ethyl benzene		5.0	5.53	ug/L	111	(70-130)	20	7.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.620	ug/L	124	(50-150)		
MS_201501090585	Ethyl benzene	ND	10	12.1	ug/L	121	(70-130)		
MSD_201501090585	Ethyl benzene	ND	10	11.4	ug/L	114	(70-130)	20	6.0
LCS1	Iodomethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	Iodomethane		5.0	5.40	ug/L	108	(70-130)	20	5.7
MBLK	Iodomethane			<0.1	ug/L				
MRL_CHK	Iodomethane		0.5	0.470	ug/L	94	(50-150)		
MS_201501090585	Iodomethane	ND	10	12.1	ug/L	121	(70-130)		
MSD_201501090585	Iodomethane	ND	10	11.4	ug/L	115	(70-130)	20	5.1
LCS1	m,p-Xylenes		10	10.5	ug/L	105	(70-130)		
LCS2	m,p-Xylenes		10	11.7	ug/L	117	(70-130)	20	11
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.05	ug/L	105	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.690	ug/L	138	(50-150)		
MS_201501090585	m,p-Xylenes	ND	20	24.9	ug/L	125	(70-130)		
MSD_201501090585	m,p-Xylenes	ND	20	23.5	ug/L	118	(70-130)	20	5.8
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.49	ug/L	110	(70-130)	20	2.8
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.570	ug/L	114	(50-150)		
MS_201501090585	Methyl Tert-butyl ether (MTBE)	ND	10	11.9	ug/L	119	(70-130)		
MSD_201501090585	Methyl Tert-butyl ether (MTBE)	ND	10	11.2	ug/L	112	(70-130)	20	6.1
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.11	ug/L	102	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.16	ug/L	103	(70-130)	20	0.97
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.500	ug/L	100	(50-150)		
MS_201501090585	o-Dichlorobenzene (1,2-DCB)	ND	10	11.5	ug/L	115	(70-130)		
MSD_201501090585	o-Dichlorobenzene (1,2-DCB)	ND	10	11.0	ug/L	110	(70-130)	20	4.4
LCS1	o-Xylene		5.0	4.81	ug/L	96	(70-130)		
LCS2	o-Xylene		5.0	5.47	ug/L	109	(70-130)	20	13
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.690	ug/L	138	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090585	o-Xylene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201501090585	o-Xylene	ND	10	11.5	ug/L	115	(70-130)	20	0.87
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.42	ug/L	108	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.66	ug/L	113	(70-130)	20	4.3
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501090585	p-Dichlorobenzene (1,4-DCB)	ND	10	12.6	ug/L	126	(70-130)		
MSD_201501090585	p-Dichlorobenzene (1,4-DCB)	ND	10	12.0	ug/L	120	(70-130)	20	4.9
LCS1	Styrene		5.0	4.49	ug/L	90	(70-130)		
LCS2	Styrene		5.0	5.14	ug/L	103	(70-130)	20	14
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.580	ug/L	116	(50-150)		
MS_201501090585	Styrene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201501090585	Styrene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
LCS1	T-Butyl Alcohol		50	61.5	ug/L	123	(70-130)		
LCS2	T-Butyl Alcohol		50	64.4	ug/L	129	(70-130)	20	4.6
MBLK	T-Butyl Alcohol			<5	ug/L				
MRL_CHK	T-Butyl Alcohol		5.0	5.90	ug/L	118	(50-150)		
MS_201501090585	T-Butyl Alcohol	ND	100	123	ug/L	123	(70-130)		
MSD_201501090585	T-Butyl Alcohol	ND	100	120	ug/L	120	(70-130)	20	2.5
LCS1	tert-amyl Methyl Ether		5.0	5.59	ug/L	112	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	5.92	ug/L	118	(70-130)	20	5.7
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.590	ug/L	118	(50-150)		
MS_201501090585	tert-amyl Methyl Ether	ND	10	12.5	ug/L	125	(70-130)		
MSD_201501090585	tert-amyl Methyl Ether	ND	10	12.1	ug/L	121	(70-130)	20	3.3
LCS1	tert-Butyl Ethyl Ether		5.0	4.89	ug/L	98	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.15	ug/L	103	(70-130)	20	5.2
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.530	ug/L	106	(50-150)		
MS_201501090585	tert-Butyl Ethyl Ether	ND	10	11.0	ug/L	110	(70-130)		
MSD_201501090585	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	1.8
LCS1	Tetrachloroethylene (PCE)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.35	ug/L	107	(70-130)	20	9.6
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
MS_201501090585	Tetrachloroethylene (PCE)	ND	10	12.3	ug/L	123	(70-130)		
MSD_201501090585	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	117	(70-130)	20	5.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Toluene		5.0	4.86	ug/L	97	(70-130)		
LCS2	Toluene		5.0	5.31	ug/L	106	(70-130)	20	8.8
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.460	ug/L	92	(50-150)		
MS_201501090585	Toluene	ND	10	12.1	ug/L	121	(70-130)		
MSD_201501090585	Toluene	ND	10	11.1	ug/L	111	(70-130)	20	8.6
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			90.4	%	90	(70-130)		
MRL_CHK	Toluene-d8 (S)			97.6	%	98	(70-130)		
MRLLW	Toluene-d8 (S)			96.8	%	97	(70-130)		
MS_201501090585	Toluene-d8 (S)			105	%	105	(70-130)		
MSD_201501090585	Toluene-d8 (S)			104	%	104	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.00	ug/L	100	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.35	ug/L	107	(70-130)	20	6.8
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.480	ug/L	96	(50-150)		
MS_201501090585	trans-1,2-Dichloroethylene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201501090585	trans-1,2-Dichloroethylene	ND	10	11.1	ug/L	111	(70-130)	20	6.1
LCS1	trans-1,3-Dichloropropene		5.0	4.77	ug/L	95	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.35	ug/L	107	(70-130)	20	12
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.670	ug/L	134	(50-150)		
MS_201501090585	trans-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201501090585	trans-1,3-Dichloropropene	ND	10	10.3	ug/L	103	(70-130)	20	2.9
LCS1	trans-1,4-dichloro-2-butene		5.0	5.04	ug/L	101	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	5.12	ug/L	102	(70-130)	20	1.6
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201501090585	trans-1,4-dichloro-2-butene	ND	10	7.74	ug/L	77	(70-130)		
MSD_201501090585	trans-1,4-dichloro-2-butene	ND	10	7.63	ug/L	76	(70-130)	20	1.4
LCS1	Trichloroethylene (TCE)		5.0	4.86	ug/L	97	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.40	ug/L	108	(70-130)	20	11
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
MS_201501090585	Trichloroethylene (TCE)	ND	10	11.8	ug/L	118	(70-130)		
MSD_201501090585	Trichloroethylene (TCE)	ND	10	11.2	ug/L	112	(70-130)	20	5.2
LCS1	Trichlorofluoromethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.02	ug/L	100	(70-130)	20	4.7

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201501090585	Trichlorofluoromethane	ND	10	13.3	ug/L	**133**	(70-130)		
MSD_201501090585	Trichlorofluoromethane	ND	10	12.9	ug/L	129	(70-130)	20	3.0
LCS1	Vinyl Acetate		25	23.9	ug/L	96	(70-130)		
LCS2	Vinyl Acetate		25	25.2	ug/L	101	(70-130)	20	5.3
MBLK	Vinyl Acetate			<5.0	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.33	ug/L	93	(50-150)		
MS_201501090585	Vinyl Acetate	ND	50	57.7	ug/L	115	(70-130)		
MSD_201501090585	Vinyl Acetate	ND	50	54.2	ug/L	108	(70-130)	20	6.3
LCS1	Vinyl chloride (VC)		5.0	5.35	ug/L	107	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.80	ug/L	116	(70-130)	20	8.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.580	ug/L	116	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.310	ug/L	124	(50-150)		
MS_201501090585	Vinyl chloride (VC)	ND	10	12.9	ug/L	129	(70-130)		
MSD_201501090585	Vinyl chloride (VC)	ND	10	12.4	ug/L	124	(70-130)	20	4.0
QC Ref# 813973 - Total Dissolved Solids (TDS) by E160.1/SM2540C						**Analysis Date: 01/13/2015**			
DUP_201501080768	Total Dissolved Solid (TDS)	520		506	mg/L		(0-20)	20	3.5
DUP_201501080790	Total Dissolved Solid (TDS)	650		652	mg/L		(0-20)	20	0.0
LCS1	Total Dissolved Solid (TDS)		175	162	mg/L	93	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	628	mg/L	90	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		
QC Ref# 814027 - Mercury Total by EPA 245.1						**Analysis Date: 01/13/2015**			
LCS1	Mercury		1.5	1.51	ug/L	101	(85-115)		
LCS2	Mercury		1.5	1.56	ug/L	104	(85-115)	20	3.3
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.198	ug/L	99	(50-150)		
MS_201501080460	Mercury	ND	1.5	1.61	ug/L	104	(70-130)		
MS_201501080753	Mercury	ND	1.5	1.54	ug/L	102	(70-130)		
MSD_201501080460	Mercury	ND	1.5	1.62	ug/L	105	(70-130)	20	0.62
MSD_201501080753	Mercury	ND	1.5	1.55	ug/L	102	(70-130)	20	0.65
QC Ref# 814106 - ICPMS Metals by EPA 200.8						**Analysis Date: 01/14/2015**			
LCS1	Antimony Total ICAP/MS		50	55.2	ug/L	110	(85-115)		
LCS2	Antimony Total ICAP/MS		50	54.2	ug/L	108	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Antimony Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090441	Antimony Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)		
MS2_201501090439	Antimony Total ICAP/MS	1.6	50	49.8	ug/L	100	(70-130)		
MSD_201501090441	Antimony Total ICAP/MS	ND	50	47.9	ug/L	96	(70-130)	20	2.3
MSD2_201501090439	Antimony Total ICAP/MS	1.6	50	50.1	ug/L	100	(70-130)	20	0.60
LCS1	Arsenic Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	22.2	ug/L	111	(85-115)	20	1.8
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090441	Arsenic Total ICAP/MS	50	20	22.4	ug/L	112	(70-130)		
MS2_201501090439	Arsenic Total ICAP/MS	28	20	33.6	ug/L	**168**	(70-130)		
MSD_201501090441	Arsenic Total ICAP/MS	50	20	22.0	ug/L	110	(70-130)	20	1.8
MSD2_201501090439	Arsenic Total ICAP/MS	28	20	33.9	ug/L	**169**	(70-130)	20	0.89
LCS1	Beryllium Total ICAP/MS		5.0	5.68	ug/L	114	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.43	ug/L	109	(85-115)	20	4.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.28	ug/L	106	(70-130)		
MS2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.52	ug/L	110	(70-130)		
MSD_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.45	ug/L	109	(70-130)	20	3.2
MSD2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.56	ug/L	111	(70-130)	20	0.72
LCS1	Cadmium Total ICAP/MS		20	21.8	ug/L	109	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.5	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.563	ug/L	113	(50-150)		
MS_201501090441	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201501090441	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201501090439	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	3.5
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.990	ug/L	99	(50-150)		
MS_201501090441	Chromium Total ICAP/MS	70	100	104	ug/L	103	(70-130)		
MS2_201501090439	Chromium Total ICAP/MS	18	100	104	ug/L	104	(70-130)		
MSD_201501090441	Chromium Total ICAP/MS	70	100	101	ug/L	101	(70-130)	20	2.9
MSD2_201501090439	Chromium Total ICAP/MS	18	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Lead dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Lead dissolved ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	99	(70-130)		
MS2_201501090439	Lead dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501090441	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	2.5
MSD2_201501090439	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	0.51
LCS1	Lead Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead Total ICAP/MS	34	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Lead Total ICAP/MS	13	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Lead Total ICAP/MS	34	20	19.6	ug/L	98	(70-130)	20	2.5
MSD2_201501090439	Lead Total ICAP/MS	13	20	19.6	ug/L	98	(70-130)	20	0.51
LCS1	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	47.9	ug/L	96	(85-115)	20	3.7
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.58	ug/L	92	(50-150)		
MS_201501090441	Nickel Total ICAP/MS	20	50	50.1	ug/L	100	(70-130)		
MS2_201501090439	Nickel Total ICAP/MS	12	50	49.6	ug/L	99	(70-130)		
MSD_201501090441	Nickel Total ICAP/MS	20	50	48.7	ug/L	97	(70-130)	20	2.8
MSD2_201501090439	Nickel Total ICAP/MS	12	50	49.2	ug/L	98	(70-130)	20	0.81
LCS1	Selenium Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.6
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	7.00	ug/L	140	(50-150)		
MS_201501090441	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201501090439	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501090441	Selenium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	4.9
MSD2_201501090439	Selenium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.9
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.999	ug/L	100	(50-150)		
MS_201501090441	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501090439	Thallium Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501090439	Thallium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	1.0
LCS1	Zinc Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201501090441	Zinc Total ICAP/MS	400	100	104	ug/L	105	(70-130)		
MS2_201501090439	Zinc Total ICAP/MS	100	100	109	ug/L	109	(70-130)		
MSD_201501090441	Zinc Total ICAP/MS	400	100	110	ug/L	110	(70-130)	20	4.7
MSD2_201501090439	Zinc Total ICAP/MS	100	100	107	ug/L	107	(70-130)	20	1.9
QC Ref# 814193 - Disinfection ByProducts by 300.0 by EPA 300.0						**Analysis Date: 01/13/2015**			
LCS1	Bromide		100	100	ug/L	100	(90-110)		
LCS2	Bromide		100	101	ug/L	101	(90-110)	20	1
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	5.54	ug/L	111	(50-150)		
MS_201501090530	Bromide	8.2	50	57.2	ug/L	98	(80-120)		
MS_201501090151	Bromide	ND	50	48.7	ug/L	97	(80-120)		
MSD_201501090530	Bromide	8.2	50	56.9	ug/L	97	(80-120)	15	0.53
MSD_201501090151	Bromide	ND	50	48.8	ug/L	98	(80-120)	15	0.21
QC Ref# 814202 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 01/09/2015**			
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.06	ug/L	106	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.0934	ug/L	93	(50-150)		
MS1_201501070542	Alachlor (Alanex)	ND	0.2	0.188	ug/L	94	(65-135)		
MS2_201501080002	Alachlor (Alanex)	ND	1.0	1.02	ug/L	102	(65-135)		
CCCH	Aldrin		0.1	0.107	ug/L	107	(70-130)		
CCCH	Aldrin		0.1	0.112	ug/L	112	(70-130)		
LCS1	Aldrin		0.1	0.101	ug/L	101	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0115	ug/L	115	(50-150)		
MS1_201501070542	Aldrin	ND	0.02	0.0211	ug/L	106	(65-135)		
MS2_201501080002	Aldrin	ND	0.1	0.0918	ug/L	92	(65-135)		
CCCH	Chlordane		0.5	0.533	ug/L	107	(70-130)		
LCS1	Chlordane		0.5	0.463	ug/L	93	(70-130)		
MBLK	Chlordane			<0.1	ug/L				
MRL_CHK	Chlordane		0.1	0.0789	ug/L	79	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201501070542	Chlordane	0.23	0.5	0.753	ug/L	105	(65-135)		
CCCH	Dieldrin		0.1	0.0985	ug/L	99	(70-130)		
CCCH	Dieldrin		0.1	0.0966	ug/L	97	(70-130)		
LCS1	Dieldrin		0.1	0.0900	ug/L	90	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0106	ug/L	106	(50-150)		
MS1_201501070542	Dieldrin	0.030	0.02	0.0500	ug/L	98	(65-135)		
MS2_201501080002	Dieldrin	ND	0.1	0.0957	ug/L	96	(65-135)		
CCCH	Endrin		0.1	0.0981	ug/L	98	(70-130)		
CCCH	Endrin		0.1	0.0976	ug/L	98	(70-130)		
LCS1	Endrin		0.1	0.0967	ug/L	97	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0100	ug/L	100	(50-150)		
MS1_201501070542	Endrin	ND	0.02	0.0199	ug/L	100	(65-135)		
MS2_201501080002	Endrin	ND	0.1	0.0973	ug/L	97	(65-135)		
CCCH	Heptachlor		0.1	0.116	ug/L	116	(70-130)		
CCCH	Heptachlor		0.1	0.117	ug/L	117	(70-130)		
LCS1	Heptachlor		0.1	0.105	ug/L	105	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.0129	ug/L	129	(50-150)		
MS1_201501070542	Heptachlor	ND	0.02	0.0239	ug/L	120	(65-135)		
MS2_201501080002	Heptachlor	ND	0.1	0.107	ug/L	103	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.105	ug/L	105	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0119	ug/L	119	(50-150)		
MS1_201501070542	Heptachlor Epoxide	ND	0.02	0.0245	ug/L	111	(65-135)		
MS2_201501080002	Heptachlor Epoxide	ND	0.1	0.102	ug/L	100	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0982	ug/L	98	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.0993	ug/L	99	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0964	ug/L	96	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0111	ug/L	111	(50-150)		
MS1_201501070542	Lindane (gamma-BHC)	ND	0.02	0.0199	ug/L	100	(65-135)		
MS2_201501080002	Lindane (gamma-BHC)	ND	0.1	0.0976	ug/L	98	(65-135)		
CCCH	Methoxychlor		0.5	0.460	ug/L	92	(70-130)		
CCCH	Methoxychlor		0.5	0.455	ug/L	91	(70-130)		

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Methoxychlor		0.5	0.477	ug/L	95	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0454	ug/L	91	(50-150)		
MS1_201501070542	Methoxychlor	ND	0.1	0.0886	ug/L	89	(65-135)		
MS2_201501080002	Methoxychlor	ND	0.5	0.455	ug/L	91	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			101	%	101	(70-130)		
CCCH	Tetrachlorometaxylene (S)			97.1	%	97	(70-130)		
LCS1	Tetrachlorometaxylene (S)			108	%	108	(70-130)		
MBLK	Tetrachlorometaxylene (S)			95.1	%	95	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			106	%	106	(70-130)		
MS1_201501070542	Tetrachlorometaxylene (S)			100	%	100	(70-130)		
MS2_201501080002	Tetrachlorometaxylene (S)			95.7	%	96	(70-130)		
CCCH	Toxaphene		2.5	2.36	ug/L	95	(70-130)		
LCS1	Toxaphene		2.5	1.76	ug/L	71	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.439	ug/L	88	(50-150)		
MS2_201501080002	Toxaphene		2.5	2.26	ug/L	90	(65-135)		
QC Ref# 814447 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 01/14/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.45	ug/L	109	(70-130)	20	3.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.44	ug/L	89	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.48	ug/L	90	(70-130)	20	0.90
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.30	ug/L	86	(70-130)	20	10
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.59	ug/L	92	(70-130)		

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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1,2-Trichloroethane		5.0	4.52	ug/L	90	(70-130)	20	1.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloroethane		5.0	4.98	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.90	ug/L	98	(70-130)	20	1.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.66	ug/L	93	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.56	ug/L	91	(70-130)	20	2.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloropropene		5.0	4.46	ug/L	89	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.67	ug/L	93	(70-130)	20	4.6
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	6.99	ug/L	**140**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.95	ug/L	119	(70-130)	20	16
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.80	ug/L	96	(70-130)	20	3.1
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.610	ug/L	122	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	6.62	ug/L	**132**	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	6.05	ug/L	121	(70-130)	20	9.0
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.68	ug/L	114	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.00	ug/L	100	(70-130)	20	13
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.48	ug/L	90	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.56	ug/L	91	(70-130)	20	1.8
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			96.6	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		

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Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.44	ug/L	89	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.53	ug/L	91	(70-130)	20	2.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	4.81	ug/L	96	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	4.19	ug/L	84	(70-130)	20	14
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,3-Dichloropropane		5.0	4.57	ug/L	91	(70-130)		
LCS2	1,3-Dichloropropane		5.0	4.62	ug/L	92	(70-130)	20	1.1
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.450	ug/L	90	(50-150)		
LCS1	2,2-Dichloropropane		5.0	7.72	ug/L	**154**	(70-130)		
LCS2	2,2-Dichloropropane		5.0	7.23	ug/L	**145**	(70-130)	20	6.6
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.520	ug/L	104	(50-150)		
LCS1	2-Butanone (MEK)		50	39.4	ug/L	79	(70-130)		
LCS2	2-Butanone (MEK)		50	44.9	ug/L	90	(70-130)	20	13
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.10	ug/L	102	(50-150)		
LCS1	4-Bromofluorobenzene (S)			91.6	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	49.2	ug/L	98	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	49.2	ug/L	98	(70-130)	20	0.0
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.00	ug/L	80	(50-150)		
LCS1	Benzene		5.0	4.67	ug/L	93	(70-130)		
LCS2	Benzene		5.0	4.74	ug/L	95	(70-130)	20	1.5
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromobenzene		5.0	4.55	ug/L	91	(70-130)		
LCS2	Bromobenzene		5.0	4.27	ug/L	85	(70-130)	20	6.3
MBLK	Bromobenzene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Bromobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Bromochloromethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	Bromochloromethane		5.0	5.01	ug/L	100	(70-130)	20	0.40
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Bromodichloromethane		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromodichloromethane		5.0	4.58	ug/L	92	(70-130)	20	0.88
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	Bromoethane		5.0	4.59	ug/L	92	(70-130)	20	4.3
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.640	ug/L	128	(50-150)		
LCS1	Bromoform		5.0	3.76	ug/L	75	(70-130)		
LCS2	Bromoform		5.0	3.61	ug/L	72	(70-130)	20	4.1
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.18	ug/L	104	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.87	ug/L	97	(70-130)	20	6.2
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
LCS1	Carbon disulfide		5.0	4.25	ug/L	85	(70-130)		
LCS2	Carbon disulfide		5.0	3.97	ug/L	79	(70-130)	20	6.8
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.570	ug/L	114	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.07	ug/L	101	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.05	ug/L	101	(70-130)	20	0.40
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
LCS1	Chlorobenzene		5.0	4.61	ug/L	92	(70-130)		
LCS2	Chlorobenzene		5.0	4.63	ug/L	93	(70-130)	20	0.43
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.40	ug/L	108	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.57	ug/L	111	(70-130)	20	3.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloroethane		5.0	5.06	ug/L	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloroethane		5.0	4.82	ug/L	96	(70-130)	20	4.9
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.32	ug/L	86	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.39	ug/L	88	(70-130)	20	1.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.26	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.22	ug/L	104	(70-130)	20	0.76
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.520	ug/L	104	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.00	ug/L	100	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.85	ug/L	97	(70-130)	20	3.0
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.630	ug/L	126	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.93	ug/L	119	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	6.01	ug/L	120	(70-130)	20	1.3
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
LCS1	Dibromomethane		5.0	4.58	ug/L	92	(70-130)		
LCS2	Dibromomethane		5.0	4.65	ug/L	93	(70-130)	20	1.5
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	5.79	ug/L	116	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.58	ug/L	112	(70-130)	20	3.7
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Dichloromethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	Dichloromethane		5.0	5.22	ug/L	104	(70-130)	20	2.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.86	ug/L	97	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.80	ug/L	96	(70-130)	20	1.2
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
LCS1	Ethyl benzene		5.0	4.41	ug/L	88	(70-130)		
LCS2	Ethyl benzene		5.0	4.52	ug/L	90	(70-130)	20	2.5
MBLK	Ethyl benzene			<0.5	ug/L				

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Ethyl benzene		0.5	0.640	ug/L	128	(50-150)		
LCS1	Hexachlorobutadiene		5.0	7.01	ug/L	**140**	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.77	ug/L	115	(70-130)	20	19
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.570	ug/L	114	(50-150)		
LCS1	Isopropylbenzene		5.0	5.11	ug/L	102	(70-130)		
LCS2	Isopropylbenzene		5.0	4.73	ug/L	95	(70-130)	20	7.7
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	m,p-Xylenes		10	11.0	ug/L	110	(70-130)		
LCS2	m,p-Xylenes		10	10.7	ug/L	107	(70-130)	20	2.8
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.880	ug/L	88	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.470	ug/L	94	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.01	ug/L	100	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	4.50	ug/L	90	(70-130)	20	11
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.96	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.97	ug/L	99	(70-130)	20	0.20
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.580	ug/L	116	(50-150)		
LCS1	Naphthalene		5.0	6.98	ug/L	**140**	(70-130)		
LCS2	Naphthalene		5.0	6.22	ug/L	124	(70-130)	20	12
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.350	ug/L	70	(50-150)		
LCS1	n-Butylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	n-Butylbenzene		5.0	4.66	ug/L	93	(70-130)	20	13
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.580	ug/L	116	(50-150)		
LCS1	n-Propylbenzene		5.0	4.85	ug/L	97	(70-130)		
LCS2	n-Propylbenzene		5.0	4.62	ug/L	92	(70-130)	20	4.9
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.11	ug/L	102	(70-130)		
LCS2	o-Chlorotoluene		5.0	4.74	ug/L	95	(70-130)	20	7.5
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.28	ug/L	106	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	4.74	ug/L	95	(70-130)	20	11
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Xylene		5.0	4.55	ug/L	91	(70-130)		
LCS2	o-Xylene		5.0	4.39	ug/L	88	(70-130)	20	3.6
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.630	ug/L	126	(50-150)		
LCS1	p-Chlorotoluene		5.0	4.75	ug/L	95	(70-130)		
LCS2	p-Chlorotoluene		5.0	4.51	ug/L	90	(70-130)	20	5.2
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.420	ug/L	84	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.29	ug/L	106	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.89	ug/L	98	(70-130)	20	7.9
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.53	ug/L	111	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.09	ug/L	102	(70-130)	20	8.3
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.63	ug/L	113	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.26	ug/L	105	(70-130)	20	6.8
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Styrene		5.0	5.30	ug/L	106	(70-130)		
LCS2	Styrene		5.0	5.26	ug/L	105	(70-130)	20	0.76
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.520	ug/L	104	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.77	ug/L	95	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.65	ug/L	93	(70-130)	20	2.5
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.470	ug/L	94	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	5.11	ug/L	102	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.20	ug/L	104	(70-130)	20	1.8
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.53	ug/L	111	(70-130)		
LCS2	tert-Butylbenzene		5.0	4.96	ug/L	99	(70-130)	20	11

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 515305

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	4.27	ug/L	85	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.55	ug/L	91	(70-130)	20	6.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene		5.0	4.50	ug/L	90	(70-130)		
LCS2	Toluene		5.0	4.51	ug/L	90	(70-130)	20	0.22
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS2	Toluene-d8 (S)			106	%	106	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.94	ug/L	99	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.76	ug/L	95	(70-130)	20	3.7
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	6.10	ug/L	122	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.76	ug/L	115	(70-130)	20	5.7
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	4.71	ug/L	94	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.67	ug/L	93	(70-130)	20	0.85
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Trichlorofluoromethane		5.0	4.41	ug/L	88	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.33	ug/L	87	(70-130)	20	1.8
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.61	ug/L	92	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.52	ug/L	90	(70-130)	20	2.0
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.590	ug/L	118	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	4.95	ug/L	99	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.82	ug/L	96	(70-130)	20	2.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Vinyl chloride (VC)		0.5	0.530	ug/L	106	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.250	ug/L	100	(50-150)		
QC Ref# 814448 - Volatile Organics by GCMS by EPA 8260						**Analysis Date: 01/14/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.45	ug/L	109	(70-130)	20	3.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201501100016	1,1,1,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201501100016	1,1,1,2-Tetrachloroethane	ND	10	11.0	ug/L	110	(70-130)	20	3.7
LCS1	1,1,1-Trichloroethane		5.0	4.44	ug/L	89	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.48	ug/L	90	(70-130)	20	0.90
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	1,1,1-Trichloroethane	ND	10	10.0	ug/L	100	(70-130)		
MSD_201501100016	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(70-130)	20	3.0
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.30	ug/L	86	(70-130)	20	10
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.600	ug/L	120	(50-150)		
MS_201501100016	1,1,2,2-Tetrachloroethane	ND	10	9.14	ug/L	91	(70-130)		
MSD_201501100016	1,1,2,2-Tetrachloroethane	ND	10	9.51	ug/L	95	(70-130)	20	4.0
LCS1	1,1,2-Trichloroethane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.52	ug/L	90	(70-130)	20	1.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501100016	1,1,2-Trichloroethane	ND	10	8.74	ug/L	87	(70-130)		
MSD_201501100016	1,1,2-Trichloroethane	ND	10	9.09	ug/L	91	(70-130)	20	3.9
LCS1	1,1-Dichloroethane		5.0	4.98	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.90	ug/L	98	(70-130)	20	1.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201501100016	1,1-Dichloroethane	ND	10	9.59	ug/L	96	(70-130)		
MSD_201501100016	1,1-Dichloroethane	ND	10	9.89	ug/L	99	(70-130)	20	3.1
LCS1	1,1-Dichloroethylene		5.0	4.66	ug/L	93	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.56	ug/L	91	(70-130)	20	2.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201501100016	1,1-Dichloroethylene	ND	10	9.83	ug/L	98	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501100016	1,1-Dichloroethylene	ND	10	10.1	ug/L	101	(70-130)	20	2.7
LCS1	1,2,3-Trichloropropane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.80	ug/L	96	(70-130)	20	3.1
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.610	ug/L	122	(50-150)		
MS_201501100016	1,2,3-Trichloropropane	ND	10	9.82	ug/L	98	(70-130)		
MSD_201501100016	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)	20	4.8
LCS1	1,2-Dibromo-3-chloropropane		5.0	5.06	ug/L	101	(70-130)		
LCS2	1,2-Dibromo-3-chloropropane		5.0	3.98	ug/L	80	(70-130)	20	**24**
MBLK	1,2-Dibromo-3-chloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.5	0.540	ug/L	108	(50-150)		
MS_201501100016	1,2-Dibromo-3-chloropropane	ND	10	10.0	ug/L	100	(70-130)		
MSD_201501100016	1,2-Dibromo-3-chloropropane	ND	10	11.0	ug/L	110	(70-130)	20	9.5
LCS1	1,2-Dibromoethane		5.0	4.48	ug/L	90	(70-130)		
LCS2	1,2-Dibromoethane		5.0	4.26	ug/L	85	(70-130)	20	5.0
MBLK	1,2-Dibromoethane			<0.5	ug/L				
MRL_CHK	1,2-Dibromoethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	1,2-Dibromoethane	ND	10	8.91	ug/L	89	(70-130)		
MSD_201501100016	1,2-Dibromoethane	ND	10	9.60	ug/L	96	(70-130)	20	7.5
LCS1	1,2-Dichloroethane		5.0	4.48	ug/L	90	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.56	ug/L	91	(70-130)	20	1.8
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501100016	1,2-Dichloroethane	ND	10	8.98	ug/L	90	(70-130)		
MSD_201501100016	1,2-Dichloroethane	ND	10	9.53	ug/L	95	(70-130)	20	5.9
LCS1	1,2-Dichloroethane-d4 (S)			96.6	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
MS_201501100016	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201501100016	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.44	ug/L	89	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.53	ug/L	91	(70-130)	20	2.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
MS_201501100016	1,2-Dichloropropane	ND	10	9.09	ug/L	91	(70-130)		
MSD_201501100016	1,2-Dichloropropane	ND	10	9.36	ug/L	94	(70-130)	20	2.9

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	2-Butanone (MEK)		50	39.4	ug/L	79	(70-130)		
LCS2	2-Butanone (MEK)		50	44.9	ug/L	90	(70-130)	20	13
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.10	ug/L	102	(50-150)		
MS_201501100016	2-Butanone (MEK)	ND	100	87.4	ug/L	87	(70-130)		
MSD_201501100016	2-Butanone (MEK)	ND	100	95.6	ug/L	95	(70-130)	20	9.0
LCS1	2-Hexanone		50	52.5	ug/L	105	(70-130)		
LCS2	2-Hexanone		50	53.4	ug/L	107	(70-130)	20	1.7
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5.0	4.14	ug/L	83	(50-150)		
MS_201501100016	2-Hexanone	ND	100	106	ug/L	106	(70-130)		
MSD_201501100016	2-Hexanone	ND	100	113	ug/L	113	(70-130)	20	6.4
LCS1	4-Bromofluorobenzene (S)			91.6	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MS_201501100016	4-Bromofluorobenzene (S)			89.2	%	89	(70-130)		
MSD_201501100016	4-Bromofluorobenzene (S)			93.8	%	94	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	49.2	ug/L	98	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	49.2	ug/L	98	(70-130)	20	0.0
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.00	ug/L	80	(50-150)		
MS_201501100016	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	115	(70-130)		
MSD_201501100016	4-Methyl-2-Pentanone (MIBK)	ND	100	120	ug/L	120	(70-130)	20	4.3
LCS1	Acetone		50	48.7	ug/L	98	(70-130)		
LCS2	Acetone		50	49.8	ug/L	100	(70-130)	20	2.2
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.89	ug/L	118	(50-150)		
MS_201501100016	Acetone	ND	100	101	ug/L	101	(70-130)		
MSD_201501100016	Acetone	ND	100	104	ug/L	104	(70-130)	20	2.9
LCS1	Acrylonitrile (Screen)		5.0	5.27	ug/L	105	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	5.27	ug/L	105	(70-130)	20	0.0
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MRL_CHK	Acrylonitrile (Screen)		0.5	0.510	ug/L	102	(15-150)		
MS_201501100016	Acrylonitrile (Screen)	ND	10	10.7	ug/L	107	(70-130)		
MSD_201501100016	Acrylonitrile (Screen)	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Benzene		5.0	4.67	ug/L	93	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Benzene		5.0	4.74	ug/L	95	(70-130)	20	1.5
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	Benzene	ND	10	9.42	ug/L	94	(70-130)		
MSD_201501100016	Benzene	ND	10	9.94	ug/L	99	(70-130)	20	5.4
LCS1	Bromochloromethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	Bromochloromethane		5.0	5.01	ug/L	100	(70-130)	20	0.40
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201501100016	Bromochloromethane	ND	10	9.58	ug/L	96	(70-130)		
MSD_201501100016	Bromochloromethane	ND	10	9.98	ug/L	100	(70-130)	20	4.1
LCS1	Bromodichloromethane		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromodichloromethane		5.0	4.58	ug/L	92	(70-130)	20	0.88
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201501100016	Bromodichloromethane	ND	10	9.66	ug/L	97	(70-130)		
MSD_201501100016	Bromodichloromethane	ND	10	10.5	ug/L	105	(70-130)	20	8.3
LCS1	Bromoform		5.0	3.76	ug/L	75	(70-130)		
LCS2	Bromoform		5.0	3.61	ug/L	72	(70-130)	20	4.1
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
MS_201501100016	Bromoform	ND	10	9.13	ug/L	91	(70-130)		
MSD_201501100016	Bromoform	ND	10	10.0	ug/L	101	(70-130)	20	10
LCS1	Bromomethane (Methyl Bromide)		5.0	5.18	ug/L	104	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.87	ug/L	97	(70-130)	20	6.2
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
MS_201501100016	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(70-130)		
MSD_201501100016	Bromomethane (Methyl Bromide)	ND	10	12.9	ug/L	129	(70-130)	20	7.2
LCS1	Carbon disulfide		5.0	4.25	ug/L	85	(70-130)		
LCS2	Carbon disulfide		5.0	3.97	ug/L	79	(70-130)	20	6.8
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.570	ug/L	114	(50-150)		
MS_201501100016	Carbon disulfide	ND	10	10.1	ug/L	100	(70-130)		
MSD_201501100016	Carbon disulfide	ND	10	10.7	ug/L	105	(70-130)	20	5.8
LCS1	Carbon Tetrachloride		5.0	5.07	ug/L	101	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.05	ug/L	101	(70-130)	20	0.40
MBLK	Carbon Tetrachloride			<0.5	ug/L				

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Laboratory QC
Report: 515305

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
MS_201501100016	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(70-130)		
MSD_201501100016	Carbon Tetrachloride	ND	10	11.4	ug/L	114	(70-130)	20	3.6
LCS1	Chlorobenzene		5.0	4.61	ug/L	92	(70-130)		
LCS2	Chlorobenzene		5.0	4.63	ug/L	93	(70-130)	20	0.43
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	Chlorobenzene	ND	10	9.47	ug/L	95	(70-130)		
MSD_201501100016	Chlorobenzene	ND	10	9.92	ug/L	99	(70-130)	20	4.6
LCS1	Chlorodibromomethane		5.0	5.40	ug/L	108	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.57	ug/L	111	(70-130)	20	3.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	Chlorodibromomethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201501100016	Chlorodibromomethane	ND	10	10.5	ug/L	105	(70-130)	20	1.9
LCS1	Chloroethane		5.0	5.06	ug/L	101	(70-130)		
LCS2	Chloroethane		5.0	4.82	ug/L	96	(70-130)	20	4.9
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201501100016	Chloroethane	ND	10	11.6	ug/L	116	(70-130)		
MSD_201501100016	Chloroethane	ND	10	12.2	ug/L	122	(70-130)	20	5.0
LCS1	Chloroform (Trichloromethane)		5.0	4.32	ug/L	86	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.39	ug/L	88	(70-130)	20	1.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
MS_201501100016	Chloroform (Trichloromethane)	ND	10	8.56	ug/L	86	(70-130)		
MSD_201501100016	Chloroform (Trichloromethane)	ND	10	9.11	ug/L	91	(70-130)	20	6.2
LCS1	Chloromethane(Methyl Chloride)		5.0	5.26	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.22	ug/L	104	(70-130)	20	0.76
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.520	ug/L	104	(50-150)		
MS_201501100016	Chloromethane(Methyl Chloride)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201501100016	Chloromethane(Methyl Chloride)	ND	10	11.1	ug/L	111	(70-130)	20	6.5
LCS1	cis-1,2-Dichloroethylene		5.0	5.00	ug/L	100	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.85	ug/L	97	(70-130)	20	3.0
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501100016	cis-1,2-Dichloroethylene	ND	10	9.78	ug/L	98	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501100016	cis-1,2-Dichloroethylene	ND	10	10.2	ug/L	102	(70-130)	20	4.2
LCS1	cis-1,3-Dichloropropene		5.0	5.93	ug/L	119	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	6.01	ug/L	120	(70-130)	20	1.3
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
MS_201501100016	cis-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)		
MSD_201501100016	cis-1,3-Dichloropropene	ND	10	12.3	ug/L	123	(70-130)	20	10
LCS1	Dibromomethane		5.0	4.58	ug/L	92	(70-130)		
LCS2	Dibromomethane		5.0	4.65	ug/L	93	(70-130)	20	1.5
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501100016	Dibromomethane	ND	10	9.08	ug/L	91	(70-130)		
MSD_201501100016	Dibromomethane	ND	10	9.67	ug/L	97	(70-130)	20	6.3
LCS1	Dichlorodifluoromethane		5.0	5.79	ug/L	116	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.58	ug/L	112	(70-130)	20	3.7
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501100016	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(70-130)		
MSD_201501100016	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(70-130)	20	1.6
LCS1	Dichloromethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	Dichloromethane		5.0	5.22	ug/L	104	(70-130)	20	2.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201501100016	Dichloromethane	ND	10	9.99	ug/L	100	(70-130)		
MSD_201501100016	Dichloromethane	ND	10	10.1	ug/L	101	(70-130)	20	1.1
LCS1	Di-isopropyl ether		5.0	4.86	ug/L	97	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.80	ug/L	96	(70-130)	20	1.2
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
MS_201501100016	Di-isopropyl ether	ND	10	9.95	ug/L	100	(70-130)		
MSD_201501100016	Di-isopropyl ether	ND	10	10.3	ug/L	103	(70-130)	20	3.5
LCS1	Ethyl benzene		5.0	4.41	ug/L	88	(70-130)		
LCS2	Ethyl benzene		5.0	4.52	ug/L	90	(70-130)	20	2.5
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.640	ug/L	128	(50-150)		
MS_201501100016	Ethyl benzene	ND	10	9.52	ug/L	92	(70-130)		
MSD_201501100016	Ethyl benzene	ND	10	10.2	ug/L	99	(70-130)	20	6.9
LCS1	Iodomethane		5.0	5.26	ug/L	105	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Iodomethane		5.0	5.00	ug/L	100	(70-130)	20	5.1
MBLK	Iodomethane			<0.1	ug/L				
MRL_CHK	Iodomethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501100016	Iodomethane	ND	10	10.8	ug/L	108	(70-130)		
MSD_201501100016	Iodomethane	ND	10	10.6	ug/L	106	(70-130)	20	0.93
LCS1	m,p-Xylenes		10	11.0	ug/L	110	(70-130)		
LCS2	m,p-Xylenes		10	10.7	ug/L	107	(70-130)	20	2.8
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.880	ug/L	88	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.470	ug/L	94	(50-150)		
MS_201501100016	m,p-Xylenes	ND	20	21.4	ug/L	107	(70-130)		
MSD_201501100016	m,p-Xylenes	ND	20	22.3	ug/L	112	(70-130)	20	4.1
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.96	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.97	ug/L	99	(70-130)	20	0.20
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.580	ug/L	116	(50-150)		
MS_201501100016	Methyl Tert-butyl ether (MTBE)	ND	10	9.93	ug/L	99	(70-130)		
MSD_201501100016	Methyl Tert-butyl ether (MTBE)	ND	10	10.5	ug/L	105	(70-130)	20	5.6
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.28	ug/L	106	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	4.74	ug/L	95	(70-130)	20	11
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501100016	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201501100016	o-Dichlorobenzene (1,2-DCB)	ND	10	11.1	ug/L	111	(70-130)	20	7.5
LCS1	o-Xylene		5.0	4.55	ug/L	91	(70-130)		
LCS2	o-Xylene		5.0	4.39	ug/L	88	(70-130)	20	3.6
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501100016	o-Xylene	ND	10	9.41	ug/L	94	(70-130)		
MSD_201501100016	o-Xylene	ND	10	9.78	ug/L	98	(70-130)	20	3.9
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.29	ug/L	106	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.89	ug/L	98	(70-130)	20	7.9
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201501100016	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201501100016	p-Dichlorobenzene (1,4-DCB)	ND	10	10.7	ug/L	107	(70-130)	20	2.8
LCS1	Styrene		5.0	5.30	ug/L	106	(70-130)		
LCS2	Styrene		5.0	5.26	ug/L	105	(70-130)	20	0.76

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.520	ug/L	104	(50-150)		
MS_201501100016	Styrene	ND	10	6.89	ug/L	**69**	(70-130)		
MSD_201501100016	Styrene	ND	10	6.42	ug/L	**64**	(70-130)	20	7.1
LCS1	T-Butyl Alcohol		50	48.6	ug/L	97	(70-130)		
LCS2	T-Butyl Alcohol		50	47.7	ug/L	96	(70-130)	20	1.9
MBLK	T-Butyl Alcohol			<5	ug/L				
MRL_CHK	T-Butyl Alcohol		5.0	5.13	ug/L	103	(50-150)		
MS_201501100016	T-Butyl Alcohol	ND	100	91.7	ug/L	91	(70-130)		
MSD_201501100016	T-Butyl Alcohol	ND	100	96.8	ug/L	97	(70-130)	20	5.4
LCS1	tert-amyl Methyl Ether		5.0	4.77	ug/L	95	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.65	ug/L	93	(70-130)	20	2.5
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.470	ug/L	94	(50-150)		
MS_201501100016	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)		
MSD_201501100016	tert-amyl Methyl Ether	ND	10	11.0	ug/L	110	(70-130)	20	6.6
LCS1	tert-Butyl Ethyl Ether		5.0	5.11	ug/L	102	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.20	ug/L	104	(70-130)	20	1.8
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.550	ug/L	110	(50-150)		
MS_201501100016	tert-Butyl Ethyl Ether	ND	10	11.1	ug/L	111	(70-130)		
MSD_201501100016	tert-Butyl Ethyl Ether	ND	10	10.9	ug/L	109	(70-130)	20	1.8
LCS1	Tetrachloroethylene (PCE)		5.0	4.27	ug/L	85	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.55	ug/L	91	(70-130)	20	6.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
MS_201501100016	Tetrachloroethylene (PCE)	ND	10	9.64	ug/L	96	(70-130)		
MSD_201501100016	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(70-130)	20	0.10
LCS1	Toluene		5.0	4.50	ug/L	90	(70-130)		
LCS2	Toluene		5.0	4.51	ug/L	90	(70-130)	20	0.22
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201501100016	Toluene	ND	10	9.44	ug/L	94	(70-130)		
MSD_201501100016	Toluene	ND	10	9.85	ug/L	99	(70-130)	20	4.3
LCS1	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS2	Toluene-d8 (S)			106	%	106	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		
MS_201501100016	Toluene-d8 (S)			105	%	105	(70-130)		
MSD_201501100016	Toluene-d8 (S)			105	%	105	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.94	ug/L	99	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.76	ug/L	95	(70-130)	20	3.7
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
MS_201501100016	trans-1,2-Dichloroethylene	ND	10	9.46	ug/L	95	(70-130)		
MSD_201501100016	trans-1,2-Dichloroethylene	ND	10	10.1	ug/L	101	(70-130)	20	6.5
LCS1	trans-1,3-Dichloropropene		5.0	6.10	ug/L	122	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.76	ug/L	115	(70-130)	20	5.7
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201501100016	trans-1,3-Dichloropropene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201501100016	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)	20	3.6
LCS1	trans-1,4-dichloro-2-butene		5.0	3.59	ug/L	72	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	3.92	ug/L	78	(70-130)	20	8.8
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201501100016	trans-1,4-dichloro-2-butene	ND	10	9.60	ug/L	96	(70-130)		
MSD_201501100016	trans-1,4-dichloro-2-butene	ND	10	9.92	ug/L	99	(70-130)	20	3.3
LCS1	Trichloroethylene (TCE)		5.0	4.71	ug/L	94	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.67	ug/L	93	(70-130)	20	0.85
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201501100016	Trichloroethylene (TCE)	ND	10	9.65	ug/L	97	(70-130)		
MSD_201501100016	Trichloroethylene (TCE)	ND	10	9.94	ug/L	99	(70-130)	20	3.0
LCS1	Trichlorofluoromethane		5.0	4.41	ug/L	88	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.33	ug/L	87	(70-130)	20	1.8
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501100016	Trichlorofluoromethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201501100016	Trichlorofluoromethane	ND	10	11.0	ug/L	110	(70-130)	20	5.6
LCS1	Vinyl Acetate		25	30.3	ug/L	121	(70-130)		
LCS2	Vinyl Acetate		25	29.2	ug/L	117	(70-130)	20	3.7
MBLK	Vinyl Acetate			<5.0	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.18	ug/L	87	(50-150)		
MS_201501100016	Vinyl Acetate	NR	50	61.8	ug/L	124	(70-130)		
MSD_201501100016	Vinyl Acetate	NR	50	64.0	ug/L	128	(70-130)	20	3.5

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Vinyl chloride (VC)		5.0	4.95	ug/L	99	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.82	ug/L	96	(70-130)	20	2.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.530	ug/L	106	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.250	ug/L	100	(50-150)		
MS_201501100016	Vinyl chloride (VC)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201501100016	Vinyl chloride (VC)	ND	10	10.9	ug/L	109	(70-130)	20	5.7
QC Ref# 814520 - TBA by 524.3 SIM by EPA 524.3						**Analysis Date: 01/15/2015**			
CCCH	1,4-Difluorobenzene			97.4	%	97	(50-150)		
CCCL	1,4-Difluorobenzene			101	%	101	(50-150)		
CCCM	1,4-Difluorobenzene			95.5	%	96	(50-150)		
LCS1	1,4-Difluorobenzene			97.2	%	97	(50-150)		
MBLK	1,4-Difluorobenzene			97.2	%				
MBLK	1,4-Difluorobenzene			95.7	%				
MS1_201501150430	1,4-Difluorobenzene	97		96.4	%	96	(50-150)		
MSD1_201501150430	1,4-Difluorobenzene	97		97.3	%	97	(50-150)		
CCCH	methyl-t-butyl ether-d3			104	%	104	(70-130)		
CCCL	methyl-t-butyl ether-d3			96.0	%	96	(70-130)		
CCCM	methyl-t-butyl ether-d3			92.0	%	92	(70-130)		
LCS1	methyl-t-butyl ether-d3			98.0	%	98	(70-130)		
MBLK	methyl-t-butyl ether-d3			102	%				
MBLK	methyl-t-butyl ether-d3			96.0	%				
MS1_201501150430	methyl-t-butyl ether-d3	96		100	%	100	(70-130)		
MSD1_201501150430	methyl-t-butyl ether-d3	96		98.0	%	98	(70-130)		
CCCH	Tert-Butyl Alcohol (TBA)		20	19.7	ug/L	99	(70-130)		
CCCL	Tert-Butyl Alcohol (TBA)		1.0	1.20	ug/L	120	(50-150)		
CCCM	Tert-Butyl Alcohol (TBA)		10	10.2	ug/L	102	(70-130)		
LCS1	Tert-Butyl Alcohol (TBA)		10	11.0	ug/L	110	(70-130)		
MBLK	Tert-Butyl Alcohol (TBA)			<1.0	ug/L				
MBLK	Tert-Butyl Alcohol (TBA)			<1.0	ug/L				
MS1_201501150430	Tert-Butyl Alcohol (TBA)	ND	10	9.84	ug/L	98	(70-130)		
MSD1_201501150430	Tert-Butyl Alcohol (TBA)	ND	10	10.6	ug/L	105	(70-130)	30	7.4
QC Ref# 814739 - EPA Method 504.1 by EPA 504.1						**Analysis Date: 01/15/2015**			
CCCH	1,2,3-Trichloropropane		1.3	0.991	ug/L	79	(70-130)		
CCCM2	1,2,3-Trichloropropane		0.25	0.250	ug/L	100	(70-130)		
CCCM2	1,2,3-Trichloropropane		0.25	0.253	ug/L	101	(70-130)		
DUP_201501130203	1,2,3-Trichloropropane	ND		ND	ug/L		(0-20)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,3-Trichloropropane		0.2	0.231	ug/L	115	(70-130)		
MBLK	1,2,3-Trichloropropane			<0.04	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.05	0.0622	ug/L	124	(60-140)		
MRLLW	1,2,3-Trichloropropane		0.04	0.0503	ug/L	126	(60-140)		
MS_201501130205	1,2,3-Trichloropropane	ND	1.3	1.05	ug/L	84	(65-135)		
CCCH	1,2-Dibromo-3-chloropropane		0.25	0.246	ug/L	98	(70-130)		
CCCM2	1,2-Dibromo-3-chloropropane		0.05	0.0518	ug/L	104	(70-130)		
CCCM2	1,2-Dibromo-3-chloropropane		0.05	0.0521	ug/L	104	(70-130)		
DUP_201501130203	1,2-Dibromo-3-chloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromo-3-chloropropane		0.2	0.209	ug/L	105	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0113	ug/L	113	(60-140)		
MS_201501130205	1,2-Dibromo-3-chloropropane	ND	0.25	0.262	ug/L	105	(65-135)		
CCCH	1,2-Dibromoethane		0.25	0.243	ug/L	97	(70-130)		
CCCM2	1,2-Dibromoethane		0.05	0.0498	ug/L	100	(70-130)		
CCCM2	1,2-Dibromoethane		0.05	0.0488	ug/L	98	(70-130)		
DUP_201501130203	1,2-Dibromoethane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromoethane		0.2	0.219	ug/L	109	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00870	ug/L	87	(60-140)		
MS_201501130205	1,2-Dibromoethane	ND	0.25	0.265	ug/L	106	(65-135)		
CCCH	1,2-Dibromopropane (S)			106	%	106	(60-140)		
CCCM2	1,2-Dibromopropane (S)			102	%	102	(60-140)		
CCCM2	1,2-Dibromopropane (S)			102	%	102	(60-140)		
DUP_201501130203	1,2-Dibromopropane (S)			98.5	%	99	(60-140)		
LCS2	1,2-Dibromopropane (S)			107	%	107	(60-140)		
MBLK	1,2-Dibromopropane (S)			103	%	103	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			106	%	106	(60-140)		
MRLLW	1,2-Dibromopropane (S)			95.2	%	95	(60-140)		
MS_201501130205	1,2-Dibromopropane (S)			101	%	101	(60-140)		
QC Ref# 814769 - MTBE by 524.3 SIM by EPA 524.3						**Analysis Date: 01/15/2015**			
CCCH	1,4-Difluorobenzene			96.7	%	97	(50-150)		
CCCL	1,4-Difluorobenzene			96.7	%	97	(50-150)		
CCCM	1,4-Difluorobenzene			99.5	%	100	(50-150)		
LCS1	1,4-Difluorobenzene			99.4	%	99	(50-150)		
MBLK	1,4-Difluorobenzene			98.0	%				
MBLK	1,4-Difluorobenzene			98.0	%				
MS_201501070292	1,4-Difluorobenzene	100		98.4	%	98	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501070292	1,4-Difluorobenzene	100		97.9	%	98	(50-150)		
CCCH	Methyl-t-Butyl Ether (MTBE)		1000	1030	ng/L	103	(70-130)		
CCCL	Methyl-t-Butyl Ether (MTBE)		20	21.9	ng/L	110	(50-150)		
CCCM	Methyl-t-Butyl Ether (MTBE)		500	512	ng/L	102	(70-130)		
LCS1	Methyl-t-Butyl Ether (MTBE)		500	525	ng/L	105	(70-130)		
MBLK	Methyl-t-Butyl Ether (MTBE)			<20	ng/L				
MBLK	Methyl-t-Butyl Ether (MTBE)			<20	ng/L				
MS_201501070292	Methyl-t-Butyl Ether (MTBE)	90.4	20	117	ng/L	134	(50-150)		
MSD_201501070292	Methyl-t-Butyl Ether (MTBE)	90.4	20	120	ng/L	148	(50-150)	20	2.5
CCCH	methyl-t-butyl ether-d3			100	%	100	(70-130)		
CCCL	methyl-t-butyl ether-d3			100	%	100	(70-130)		
CCCM	methyl-t-butyl ether-d3			104	%	104	(70-130)		
LCS1	methyl-t-butyl ether-d3			100	%	100	(70-130)		
MBLK	methyl-t-butyl ether-d3			104	%				
MBLK	methyl-t-butyl ether-d3			100	%				
MS_201501070292	methyl-t-butyl ether-d3	98		100	%	100	(70-130)		
MSD_201501070292	methyl-t-butyl ether-d3	98		104	%	104	(70-130)		
QC Ref# 815087 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 01/13/2015**			
CCCH	Alachlor (Alanex)		1.0	1.05	ug/L	105	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.06	ug/L	106	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.09	ug/L	109	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.02	ug/L	102	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.0856	ug/L	86	(50-150)		
MS1_201501090016	Alachlor (Alanex)	ND	0.2	0.202	ug/L	101	(65-135)		
MS2_201501080144	Alachlor (Alanex)	ND	1.0	1.04	ug/L	104	(65-135)		
CCCH	Aldrin		0.1	0.108	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.102	ug/L	102	(70-130)		
CCCH	Aldrin		0.1	0.108	ug/L	109	(70-130)		
LCS1	Aldrin		0.1	0.109	ug/L	109	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.00990	ug/L	99	(50-150)		
MS1_201501090016	Aldrin	ND	0.02	0.0225	ug/L	113	(65-135)		
MS2_201501080144	Aldrin	ND	0.1	0.104	ug/L	104	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.0997	ug/L	100	(70-130)		
CCCH	Dieldrin		0.1	0.104	ug/L	104	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Dieldrin		0.1	0.102	ug/L	102	(70-130)		
LCS1	Dieldrin		0.1	0.0906	ug/L	91	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.00910	ug/L	91	(50-150)		
MS1_201501090016	Dieldrin	ND	0.02	0.0175	ug/L	88	(65-135)		
MS2_201501080144	Dieldrin	ND	0.1	0.0989	ug/L	99	(65-135)		
CCCH	Endrin		0.1	0.101	ug/L	101	(70-130)		
CCCH	Endrin		0.1	0.108	ug/L	108	(70-130)		
CCCH	Endrin		0.1	0.101	ug/L	101	(70-130)		
LCS1	Endrin		0.1	0.0941	ug/L	94	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0100	ug/L	100	(50-150)		
MS1_201501090016	Endrin	ND	0.02	0.0197	ug/L	99	(65-135)		
MS2_201501080144	Endrin	ND	0.1	0.0998	ug/L	100	(65-135)		
CCCH	Heptachlor		0.1	0.112	ug/L	112	(70-130)		
CCCH	Heptachlor		0.1	0.108	ug/L	108	(70-130)		
CCCH	Heptachlor		0.1	0.102	ug/L	102	(70-130)		
LCS1	Heptachlor		0.1	0.105	ug/L	105	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00980	ug/L	98	(50-150)		
MS1_201501090016	Heptachlor	ND	0.02	0.0206	ug/L	103	(65-135)		
MS2_201501080144	Heptachlor	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.105	ug/L	105	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.0970	ug/L	97	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0102	ug/L	102	(50-150)		
MS1_201501090016	Heptachlor Epoxide	ND	0.02	0.0218	ug/L	103	(65-135)		
MS2_201501080144	Heptachlor Epoxide	ND	0.1	0.0997	ug/L	100	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.105	ug/L	105	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.100	ug/L	100	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.101	ug/L	101	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0931	ug/L	93	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0105	ug/L	105	(50-150)		
MS1_201501090016	Lindane (gamma-BHC)	ND	0.02	0.0188	ug/L	94	(65-135)		
MS2_201501080144	Lindane (gamma-BHC)	ND	0.1	0.102	ug/L	101	(65-135)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Methoxychlor		0.5	0.518	ug/L	104	(70-130)		
CCCH	Methoxychlor		0.5	0.519	ug/L	104	(70-130)		
CCCH	Methoxychlor		0.5	0.517	ug/L	103	(70-130)		
LCS1	Methoxychlor		0.5	0.484	ug/L	97	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0527	ug/L	105	(50-150)		
MS1_201501090016	Methoxychlor	ND	0.1	0.112	ug/L	112	(65-135)		
MS2_201501080144	Methoxychlor	ND	0.5	0.479	ug/L	96	(65-135)		
CCCH	PCB 1016 Aroclor		0.5	0.536	ug/L	107	(70-130)		
LCS1	PCB 1016 Aroclor		0.5	0.485	ug/L	97	(70-130)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MRL_CHK	PCB 1016 Aroclor		0.07	0.0580	ug/L	83	(50-150)		
MS2_201501080144	PCB 1016 Aroclor	ND	0.5	0.484	ug/L	97	(65-135)		
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
CCCH	PCB 1260 Aroclor		0.5	0.499	ug/L	100	(70-130)		
LCS1	PCB 1260 Aroclor		0.5	0.532	ug/L	106	(70-130)		
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
MRL_CHK	PCB 1260 Aroclor		0.07	0.0563	ug/L	80	(50-150)		
MS2_201501080144	PCB 1260 Aroclor	ND	0.5	0.547	ug/L	109	(65-135)		
CCCH	Tetrachlorometaxylene (S)			105	%	105	(70-130)		
CCCH	Tetrachlorometaxylene (S)			105	%	105	(70-130)		
CCCH	Tetrachlorometaxylene (S)			108	%	108	(70-130)		
LCS1	Tetrachlorometaxylene (S)			103	%	103	(70-130)		
MBLK	Tetrachlorometaxylene (S)			110	%	110	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			99.6	%	100	(70-130)		
MS1_201501090016	Tetrachlorometaxylene (S)			93.8	%	94	(70-130)		
MS2_201501080144	Tetrachlorometaxylene (S)			97.9	%	98	(70-130)		
CCCH	Toxaphene		2.5	2.61	ug/L	104	(70-130)		
LCS1	Toxaphene		2.5	2.72	ug/L	109	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.494	ug/L	99	(50-150)		
MS1_201501090016	Toxaphene		2.5	2.78	ug/L	111	(65-135)		
QC Ref# 815095 - MTBE by 524.3 SIM by EPA 524.3						**Analysis Date: 01/16/2015**			
CCCH	1,4-Difluorobenzene			99.1	%	99	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	1,4-Difluorobenzene			97.8	%	98	(50-150)		
CCCM	1,4-Difluorobenzene			97.8	%	98	(50-150)		
LCS1	1,4-Difluorobenzene			99.9	%	100	(50-150)		
MBLK	1,4-Difluorobenzene			93.8	%				
MBLK	1,4-Difluorobenzene			92.7	%				
MS1_201501130682	1,4-Difluorobenzene	94		97.6	%	98	(50-150)		
MSD1_201501130682	1,4-Difluorobenzene	94		91.4	%	91	(50-150)		
CCCH	Methyl-t-Butyl Ether (MTBE)		1000	1090	ng/L	109	(70-130)		
CCCL	Methyl-t-Butyl Ether (MTBE)		20	19.6	ng/L	98	(50-150)		
CCCM	Methyl-t-Butyl Ether (MTBE)		500	486	ng/L	97	(70-130)		
LCS1	Methyl-t-Butyl Ether (MTBE)		500	490	ng/L	98	(70-130)		
MBLK	Methyl-t-Butyl Ether (MTBE)			<20	ng/L				
MBLK	Methyl-t-Butyl Ether (MTBE)			<20	ng/L				
MS1_201501130682	Methyl-t-Butyl Ether (MTBE)	46.5	500	611	ng/L	113	(70-130)		
MSD1_201501130682	Methyl-t-Butyl Ether (MTBE)	46.5	500	677	ng/L	126	(70-130)	30	10
CCCH	methyl-t-butyl ether-d3			108	%	108	(70-130)		
CCCL	methyl-t-butyl ether-d3			104	%	104	(70-130)		
CCCM	methyl-t-butyl ether-d3			104	%	104	(70-130)		
LCS1	methyl-t-butyl ether-d3			108	%	108	(70-130)		
MBLK	methyl-t-butyl ether-d3			108	%				
MBLK	methyl-t-butyl ether-d3			104	%				
MS1_201501130682	methyl-t-butyl ether-d3	102		104	%	104	(70-130)		
MSD1_201501130682	methyl-t-butyl ether-d3	102		106	%	106	(70-130)		
QC Ref# 815475 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 01/20/2015**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			99.1	%	99	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			101	%	101	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			101	%	101	(70-130)		
MS_201501080544	1,3-Dimethyl-2-nitrobenzene (S)			104	%	104	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.92	ug/L	96	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	2.02	ug/L	101	(70-130)	20	5.1
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.108	ug/L	108	(50-150)		
MS_201501080544	2,4-Dinitrotoluene	ND	2.0	1.82	ug/L	91	(70-130)		
LCS1	2,6-Dinitrotoluene		2.0	2.00	ug/L	100	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	2.03	ug/L	101	(70-130)	20	1.5
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	2,6-Dinitrotoluene		0.1	0.0970	ug/L	97	(50-150)		
MS_201501080544	2,6-Dinitrotoluene	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	4,4-DDD		2.0	2.11	ug/L	105	(70-130)		
LCS2	4,4-DDD		2.0	2.24	ug/L	112	(70-130)	20	6.0
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0880	ug/L	88	(50-150)		
MS_201501080544	4,4-DDD	ND	2.0	2.36	ug/L	118	(70-130)		
LCS1	4,4-DDE		2.0	1.92	ug/L	96	(70-130)		
LCS2	4,4-DDE		2.0	2.06	ug/L	103	(70-130)	20	7.0
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.115	ug/L	115	(50-150)		
MS_201501080544	4,4-DDE	ND	2.0	2.25	ug/L	112	(70-130)		
LCS1	4,4-DDT		2.0	1.89	ug/L	94	(70-130)		
LCS2	4,4-DDT		2.0	2.00	ug/L	100	(70-130)	20	5.7
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0950	ug/L	95	(50-150)		
MS_201501080544	4,4-DDT	ND	2.0	2.08	ug/L	104	(70-130)		
LCS1	Acenaphthene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Acenaphthene		2.0	1.96	ug/L	98	(70-130)	20	4.2
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0980	ug/L	98	(50-150)		
MS_201501080544	Acenaphthene	ND	2.0	2.01	ug/L	100	(70-130)		
LCS1	Acenaphthene-d10 (I)			86.9	%	87	(50-150)		
LCS2	Acenaphthene-d10 (I)			91.0	%	91	(50-150)		
MBLK	Acenaphthene-d10 (I)			90.9	%	91	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			85.4	%	85	(50-150)		
MS_201501080544	Acenaphthene-d10 (I)			72.1	%	72	(50-150)		
LCS1	Acenaphthylene		2.0	1.84	ug/L	92	(70-130)		
LCS2	Acenaphthylene		2.0	1.93	ug/L	97	(70-130)	20	4.8
MBLK	Acenaphthylene			<0.05	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0760	ug/L	76	(50-150)		
MS_201501080544	Acenaphthylene	ND	2.0	1.92	ug/L	96	(70-130)		
LCS1	Acetochlor		2.0	2.15	ug/L	107	(70-130)		
LCS2	Acetochlor		2.0	2.16	ug/L	108	(70-130)	20	0.46
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0410	ug/L	82	(50-150)		
MS_201501080544	Acetochlor	ND	2.0	2.32	ug/L	116	(70-130)		
LCS1	Alachlor		2.0	2.12	ug/L	106	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Alachlor		2.0	2.28	ug/L	114	(70-130)	20	7.3
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0470	ug/L	94	(50-150)		
MS_201501080544	Alachlor	ND	2.0	2.44	ug/L	122	(70-130)		
LCS1	Aldrin		2.0	1.83	ug/L	92	(70-130)		
LCS2	Aldrin		2.0	1.98	ug/L	99	(70-130)	20	7.9
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0410	ug/L	82	(50-150)		
MS_201501080544	Aldrin	ND	2.0	2.08	ug/L	104	(70-130)		
LCS1	Alpha-BHC		2.0	1.94	ug/L	97	(70-130)		
LCS2	Alpha-BHC		2.0	2.03	ug/L	102	(70-130)	20	4.5
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.0920	ug/L	92	(50-150)		
MS_201501080544	Alpha-BHC	ND	2.0	2.10	ug/L	105	(70-130)		
LCS1	alpha-Chlordane		2.0	1.92	ug/L	96	(70-130)		
LCS2	alpha-Chlordane		2.0	2.03	ug/L	102	(70-130)	20	5.6
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0440	ug/L	88	(50-150)		
MS_201501080544	alpha-Chlordane	ND	2.0	2.35	ug/L	118	(70-130)		
LCS1	Anthracene		2.0	1.83	ug/L	92	(70-130)		
LCS2	Anthracene		2.0	1.86	ug/L	93	(70-130)	20	1.6
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0200	ug/L	100	(50-150)		
MS_201501080544	Anthracene	ND	2.0	1.93	ug/L	97	(70-130)		
LCS1	Atrazine		2.0	2.00	ug/L	100	(70-130)		
LCS2	Atrazine		2.0	2.07	ug/L	103	(70-130)	20	3.4
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0390	ug/L	78	(50-150)		
MS_201501080544	Atrazine	ND	2.0	2.15	ug/L	108	(70-130)		
LCS1	Benz(a)Anthracene		2.0	1.90	ug/L	95	(70-130)		
LCS2	Benz(a)Anthracene		2.0	1.98	ug/L	99	(70-130)	20	4.1
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0470	ug/L	94	(50-150)		
MS_201501080544	Benz(a)Anthracene	ND	2.0	2.07	ug/L	104	(70-130)		
LCS1	Benzo(a)pyrene		2.0	2.22	ug/L	111	(70-130)		
LCS2	Benzo(a)pyrene		2.0	2.23	ug/L	111	(70-130)	20	0.45
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0180	ug/L	90	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501080544	Benzo(a)pyrene	ND	2.0	2.25	ug/L	112	(70-130)		
LCS1	Benzo(b)Fluoranthene		2.0	2.30	ug/L	115	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	2.46	ug/L	123	(70-130)	20	6.7
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0190	ug/L	95	(50-150)		
MS_201501080544	Benzo(b)Fluoranthene	ND	2.0	2.31	ug/L	116	(70-130)		
LCS1	Benzo(g,h,i)Perylene		2.0	2.50	ug/L	125	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	2.68	ug/L	**134**	(70-130)	20	6.5
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0460	ug/L	92	(50-150)		
MS_201501080544	Benzo(g,h,i)Perylene	ND	2.0	2.46	ug/L	123	(70-130)		
LCS1	Benzo(k)Fluoranthene		2.0	2.39	ug/L	120	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	2.27	ug/L	114	(70-130)	20	5.2
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0200	ug/L	100	(50-150)		
MS_201501080544	Benzo(k)Fluoranthene	ND	2.0	2.36	ug/L	118	(70-130)		
LCS1	Beta-BHC		2.0	2.00	ug/L	100	(70-130)		
LCS2	Beta-BHC		2.0	2.14	ug/L	107	(70-130)	20	6.8
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.0950	ug/L	95	(50-150)		
MS_201501080544	Beta-BHC	ND	2.0	2.28	ug/L	114	(70-130)		
LCS1	Bromacil		2.0	2.10	ug/L	105	(70-130)		
LCS2	Bromacil		2.0	2.17	ug/L	108	(70-130)	20	3.3
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.0890	ug/L	89	(50-150)		
MS_201501080544	Bromacil	ND	2.0	2.26	ug/L	113	(70-130)		
LCS1	Butachlor		2.0	2.08	ug/L	104	(70-130)		
LCS2	Butachlor		2.0	2.12	ug/L	106	(70-130)	20	2.4
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0660	ug/L	132	(50-150)		
MS_201501080544	Butachlor	ND	2.0	2.33	ug/L	117	(70-130)		
LCS1	Butylbenzylphthalate		2.0	2.17	ug/L	109	(70-130)		
LCS2	Butylbenzylphthalate		2.0	2.30	ug/L	115	(70-130)	20	5.8
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.159	ug/L	106	(50-150)		
MS_201501080544	Butylbenzylphthalate	ND	2.0	2.42	ug/L	121	(70-130)		
LCS1	Caffeine by method 525mod		2.0	1.93	ug/L	97	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.83	ug/L	92	(45-137)	20	5.3

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0460	ug/L	92	(50-150)		
MS_201501080544	Caffeine by method 525mod	ND	2.0	1.74	ug/L	87	(46-144)		
LCS1	Chlorobenzilate		2.0	2.05	ug/L	102	(70-130)		
LCS2	Chlorobenzilate		2.0	2.13	ug/L	106	(70-130)	20	3.8
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.0840	ug/L	84	(50-150)		
MS_201501080544	Chlorobenzilate	ND	2.0	2.25	ug/L	112	(70-130)		
LCS1	Chloroneb		2.0	1.89	ug/L	95	(70-130)		
LCS2	Chloroneb		2.0	1.94	ug/L	97	(70-130)	20	2.6
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.102	ug/L	102	(50-150)		
MS_201501080544	Chloroneb	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	1.97	ug/L	99	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	2.01	ug/L	100	(70-130)	20	2.0
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0400	ug/L	80	(50-150)		
MS_201501080544	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.10	ug/L	105	(70-130)		
LCS1	Chlorpyrifos (Dursban)		2.0	2.05	ug/L	102	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	2.10	ug/L	105	(70-130)	20	2.4
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0400	ug/L	80	(50-150)		
MS_201501080544	Chlorpyrifos (Dursban)	ND	2.0	2.32	ug/L	116	(70-130)		
LCS1	Chrysene		2.0	1.90	ug/L	95	(70-130)		
LCS2	Chrysene		2.0	1.99	ug/L	100	(70-130)	20	4.6
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0180	ug/L	90	(50-150)		
MS_201501080544	Chrysene	ND	2.0	1.99	ug/L	100	(70-130)		
LCS1	Chrysene-d12 (I)			87.6	%	88	(50-150)		
LCS2	Chrysene-d12 (I)			96.6	%	97	(50-150)		
MBLK	Chrysene-d12 (I)			89.1	%	89	(50-150)		
MRL_CHK	Chrysene-d12 (I)			85.2	%	85	(50-150)		
MS_201501080544	Chrysene-d12 (I)			82.3	%	82	(50-150)		
LCS1	Delta-BHC		2.0	1.98	ug/L	99	(70-130)		
LCS2	Delta-BHC		2.0	2.04	ug/L	102	(70-130)	20	3.0
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.102	ug/L	102	(50-150)		
MS_201501080544	Delta-BHC	ND	2.0	2.15	ug/L	108	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Di-(2-Ethylhexyl)adipate		2.0	1.78	ug/L	89	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	1.90	ug/L	95	(70-130)	20	6.5
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.275	ug/L	92	(50-150)		
MS_201501080544	Di-(2-Ethylhexyl)adipate	ND	2.0	2.10	ug/L	105	(70-130)		
LCS1	Di(2-Ethylhexyl)phthalate		2.0	2.01	ug/L	100	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	2.08	ug/L	104	(70-130)	20	3.4
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.559	ug/L	93	(50-150)		
MS_201501080544	Di(2-Ethylhexyl)phthalate	ND	2.0	2.21	ug/L	110	(70-130)		
LCS1	Diazinon (Qualitative)		2.0	1.29	ug/L	**64**	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.40	ug/L	70	(70-130)	20	8.2
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0580	ug/L	58	(50-150)		
MS_201501080544	Diazinon (Qualitative)	ND	2.0	1.10	ug/L	**55**	(70-130)		
LCS1	Dibenz(a,h)Anthracene		2.0	2.62	ug/L	**131**	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	2.72	ug/L	**136**	(70-130)	20	3.8
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0530	ug/L	106	(50-150)		
MS_201501080544	Dibenz(a,h)Anthracene	ND	2.0	2.49	ug/L	125	(70-130)		
LCS1	Dichlorvos (DDVP)		2.0	1.93	ug/L	96	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	2.02	ug/L	101	(70-130)	20	4.6
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0460	ug/L	92	(50-150)		
MS_201501080544	Dichlorvos (DDVP)	ND	2.0	2.09	ug/L	105	(70-130)		
LCS1	Dieldrin		2.0	2.12	ug/L	106	(70-130)		
LCS2	Dieldrin		2.0	2.13	ug/L	106	(70-130)	20	0.47
MBLK	Dieldrin			<0.05	ug/L				
MRL_CHK	Dieldrin		0.1	0.101	ug/L	101	(50-150)		
MS_201501080544	Dieldrin	ND	2.0	2.32	ug/L	116	(70-130)		
LCS1	Diethylphthalate		2.0	2.02	ug/L	101	(70-130)		
LCS2	Diethylphthalate		2.0	2.12	ug/L	106	(70-130)	20	4.8
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.158	ug/L	105	(50-150)		
MS_201501080544	Diethylphthalate	ND	2.0	2.16	ug/L	108	(70-130)		
LCS1	Dimethoate		2.0	1.46	ug/L	73	(35-100)		
LCS2	Dimethoate		2.0	1.44	ug/L	72	(35-100)	20	1.4
MBLK	Dimethoate			<0.05	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dimethoate		0.1	0.0620	ug/L	62	(35-100)		
MS_201501080544	Dimethoate	ND	2.0	1.34	ug/L	67	(34-111)		
LCS1	Dimethylphthalate		2.0	1.94	ug/L	97	(70-130)		
LCS2	Dimethylphthalate		2.0	2.05	ug/L	103	(70-130)	20	5.5
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.293	ug/L	98	(50-150)		
MS_201501080544	Dimethylphthalate	ND	2.0	2.08	ug/L	104	(70-130)		
LCS1	Di-n-Butylphthalate		4.0	4.22	ug/L	106	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	4.42	ug/L	110	(70-130)	20	4.6
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.312	ug/L	104	(50-150)		
MS_201501080544	Di-n-Butylphthalate	ND	4.0	4.75	ug/L	119	(70-130)		
LCS1	Di-N-octylphthalate		2.0	1.86	ug/L	93	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.98	ug/L	99	(70-130)	20	6.3
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.0860	ug/L	86	(50-150)		
MS_201501080544	Di-N-octylphthalate	ND	2.0	2.04	ug/L	102	(70-130)		
LCS1	Endosulfan I (Alpha)		2.0	1.96	ug/L	98	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	2.02	ug/L	101	(70-130)	20	3.0
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0970	ug/L	97	(50-150)		
MS_201501080544	Endosulfan I (Alpha)	ND	2.0	2.25	ug/L	113	(70-130)		
LCS1	Endosulfan II (Beta)		2.0	2.09	ug/L	105	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	1.99	ug/L	100	(70-130)	20	4.9
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.126	ug/L	126	(50-150)		
MS_201501080544	Endosulfan II (Beta)	ND	2.0	2.11	ug/L	106	(70-130)		
LCS1	Endosulfan Sulfate		2.0	2.03	ug/L	102	(70-130)		
LCS2	Endosulfan Sulfate		2.0	2.19	ug/L	110	(70-130)	20	7.6
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.0840	ug/L	84	(50-150)		
MS_201501080544	Endosulfan Sulfate	ND	2.0	2.28	ug/L	114	(70-130)		
LCS1	Endrin		2.0	2.22	ug/L	111	(70-130)		
LCS2	Endrin		2.0	2.24	ug/L	112	(70-130)	20	0.90
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.108	ug/L	108	(50-150)		
MS_201501080544	Endrin	ND	2.0	2.38	ug/L	119	(70-130)		
LCS1	Endrin Aldehyde		2.0	2.03	ug/L	102	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Endrin Aldehyde		2.0	2.10	ug/L	105	(70-130)	20	3.4
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.140	ug/L	140	(50-150)		
MS_201501080544	Endrin Aldehyde	ND	2.0	2.22	ug/L	111	(70-130)		
LCS1	EPTC		2.0	1.89	ug/L	94	(70-130)		
LCS2	EPTC		2.0	1.98	ug/L	99	(70-130)	20	4.7
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.0980	ug/L	98	(50-150)		
MS_201501080544	EPTC	ND	2.0	2.10	ug/L	105	(70-130)		
LCS1	Fluoranthene		2.0	1.94	ug/L	97	(70-130)		
LCS2	Fluoranthene		2.0	2.05	ug/L	102	(70-130)	20	5.5
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0440	ug/L	88	(50-150)		
MS_201501080544	Fluoranthene	ND	2.0	2.15	ug/L	107	(70-130)		
LCS1	Fluorene		2.0	1.94	ug/L	97	(70-130)		
LCS2	Fluorene		2.0	2.01	ug/L	101	(70-130)	20	3.5
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0490	ug/L	98	(50-150)		
MS_201501080544	Fluorene	ND	2.0	2.04	ug/L	102	(70-130)		
LCS1	gamma-Chlordane		2.0	2.05	ug/L	103	(70-130)		
LCS2	gamma-Chlordane		2.0	2.18	ug/L	109	(70-130)	20	6.2
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0420	ug/L	84	(50-150)		
MS_201501080544	gamma-Chlordane	ND	2.0	2.35	ug/L	117	(70-130)		
LCS1	Heptachlor		2.0	2.04	ug/L	102	(70-130)		
LCS2	Heptachlor		2.0	2.22	ug/L	111	(70-130)	20	8.4
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0270	ug/L	68	(50-150)		
MS_201501080544	Heptachlor	ND	2.0	2.21	ug/L	110	(70-130)		
LCS1	Heptachlor Epoxide (isomer B)		2.0	2.10	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	2.16	ug/L	108	(70-130)	20	2.8
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0540	ug/L	108	(50-150)		
MS_201501080544	Heptachlor Epoxide (isomer B)	ND	2.0	2.34	ug/L	117	(70-130)		
LCS1	Hexachlorobenzene		2.0	1.92	ug/L	96	(70-130)		
LCS2	Hexachlorobenzene		2.0	2.02	ug/L	101	(70-130)	20	5.1
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0490	ug/L	98	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501080544	Hexachlorobenzene	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Hexachlorocyclopentadiene		2.0	1.86	ug/L	93	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	1.98	ug/L	99	(70-130)	20	6.3
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0400	ug/L	80	(50-150)		
MS_201501080544	Hexachlorocyclopentadiene	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	2.56	ug/L	128	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	2.66	ug/L	**133**	(70-130)	20	3.8
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0510	ug/L	102	(50-150)		
MS_201501080544	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.55	ug/L	128	(70-130)		
LCS1	Isophorone		2.0	1.86	ug/L	93	(70-130)		
LCS2	Isophorone		2.0	1.94	ug/L	97	(70-130)	20	4.2
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.0950	ug/L	95	(50-150)		
MS_201501080544	Isophorone	ND	2.0	2.21	ug/L	111	(70-130)		
LCS1	Lindane		2.0	1.99	ug/L	100	(70-130)		
LCS2	Lindane		2.0	2.12	ug/L	106	(70-130)	20	6.3
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0450	ug/L	113	(50-150)		
MS_201501080544	Lindane	ND	2.0	2.16	ug/L	108	(70-130)		
LCS1	Malathion		2.0	2.00	ug/L	100	(70-130)		
LCS2	Malathion		2.0	2.11	ug/L	106	(70-130)	20	4.8
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.104	ug/L	104	(50-150)		
MS_201501080544	Malathion	ND	2.0	2.27	ug/L	114	(70-130)		
LCS1	Methoxychlor		2.0	2.08	ug/L	104	(70-130)		
LCS2	Methoxychlor		2.0	2.06	ug/L	103	(70-130)	20	1.5
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.0950	ug/L	95	(50-150)		
MS_201501080544	Methoxychlor	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Metolachlor		2.0	2.16	ug/L	108	(70-130)		
LCS2	Metolachlor		2.0	2.23	ug/L	112	(70-130)	20	3.2
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0470	ug/L	94	(50-150)		
MS_201501080544	Metolachlor	ND	2.0	2.48	ug/L	124	(70-130)		
LCS1	Metribuzin		2.0	1.80	ug/L	90	(70-130)		
LCS2	Metribuzin		2.0	1.86	ug/L	93	(70-130)	20	3.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0510	ug/L	102	(50-150)		
MS_201501080544	Metribuzin	ND	2.0	1.86	ug/L	93	(70-130)		
LCS1	Molinate		2.0	1.99	ug/L	100	(70-130)		
LCS2	Molinate		2.0	2.10	ug/L	105	(70-130)	20	5.4
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.100	ug/L	100	(50-150)		
MS_201501080544	Molinate	ND	2.0	2.17	ug/L	109	(70-130)		
LCS1	Naphthalene		2.0	1.77	ug/L	89	(70-130)		
LCS2	Naphthalene		2.0	1.81	ug/L	91	(70-130)	20	2.2
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.105	ug/L	105	(50-150)		
MS_201501080544	Naphthalene	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Parathion		2.0	2.07	ug/L	103	(70-130)		
LCS2	Parathion		2.0	2.14	ug/L	107	(70-130)	20	3.8
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.0810	ug/L	81	(50-150)		
MS_201501080544	Parathion	ND	2.0	2.37	ug/L	118	(70-130)		
LCS1	Pendimethalin		2.0	1.91	ug/L	96	(70-130)		
LCS2	Pendimethalin		2.0	1.97	ug/L	98	(70-130)	20	3.1
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.102	ug/L	102	(50-150)		
MS_201501080544	Pendimethalin	ND	2.0	2.11	ug/L	105	(70-130)		
LCS1	Pentachlorophenol		8.0	6.14	ug/L	77	(70-130)		
LCS2	Pentachlorophenol		8.0	7.15	ug/L	89	(70-130)	20	15
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.508	ug/L	102	(50-150)		
MS_201501080544	Pentachlorophenol	ND	8.0	5.92	ug/L	74	(70-130)		
LCS1	Permethrin (mixed isomers)		4.0	4.03	ug/L	101	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	4.17	ug/L	104	(70-130)	20	3.4
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.186	ug/L	124	(50-150)		
MS_201501080544	Permethrin (mixed isomers)	ND	4.0	4.20	ug/L	105	(70-130)		
LCS1	Perylene-d12 (S)			108	%	108	(70-130)		
LCS2	Perylene-d12 (S)			108	%	108	(70-130)		
MBLK	Perylene-d12 (S)			86.9	%	87	(70-130)		
MRL_CHK	Perylene-d12 (S)			91.3	%	91	(70-130)		
MS_201501080544	Perylene-d12 (S)			106	%	106	(70-130)		

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Laboratory QC
Report: 515305

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Phenanthrene		2.0	1.90	ug/L	95	(70-130)		
LCS2	Phenanthrene		2.0	1.94	ug/L	97	(70-130)	20	2.1
MBLK	Phenanthrene			<0.02	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0210	ug/L	105	(50-150)		
MS_201501080544	Phenanthrene	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Phenanthrene-d10 (I)			87.9	%	88	(50-150)		
LCS2	Phenanthrene-d10 (I)			93.1	%	93	(50-150)		
MBLK	Phenanthrene-d10 (I)			90.9	%	91	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			85.2	%	85	(50-150)		
MS_201501080544	Phenanthrene-d10 (I)			74.6	%	75	(50-150)		
LCS1	Propachlor		2.0	1.95	ug/L	98	(70-130)		
LCS2	Propachlor		2.0	1.99	ug/L	100	(70-130)	20	2.0
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0600	ug/L	120	(50-150)		
MS_201501080544	Propachlor	ND	2.0	2.10	ug/L	105	(70-130)		
LCS1	Pyrene		2.0	1.99	ug/L	100	(70-130)		
LCS2	Pyrene		2.0	2.09	ug/L	105	(70-130)	20	4.9
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0470	ug/L	94	(50-150)		
MS_201501080544	Pyrene	ND	2.0	2.20	ug/L	110	(70-130)		
LCS1	Simazine		2.0	2.08	ug/L	104	(70-130)		
LCS2	Simazine		2.0	2.17	ug/L	108	(70-130)	20	4.2
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0330	ug/L	66	(50-150)		
MS_201501080544	Simazine	ND	2.0	2.32	ug/L	116	(70-130)		
LCS1	Terbacil		2.0	2.08	ug/L	104	(70-130)		
LCS2	Terbacil		2.0	2.18	ug/L	109	(70-130)	20	4.7
MBLK	Terbacil			<0.05	ug/L				
MRL_CHK	Terbacil		0.1	0.112	ug/L	112	(50-150)		
MS_201501080544	Terbacil	ND	2.0	2.28	ug/L	114	(70-130)		
LCS1	Terbuthylazine		2.0	2.04	ug/L	102	(70-130)		
LCS2	Terbuthylazine		2.0	2.14	ug/L	107	(70-130)	20	4.8
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.0850	ug/L	85	(50-150)		
MS_201501080544	Terbuthylazine	ND	2.0	2.37	ug/L	119	(70-130)		
LCS1	Thiobencarb		2.0	2.08	ug/L	104	(70-130)		
LCS2	Thiobencarb		2.0	2.15	ug/L	107	(70-130)	20	2.8
MBLK	Thiobencarb			<0.1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Thiobencarb		0.1	0.0890	ug/L	89	(50-150)		
MS_201501080544	Thiobencarb	ND	2.0	2.36	ug/L	118	(70-130)		
LCS1	trans-Nonachlor		2.0	2.04	ug/L	102	(70-130)		
LCS2	trans-Nonachlor		2.0	2.11	ug/L	106	(70-130)	20	3.4
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0530	ug/L	106	(50-150)		
MS_201501080544	trans-Nonachlor	ND	2.0	2.32	ug/L	116	(70-130)		
LCS1	Trifluralin		2.0	1.85	ug/L	92	(70-130)		
LCS2	Trifluralin		2.0	2.01	ug/L	100	(70-130)	20	8.3
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.0770	ug/L	77	(50-150)		
MS_201501080544	Trifluralin	ND	2.0	1.99	ug/L	100	(70-130)		
LCS1	Triphenylphosphate (S)			110	%	110	(70-130)		
LCS2	Triphenylphosphate (S)			109	%	109	(70-130)		
MBLK	Triphenylphosphate (S)			106	%	106	(70-130)		
MRL_CHK	Triphenylphosphate (S)			102	%	103	(70-130)		
MS_201501080544	Triphenylphosphate (S)			118	%	118	(70-130)		
QC Ref# 815528 - ICPMS Metals by EPA 200.8						**Analysis Date: 01/21/2015**			
LCS1	Silver Total ICAP/MS		50	48.9	ug/L	98	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.8	ug/L	98	(85-115)	20	0.21
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.472	ug/L	94	(50-150)		
MS_201501150270	Silver Total ICAP/MS	ND	50	48.5	ug/L	97	(70-130)		
MS2_201501150251	Silver Total ICAP/MS	ND	50	47.3	ug/L	95	(70-130)		
MSD_201501150270	Silver Total ICAP/MS	ND	50	46.6	ug/L	93	(70-130)	20	4.0
MSD2_201501150251	Silver Total ICAP/MS	ND	50	48.4	ug/L	97	(70-130)	20	2.3

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Honolulu Board of Water Supply
Erwin Kawata
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Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
01/09/2015 1141

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
DH-43 (MOANALUA) (201501090270)							**Sampled on 01/07/2015 1230**		
				EPA 200.8 - ICPMS Metals					
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	0.16	1.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	0.060	1.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	0.054	1.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Cadmium Total ICAP/MS	1.2	ug/L	0.012	0.50	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Chromium Total ICAP/MS	2.4	ug/L	0.088	1.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	0.20	2.0	1
1/9/2015	01/14/2015 19:46	814106	(EPA 200.8)	Lead dissolved ICAP/MS	0.050J	ug/L	0.038	0.50	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Lead Total ICAP/MS	5.0	ug/L	0.038	0.50	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Nickel Total ICAP/MS	1.6J	ug/L	0.32	5.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Selenium Total ICAP/MS	1.9J	ug/L	0.15	5.0	1
1/9/2015	01/21/2015 19:12	815528	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.014	0.50	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Thallium Total ICAP/MS	0.041J	ug/L	0.020	1.0	1
1/9/2015	01/12/2015 20:05	813744	(EPA 200.8)	Zinc Total ICAP/MS	480	ug/L	1.2	20	1
				EPA 200.7 - ICP Metals					
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Calcium Total ICAP	35	mg/L	0.12	1.0	1
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Iron Total ICAP	0.10	mg/L	0.0026	0.020	1
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Magnesium Total ICAP	39	mg/L	0.0030	0.10	1
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Manganese Total ICAP	0.0074	mg/L	0.0022	0.0020	1
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Potassium Total ICAP	1.8	mg/L	0.13	1.0	1
1/9/2015	01/10/2015 1::59	813506	(EPA 200.7)	Sodium Total ICAP	65	mg/L	0.11	1.0	1
				EPA 245.1 - Mercury Total					
1/12/2015	01/13/2015 12:04	814027	(EPA 245.1)	Mercury	ND	ug/L	0.042	0.20	1
				SM2330B - Carbonate as CO3, Calculated					
	01/13/2015 22:30		(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2.0	2.0	1
				SM2330B - Bicarb.Alkalinity as HCO3,calc					
	01/13/2015 12:09		(SM2330B)	Bicarb.Alkalinity as HCO3calc	140	mg/L	2.0	2.0	1
				EPA 505 - Organochlorine Pesticides/PCBs					
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.041	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Aldrin	ND	ug/L	0.0020	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Chlordane	ND	ug/L	0.032	0.10	1

Rounding on totals after summation.
(c) - Indicates calculated results.
ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

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Samples Received on:
01/09/2015 1141

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Dieldrin	ND	ug/L	0.0050	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Endrin	ND	ug/L	0.0050	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Heptachlor	ND	ug/L	0.0030	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.0050	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.0070	0.010	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Methoxychlor	ND	ug/L	0.022	0.050	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.022	0.080	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.079	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.085	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.072	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.023	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.035	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.033	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Total PCBs	ND	ug/L	0.10	0.10	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Toxaphene	ND	ug/L	0.083	0.50	1
1/13/2015	01/14/2015 03:53	815087	(EPA 505)	Tetrachlorometaxylene	98	%		130	1
	EPA 504.1 - EPA Method 504.1								
1/15/2015	01/15/2015 23:15	814739	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.011	0.040	1
1/15/2015	01/15/2015 23:15	814739	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.0030	0.010	1
1/15/2015	01/15/2015 23:15	814739	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.0020	0.010	1
1/15/2015	01/15/2015 23:15	814739	(EPA 504.1)	1,2-Dibromopropane	94	%		140	1
	EPA 525.2 - Semivolatiles by GCMS								
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.013	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.036	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	4,4-DDD	ND	ug/L	0.015	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	4,4-DDE	ND	ug/L	0.018	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	4,4-DDT	ND	ug/L	0.031	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Acenaphthene	ND	ug/L	0.016	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.014	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Acetochlor	ND	ug/L	0.0090	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Alachlor	ND	ug/L	0.022	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Aldrin	ND	ug/L	0.042	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.018	0.10	1

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Laboratory Data
Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.029	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Anthracene	ND	ug/L	0.019	0.020	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Atrazine	ND	ug/L	0.048	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.011	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.011	0.020	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.011	0.020	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benzo(g,h,i)Perylene	ND(LK)	ug/L	0.012	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.017	0.020	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Beta-BHC	ND	ug/L	0.020	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Bromacil	ND	ug/L	0.029	0.20	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Butachlor	ND	ug/L	0.033	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.063	0.50	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.020	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.019	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chloroneb	ND	ug/L	0.016	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.016	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.019	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chrysene	ND	ug/L	0.014	0.020	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Delta-BHC	ND	ug/L	0.033	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.063	0.60	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.15	0.60	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Diazinon (Qualitative)	NR(L4)	ug/L	0.025	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dibenz(a,h)Anthracene	ND(VC,LK)	ug/L	0.033	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.022	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dieldrin	ND	ug/L	0.017	0.20	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.051	0.50	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dimethoate	ND	ug/L	0.033	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.039	0.50	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	0.074	1.0	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.027	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.058	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.052	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.040	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endrin	ND	ug/L	0.038	0.20	1

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1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.084	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	EPTC	ND	ug/L	0.013	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Fluoranthene	ND	ug/L	0.010	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Fluorene	ND	ug/L	0.014	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.021	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Heptachlor	ND	ug/L	0.013	0.030	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.023	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.041	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.038	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND(VC,LK)	ug/L	0.027	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Isophorone	ND	ug/L	0.020	0.50	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Lindane	ND	ug/L	0.022	0.040	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Malathion	ND	ug/L	0.025	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Methoxychlor	ND	ug/L	0.032	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Metolachlor	ND	ug/L	0.016	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Metribuzin	ND	ug/L	0.016	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Molinate	ND	ug/L	0.015	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Naphthalene	ND	ug/L	0.014	0.30	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Parathion	ND	ug/L	0.037	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pendimethalin	ND	ug/L	0.047	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pentachlorophenol	ND	ug/L	0.32	1.0	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.037	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Phenanthrene	ND	ug/L	0.0080	0.040	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Propachlor	ND	ug/L	0.020	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Pyrene	ND	ug/L	0.0080	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Simazine	ND	ug/L	0.028	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Terbacil	ND	ug/L	0.069	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.023	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.017	0.20	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.026	0.050	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Trifluralin	ND	ug/L	0.044	0.10	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	110	%		130	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Acenaphthene-d10	72	%		150	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Chrysene-d12	76	%		150	1

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1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Perylene-d12	95	%		130	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Phenanthrene-d10	74	%		150	1
1/18/2015	01/20/2015 17:13	815475	(EPA 525.2)	Triphenylphosphate	120	%		130	1
	EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/09/2015 12:18	813570	(EPA 300.0)	Nitrate as Nitrogen by IC	0.68	mg/L	0.010	0.20	2
	01/09/2015 12:18	813570	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0080	0.10	2
	EPA 300.0 - Disinfection ByProducts by 300.0								
	01/13/2015 23:41	814193	(EPA 300.0)	Bromide	560	ug/L	4.5	10	2
	EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/12/2015 14:19	813813	(EPA 300.0)	Chloride	150	mg/L	0.12	5.0	5
	01/09/2015 12:18	813266	(EPA 300.0)	Sulfate	38	mg/L	0.12	1.0	2
	SW 8015B - (SUB)Gas Fraction Hydrocarbons								
1/14/2015	01/14/2015 16:46		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0	0.020	1
	SW 8015B - TPH 8015 Diesel and Motor Oil								
1/12/2015	01/15/2015 06:15		(SW 8015B)	TPH Diesel	ND	ug/L	0.11	0.028	1
1/12/2015	01/15/2015 06:15		(SW 8015B)	TPH Motor Oil	ND	ug/L	0	0.057	1
	EPA 8015 - Jet Fuel 5 C8-C18								
1/12/2015	01/15/2015 06:15		(EPA 8015)	Jet Fuel	ND	mg/L	0.056	0.057	1
	EPA 625 - 625PAH in ug/L								
1/12/2015	01/29/2015 00:00		(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2-methylnaphthalene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	acenaphthene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	acenaphthylene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	anthracene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	benzo(a)pyrene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	benzo(b)fluoranthene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.0010	0.0050	1

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1/12/2015	01/29/2015 00:00		(EPA 625)	benzo(k)fluoranthene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Biphenyl	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	chrysene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Dibenzothiophene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	fluoranthene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	fluorene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	naphthalene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	pentachlorophenol	ND	ug/L	0.050	0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	Perylene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	phenanthrene	ND	ug/L	0.0010	0.0050	1
1/12/2015	01/29/2015 00:00		(EPA 625)	pyrene	ND	ug/L	0.0010	0.0050	1
	EPA 8015 - Jet Fuel 8 C8-C18								
	01/15/2015 06:15		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.056	0.057	1
	EPA 1671 - Ethanol								
	01/17/2015 03:29		(EPA 1671)	Ethanol	ND	ug/L	670	2000	1
	EPA 625 - 625 Acid Extractable in ug/L								
1/12/2015	01/29/2015 00:00		(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,4-Dichlorophenol	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,4-Dinitrophenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2,6-Dichlorophenol	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2-chlorophenol	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2-methylphenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2-nitrophenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-chloro-3-methyl phenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-methylphenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-nitrophenol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	benzoic acid	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	benzyl alcohol	ND	ug/L		0.20	1
1/12/2015	01/29/2015 00:00		(EPA 625)	phenol	ND	ug/L		0.20	1

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	EPA 625 - 625 Base Neutral Extractable in ug/L								
1/12/2015	01/29/2015 00:00		(EPA 625)	2-chloronaphthalene	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	2-nitroaniline	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	3-nitroaniline	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-Bromophenyl phenyl	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-chlorophenyl phenyl ...	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	4-nitroaniline	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	aniline	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	benzidine	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	bis(2-chloroethyl)ether	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	dibenzofuran	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	hexachloroethane	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	nitrobenzene	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L		0.10	1
1/12/2015	01/29/2015 00:00		(EPA 625)	p-Chloroaniline	ND	ug/L		0.10	1
	GFAA - Organic Lead								
	01/16/2015 12:48		(GFAA)	Organic Lead	ND		0	5.0	1
	EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.15	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.079	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.075	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.13	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,3-Trichlorobenzene	ND(LK)	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.054	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,4-Trichlorobenzene	ND(LK)	ug/L	0.070	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.12	0.50	1

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Laboratory Data
Report: 515305

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.071	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,3,5-Trimethylbenzene	0.28J	ug/L	0.066	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	2,2-Dichloropropane	ND(LK)	ug/L	0.15	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	1.1	5.0	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	0.68	5.0	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Benzene	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromobenzene	ND	ug/L	0.086	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.18	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromoethane	ND	ug/L	0.18	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromoform	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Carbon disulfide	0.14J	ug/L	0.085	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.087	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.066	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.062	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloroethane	ND	ug/L	0.078	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dibromomethane	ND	ug/L	0.099	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.099	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Dichloromethane	ND	ug/L	0.074	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	0.11	3.0	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Ethyl benzene	0.33J	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Hexachlorobutadiene	ND(LK)	ug/L	0.085	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.084	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.23	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.084	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.074	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Naphthalene	ND(LK)	ug/L	0.15	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	n-Butylbenzene	0.24J	ug/L	0.056	0.50	1

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1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.088	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.057	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.076	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	o-Xylene	ND	ug/L	0.072	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.092	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.099	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Styrene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	0.11	3.0	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	0.17	3.0	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.094	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Toluene	ND	ug/L	0.057	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total THM	ND	ug/L	0.062	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Total xylenes	ND	ug/L	0.30	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.097	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.18	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.077	0.30	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	1,2-Dichloroethane-d4	110	%		130	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	4-Bromofluorobenzene	98	%		130	1
1/14/2015	01/14/2015 18:00	814447	(EPA 524.2)	Toluene-d8	82	%		130	1
	EPA 524.3 - TBA by 524.3 SIM								
	01/15/2015 06:57	814520	(EPA 524.3)	Tert-Butyl Alcohol (TBA)	ND	ug/L	0.24	1.0	1
	01/15/2015 06:57	814520	(EPA 524.3)	1,4-Difluorobenzene	98	%		150	1
	01/15/2015 06:57	814520	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		130	1
	EPA 524.3 - MTBE by 524.3 SIM								
	01/15/2015 20:53	814769	(EPA 524.3)	Methyl-t-Butyl Ether (MTBE)	ND	ng/L	4.8	20	1
	01/15/2015 20:53	814769	(EPA 524.3)	1,4-Difluorobenzene	98	%		150	1

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	01/15/2015	20:53	814769	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		130	1
				SM 4500F-C - Fluoride						
	01/09/2015	16:24	813439	(SM 4500F-C)	Fluoride	0.097	mg/L	0.0070	0.050	1
				SM 2320B - Alkalinity in CaCO3 units						
	01/12/2015	16:01	813749	(SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	0.83	2.0	1
				E160.1/SM2540C - Total Dissolved Solids (TDS)						
1/13/2015	01/13/2015	15:11	813973	(E160.1/SM2540 C)	Total Dissolved Solids (TDS)	490	mg/L	4.2	10	1
				SM4500-HB - PH (H3=past HT not compliant)						
	01/12/2015	16:01	813751	(SM4500-HB)	PH (H3=past HT not compliant)	7.6	Units	0.10	0.10	1
				SM2510B - Specific Conductance						
	01/12/2015	16:01	813752	(SM2510B)	Specific Conductance, 25 C	810	umho/cm	0.51	2.0	1
Equipment Blank DH-43 (201501090271)								**Sampled on 01/06/2015 1630**		
				EPA 200.8 - ICPMS Metals						
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	0.16	1.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	0.060	1.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	0.054	1.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Cadmium Total ICAP/MS	0.062J	ug/L	0.012	0.50	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Chromium Total ICAP/MS	2.1	ug/L	0.088	1.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Copper Total ICAP/MS	4.8	ug/L	0.20	2.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Lead Total ICAP/MS	0.22J	ug/L	0.038	0.50	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Nickel Total ICAP/MS	1.7J	ug/L	0.32	5.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	0.15	5.0	1
1/9/2015	01/21/2015	19:13	815528	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.014	0.50	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	0.020	1.0	1
1/9/2015	01/12/2015	22:23	813744	(EPA 200.8)	Zinc Total ICAP/MS	38	ug/L	1.2	20	1
				EPA 505 - Organochlorine Pesticides/PCBs						
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.041	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Aldrin	ND	ug/L	0.0020	0.010	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Chlordane	ND	ug/L	0.032	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Dieldrin	ND	ug/L	0.0050	0.010	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Endrin	ND	ug/L	0.0050	0.010	1

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1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Heptachlor	ND	ug/L	0.0030	0.010	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.0050	0.010	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.0070	0.010	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Methoxychlor	ND	ug/L	0.022	0.050	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.022	0.080	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.079	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.085	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.072	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.023	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.035	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.033	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Total PCBs	ND	ug/L	0.10	0.10	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Toxaphene	ND	ug/L	0.083	0.50	1
1/9/2015	01/10/2015	04:31	814202	(EPA 505)	Tetrachlorometaxylene	94	%		130	1
				SW 8015B - TPH 8015 Diesel and Motor Oil						
1/12/2015	01/15/2015	07:39		(SW 8015B)	TPH Diesel	ND	ug/L	0.10	0.024	1
1/12/2015	01/15/2015	07:39		(SW 8015B)	TPH Motor Oil	ND	ug/L	0	0.052	1
				EPA 8015 - Jet Fuel 5 C8-C18						
1/12/2015	01/15/2015	07:39		(EPA 8015)	Jet Fuel	ND	mg/L	0.050	0.052	1
				EPA 8015 - Jet Fuel 8 C8-C18						
	01/15/2015	07:39		(EPA 8015)	Jet Fuel 8	ND	mg/L	0.050	0.052	1
				EPA 8260 - Volatile Organics by GCMS						
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Benzene	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Ethyl benzene	0.29J	ug/L	0.11	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	m,p-Xylenes	0.30J	ug/L	0.23	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.074	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	o-Xylene	0.38J	ug/L	0.072	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Toluene	ND	ug/L	0.057	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Total xylenes	ND	ug/L	0.30	0.50	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	1,2-Dichloroethane-d4	107	%		130	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	4-Bromofluorobenzene	98	%		130	1
1/12/2015	01/12/2015	22:31	813909	(EPA 8260)	Toluene-d8	93	%		130	1

TRAVEL BLANK raw (DH-43) (201501090272) **Sampled on 01/07/2015 1230**

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Laboratory Data
Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
01/09/2015 1141

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
				EPA 504.1 - EPA Method 504.1						
1/15/2015	01/15/2015	23:51	814739	(EPA 504.1)	1,2,3-Trichloropropane (TCP)	ND	ug/L	0.011	0.040	1
1/15/2015	01/15/2015	23:51	814739	(EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.0030	0.010	1
1/15/2015	01/15/2015	23:51	814739	(EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.0020	0.010	1
1/15/2015	01/15/2015	23:51	814739	(EPA 504.1)	1,2-Dibromopropane	100	%		140	1
				SW 8015B - (SUB)Gas Fraction Hydrocarbons						
1/12/2015	01/12/2015	16:39		(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0	0.020	1
				EPA 524.2 - Volatile Organics by GCMS						
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.15	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.079	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.075	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.13	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.054	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.070	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.071	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.066	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.15	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	1.1	5.0	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	1.3J	ug/L	0.68	5.0	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Benzene	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.086	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.18	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Bromoethane	ND	ug/L	0.18	0.50	1
1/12/2015	01/12/2015	21:45	813908	(EPA 524.2)	Bromoform	ND	ug/L	0.14	0.50	1

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1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Carbon disulfide	0.30J	ug/L	0.085	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.087	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.066	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.062	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloroethane	0.19J	ug/L	0.078	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.14	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	cis-1,3-Dichloropropene	0.36J	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.099	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.099	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.074	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	0.11	3.0	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Ethyl benzene	0.28J	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.085	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.084	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	m,p-Xylenes	0.30J	ug/L	0.23	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.084	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.074	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Naphthalene	ND	ug/L	0.15	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.056	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.088	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.057	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.076	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	o-Xylene	ND	ug/L	0.072	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.092	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.099	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Styrene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	0.11	3.0	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	0.17	3.0	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.094	0.50	1

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1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Toluene	ND	ug/L	0.057	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total THM	ND	ug/L	0.062	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Total xylenes	ND	ug/L	0.30	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.14	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.097	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.18	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.14	0.50	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.077	0.30	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	1,2-Dichloroethane-d4	104	%		130	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	4-Bromofluorobenzene	97	%		130	1
1/12/2015	01/12/2015 21:45	813908	(EPA 524.2)	Toluene-d8	92	%		130	1
	EPA 524.3 - TBA by 524.3 SIM								
	01/15/2015 10:31	814520	(EPA 524.3)	Tert-Butyl Alcohol (TBA)	ND	ug/L	0.24	1.0	1
	01/15/2015 10:31	814520	(EPA 524.3)	1,4-Difluorobenzene	96	%		150	1
	01/15/2015 10:31	814520	(EPA 524.3)	methyl-t-butyl ether-d3	100	%		130	1
	EPA 524.3 - MTBE by 524.3 SIM								
	01/16/2015 13:14	815095	(EPA 524.3)	Methyl-t-Butyl Ether (MTBE)	ND	ng/L	4.8	20	1
	01/16/2015 13:14	815095	(EPA 524.3)	1,4-Difluorobenzene	95	%		150	1
	01/16/2015 13:14	815095	(EPA 524.3)	methyl-t-butyl ether-d3	106	%		130	1
DH-43 (MOANALUA) (201501100016)							**Sampled on 01/07/2015 1230**		
	EPA 8260 - Volatile Organics by GCMS								
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.15	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.079	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.075	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.13	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.054	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2-Dibromo-3-chloropropane	ND(R7)	ug/L	0.50	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2-Dibromoethane	ND	ug/L	0.50	0.50	1

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1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.071	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	1.1	5.0	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	2-Hexanone	ND	ug/L	3.3	10	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	0.68	5.0	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Acetone	ND	ug/L	4.0	10	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Benzene	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Bromochloromethane	ND	ug/L	0.18	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Bromoform	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.12	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Carbon disulfide	0.14J	ug/L	0.085	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.087	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Chlorobenzene	ND	ug/L	0.066	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.062	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Chloroethane	ND	ug/L	0.078	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Dibromomethane	ND	ug/L	0.099	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Dichlorodifluoromethane	ND	ug/L	0.099	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Dichloromethane	ND	ug/L	0.074	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Di-isopropyl ether	ND	ug/L	0.11	3.0	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Ethyl benzene	0.33J	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Iodomethane	ND	ug/L	0.10	0.10	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.23	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.074	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.076	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	o-Xylene	ND	ug/L	0.072	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.092	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Styrene	ND(MC)	ug/L	0.11	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	T-Butyl Alcohol	ND	ug/L	0.46	5.0	1

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Laboratory Data
Report: 515305

Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
01/09/2015 1141

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	tert-amyl Methyl Ether	ND	ug/L	0.11	3.0	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	tert-Butyl Ethyl Ether	ND	ug/L	0.17	3.0	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Toluene	ND	ug/L	0.057	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Total xylenes	ND	ug/L	0.30	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.10	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.14	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	10	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.097	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.18	0.50	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Vinyl Acetate	NR	ug/L	0.93	10	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.077	0.30	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	1,2-Dichloroethane-d4	110	%		130	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	4-Bromofluorobenzene	98	%		130	1
1/14/2015	01/14/2015 18:00	814448	(EPA 8260)	Toluene-d8	82	%		130	1

TRAVEL BLANK raw (DH-43) (201501100017) **Sampled on 01/07/2015 1230**

EPA 8260 - Volatile Organics by GCMS

1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.15	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.079	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.075	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.13	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.054	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dibromo-3-chloropropane	ND	ug/L	0.50	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dibromoethane	ND	ug/L	0.50	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.071	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	1.1	5.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	2-Hexanone	ND	ug/L	3.3	10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	1.3J	ug/L	0.68	5.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Acetone	ND	ug/L	4.0	10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	50	1

Rounding on totals after summation.
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1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Benzene	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Bromochloromethane	ND	ug/L	0.18	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Bromoform	ND	ug/L	0.14	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.12	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Carbon disulfide	0.30J	ug/L	0.085	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.087	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Chlorobenzene	ND	ug/L	0.066	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.062	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Chloroethane	0.19J	ug/L	0.078	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.14	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	cis-1,3-Dichloropropene	0.36J(LE)	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dibromomethane	ND	ug/L	0.099	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dichlorodifluoromethane	ND(LK)	ug/L	0.099	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Dichloromethane	ND	ug/L	0.074	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Di-isopropyl ether	ND	ug/L	0.11	3.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Ethyl benzene	0.28J	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Iodomethane	ND	ug/L	0.10	0.10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	m,p-Xylenes	0.30J	ug/L	0.23	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.074	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.076	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	o-Xylene	ND	ug/L	0.072	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.092	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Styrene	ND	ug/L	0.11	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	T-Butyl Alcohol	1.4J	ug/L	0.46	5.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	tert-amyl Methyl Ether	ND	ug/L	0.11	3.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	tert-Butyl Ethyl Ether	ND	ug/L	0.17	3.0	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Toluene	ND	ug/L	0.057	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Total xylenes	ND	ug/L	0.30	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.10	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.14	0.50	1

Rounding on totals after summation.
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1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.097	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.18	0.50	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Vinyl Acetate	NR	ug/L	0.93	10	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.077	0.30	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	1,2-Dichloroethane-d4	104	%		130	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	4-Bromofluorobenzene	97	%		130	1
1/12/2015	01/12/2015 21:45	813909	(EPA 8260)	Toluene-d8	92	%		130	1

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PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

February 03, 2015

Jaclyn Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-

Project Name: Folder # 515305 Sub PO # 99-32694
Physis Project ID: 1407003-011

Dear Jaclyn,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 1/9/2015. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Organics
Polynuclear Aromatic Hydrocarbons by EPA 625
Base/Neutral Extractable Compounds by EPA 625
Acid Extractable Compounds by EPA 625

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Misty Mercier
Extension 202
714-335-5918 cell
mistymercier@physislabs.com

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

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QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

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the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

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PHYSIS QUALIFIER CODES

CODE	DEFINITION
*	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified recovery and/or RPD acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore MS recovery and/or RPD acceptance limits do not apply
SL	analyte results for R1 and/or R2 were lower than 10 times the MDL, therefore RPD acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore MS recovery and/or RPD were outside the specified acceptance limits
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

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CASE NARRIATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

ND
MDL is listed due to report format restrictions; it is not used in reporting. Analytical results reported as ND, are ND at the RL.

ANALYTICAL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

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Acid Extractable Compounds ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 30818-R1	**201501090270 DH-43 (MOANALUA)**	**Matrix: Drinkingwater**		**Sampled: 07-Jan-15 12:30**		**Received: 09-Jan-15**
	Method: EPA 625	Batch ID: O-7044		Prepared: 12-Jan-15		Analyzed: 29-Jan-15
(2,4,6-Tribromophenol)	Total	92			% Recovery	
(d5-Phenol)	Total	18			% Recovery	
2,4,5-Trichlorophenol	Total	ND	0.05	0.1	µg/L	
2,4,6-Trichlorophenol	Total	ND	0.05	0.1	µg/L	
2,4-Dichlorophenol	Total	ND	0.05	0.1	µg/L	
2,4-Dinitrophenol	Total	ND	0.1	0.2	µg/L	
2,6-Dichlorophenol	Total	ND	0.05	0.1	µg/L	
2-Chlorophenol	Total	ND	0.05	0.1	µg/L	
2-Methyl-4,6-dinitrophenol	Total	ND	0.1	0.2	µg/L	
2-Methylphenol	Total	ND	0.1	0.2	µg/L	
2-Nitrophenol	Total	ND	0.1	0.2	µg/L	
4-Chloro-3-methylphenol	Total	ND	0.1	0.2	µg/L	
4-Methylphenol	Total	ND	0.1	0.2	µg/L	
4-Nitrophenol	Total	ND	0.1	0.2	µg/L	
Benzoic Acid	Total	ND	0.1	0.2	µg/L	
Benzyl Alcohol	Total	ND	0.1	0.2	µg/L	
Pentachlorophenol	Total	ND	0.05	0.1	µg/L	
Phenol	Total	ND	0.1	0.2	µg/L	

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Base/Neutral Extractable Compounds ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 30818-R1	**201501090270 DH-43 (MOANALUA)** Method: EPA 625	**Matrix: Drinkingwater** Batch ID: O-7044	**Sampled: 07-Jan-15 12:30** Prepared: 12-Jan-15		**Received: 09-Jan-15** Analyzed: 29-Jan-15	
2-Chloronaphthalene	Total	ND	0.05	0.1	µg/L	
2-Nitroaniline	Total	ND	0.05	0.1	µg/L	
3-Nitroaniline	Total	ND	0.05	0.1	µg/L	
4-Bromophenylphenyl Ether	Total	ND	0.05	0.1	µg/L	
4-Chloroaniline	Total	ND	0.05	0.1	µg/L	
4-Chlorophenylphenyl Ether	Total	ND	0.05	0.1	µg/L	
4-Nitroaniline	Total	ND	0.05	0.1	µg/L	
Aniline	Total	ND	0.05	0.1	µg/L	
Benzidine	Total	ND	0.05	0.1	µg/L	
Bis(2-chloroethoxy) Methane	Total	ND	0.05	0.1	µg/L	
Bis(2-chloroethyl) Ether	Total	ND	0.05	0.1	µg/L	
Bis(2-chloroisopropyl) Ether	Total	ND	0.05	0.1	µg/L	
Dibenzofuran	Total	ND	0.05	0.1	µg/L	
Hexachloroethane	Total	ND	0.05	0.1	µg/L	
Nitrobenzene	Total	ND	0.05	0.1	µg/L	
N-Nitrosodi-n-propylamine	Total	ND	0.05	0.1	µg/L	
N-Nitrosodiphenylamine	Total	ND	0.05	0.1	µg/L	

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Polynuclear Aromatic Hydrocarbons ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 30818-R1	**201501090270 DH-43 (MOANALUA)**	**Matrix: Drinkingwater**		**Sampled: 07-Jan-15 12:30**		**Received: 09-Jan-15**
	Method: EPA 625	Batch ID: O-7044		Prepared: 12-Jan-15		Analyzed: 29-Jan-15
(d10-Acenaphthene)	Total	87			% Recovery	
(d10-Phenanthrene)	Total	98			% Recovery	
(d12-Chrysene)	Total	111			% Recovery	
(d8-Naphthalene)	Total	73			% Recovery	
1-Methylnaphthalene	Total	ND	0.001	0.005	µg/L	
1-Methylphenanthrene	Total	ND	0.001	0.005	µg/L	
2,3,5-Trimethylnaphthalene	Total	ND	0.001	0.005	µg/L	
2,6-Dimethylnaphthalene	Total	ND	0.001	0.005	µg/L	
2-Methylnaphthalene	Total	ND	0.001	0.005	µg/L	
Acenaphthene	Total	ND	0.001	0.005	µg/L	
Acenaphthylene	Total	ND	0.001	0.005	µg/L	
Anthracene	Total	ND	0.001	0.005	µg/L	
Benz[a]anthracene	Total	ND	0.001	0.005	µg/L	
Benzo[a]pyrene	Total	ND	0.001	0.005	µg/L	
Benzo[b]fluoranthene	Total	ND	0.001	0.005	µg/L	
Benzo[e]pyrene	Total	ND	0.001	0.005	µg/L	
Benzo[g,h,i]perylene	Total	ND	0.001	0.005	µg/L	
Benzo[k]fluoranthene	Total	ND	0.001	0.005	µg/L	
Biphenyl	Total	ND	0.001	0.005	µg/L	
Chrysene	Total	ND	0.001	0.005	µg/L	
Dibenz[a,h]anthracene	Total	ND	0.001	0.005	µg/L	
Dibenzothiophene	Total	ND	0.001	0.005	µg/L	
Fluoranthene	Total	ND	0.001	0.005	µg/L	
Fluorene	Total	ND	0.001	0.005	µg/L	
Indeno[1,2,3-c,d]pyrene	Total	ND	0.001	0.005	µg/L	
Naphthalene	Total	ND	0.001	0.005	µg/L	
Perylene	Total	ND	0.001	0.005	µg/L	
Phenanthrene	Total	ND	0.001	0.005	µg/L	
Pyrene	Total	ND	0.001	0.005	µg/L	

QUALITY CONTROL REPORT

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ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

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Acid Extractable Compounds — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 30817-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**	
	Method: EPA 625				Batch ID: O-7044			Prepared: 12-Jan-15			Analyzed: 28-Jan-15	
(2,4,6-Tribromophenol)	Total	85			% Recovery	100		85	30 - 130%			PASS
(d5-Phenol)	Total	72			% Recovery	100		72	0 - 130%			PASS
2,4,5-Trichlorophenol	Total	ND	0.05	0.1	µg/L							
2,4,6-Trichlorophenol	Total	ND	0.05	0.1	µg/L							
2,4-Dichlorophenol	Total	ND	0.05	0.1	µg/L							
2,4-Dinitrophenol	Total	ND	0.1	0.2	µg/L							
2,6-Dichlorophenol	Total	ND	0.05	0.1	µg/L							
2-Chlorophenol	Total	ND	0.05	0.1	µg/L							
2-Methyl-4,6-dinitrophenol	Total	ND	0.1	0.2	µg/L							
2-Methylphenol	Total	ND	0.1	0.2	µg/L							
2-Nitrophenol	Total	ND	0.1	0.2	µg/L							
4-Chloro-3-methylphenol	Total	ND	0.1	0.2	µg/L							
4-Methylphenol	Total	ND	0.1	0.2	µg/L							
4-Nitrophenol	Total	ND	0.1	0.2	µg/L							
Benzoic Acid	Total	ND	0.1	0.2	µg/L							
Benzyl Alcohol	Total	ND	0.1	0.2	µg/L							
Pentachlorophenol	Total	ND	0.05	0.1	µg/L							
Phenol	Total	ND	0.1	0.2	µg/L							
Sample ID: 30817-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**	
	Method: EPA 625				Batch ID: O-7044			Prepared: 12-Jan-15			Analyzed: 28-Jan-15	
(2,4,6-Tribromophenol)	Total	111			% Recovery	100	0	111	30 - 130%			PASS
(d5-Phenol)	Total	90			% Recovery	100	0	90	0 - 130%			PASS
2,4,5-Trichlorophenol	Total	1.04215	0.05	0.1	µg/L	1	0	104	30 - 130%			PASS
2,4,6-Trichlorophenol	Total	1.02353	0.05	0.1	µg/L	1	0	102	30 - 130%			PASS
2,4-Dichlorophenol	Total	0.98624	0.05	0.1	µg/L	1	0	99	30 - 130%			PASS
2,4-Dinitrophenol	Total	0.559948	0.1	0.2	µg/L	1	0	56	0 - 130%			PASS
2,6-Dichlorophenol	Total	0.99641	0.05	0.1	µg/L	1	0	100	30 - 130%			PASS
2-Chlorophenol	Total	0.87898	0.05	0.1	µg/L	1	0	88	30 - 130%			PASS

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Acid Extractable Compounds — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
2-Methyl-4,6-dinitrophenol	Total	0.561861	0.1	0.2	µg/L	1	0	56	0 - 130%	PASS			
2-Methylphenol	Total	0.931907	0.1	0.2	µg/L	1	0	93	0 - 130%	PASS			
2-Nitrophenol	Total	0.872177	0.1	0.2	µg/L	1	0	87	0 - 130%	PASS			
4-Chloro-3-methylphenol	Total	1.266297	0.1	0.2	µg/L	1	0	127	0 - 130%	PASS			
4-Methylphenol	Total	0.963139	0.1	0.2	µg/L	1	0	96	0 - 130%	PASS			
4-Nitrophenol	Total	1.244592	0.1	0.2	µg/L	1	0	124	0 - 130%	PASS			
Benzoic Acid	Total	0.697031	0.1	0.2	µg/L	1	0	70	30 - 130%	PASS			
Benzyl Alcohol	Total	1.056765	0.1	0.2	µg/L	1	0	106	30 - 130%	PASS			
Pentachlorophenol	Total	2.28296	0.05	0.1	µg/L	2	0	114	0 - 130%	PASS			
Phenol	Total	0.87548	0.1	0.2	µg/L	1	0	88	0 - 130%	PASS			

Sample ID: 30817-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 625 Batch ID: O-7044 Prepared: 12-Jan-15 Analyzed: 28-Jan-15

(2,4,6-Tribromophenol)	Total	109			% Recovery	100	0	109	30 - 130%	PASS	2	30	PASS
(d5-Phenol)	Total	95			% Recovery	100	0	95	0 - 130%	PASS	5	30	PASS
2,4,5-Trichlorophenol	Total	1.05028	0.05	0.1	µg/L	1	0	105	30 - 130%	PASS	1	30	PASS
2,4,6-Trichlorophenol	Total	1.04663	0.05	0.1	µg/L	1	0	105	30 - 130%	PASS	3	30	PASS
2,4-Dichlorophenol	Total	1.04168	0.05	0.1	µg/L	1	0	104	30 - 130%	PASS	5	30	PASS
2,4-Dinitrophenol	Total	0.566026	0.1	0.2	µg/L	1	0	57	0 - 130%	PASS	2	30	PASS
2,6-Dichlorophenol	Total	1.05725	0.05	0.1	µg/L	1	0	106	30 - 130%	PASS	6	30	PASS
2-Chlorophenol	Total	0.92291	0.05	0.1	µg/L	1	0	92	30 - 130%	PASS	4	30	PASS
2-Methyl-4,6-dinitrophenol	Total	0.537716	0.1	0.2	µg/L	1	0	54	0 - 130%	PASS	4	30	PASS
2-Methylphenol	Total	0.977893	0.1	0.2	µg/L	1	0	98	0 - 130%	PASS	5	30	PASS
2-Nitrophenol	Total	0.937006	0.1	0.2	µg/L	1	0	94	0 - 130%	PASS	8	30	PASS
4-Chloro-3-methylphenol	Total	1.285975	0.1	0.2	µg/L	1	0	129	0 - 130%	PASS	2	30	PASS
4-Methylphenol	Total	1.050827	0.1	0.2	µg/L	1	0	105	0 - 130%	PASS	9	30	PASS
4-Nitrophenol	Total	1.258436	0.1	0.2	µg/L	1	0	126	0 - 130%	PASS	2	30	PASS
Benzoic Acid	Total	0.774988	0.1	0.2	µg/L	1	0	77	30 - 130%	PASS	10	30	PASS
Benzyl Alcohol	Total	1.126335	0.1	0.2	µg/L	1	0	113	30 - 130%	PASS	6	30	PASS
Pentachlorophenol	Total	1.90018	0.05	0.1	µg/L	2	0	95	0 - 130%	PASS	18	30	PASS
Phenol	Total	0.91903	0.1	0.2	µg/L	1	0	92	0 - 130%	PASS	4	30	PASS

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Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 30817-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-7044		Prepared: 12-Jan-15				Analyzed: 28-Jan-15	
2-Chloronaphthalene	Total	ND	0.05	0.1	µg/L							
2-Nitroaniline	Total	ND	0.05	0.1	µg/L							
3-Nitroaniline	Total	ND	0.05	0.1	µg/L							
4-Bromophenylphenyl Ether	Total	ND	0.05	0.1	µg/L							
4-Chloroaniline	Total	ND	0.05	0.1	µg/L							
4-Chlorophenylphenyl Ether	Total	ND	0.05	0.1	µg/L							
4-Nitroaniline	Total	ND	0.05	0.1	µg/L							
Aniline	Total	ND	0.05	0.1	µg/L							
Benzidine	Total	ND	0.05	0.1	µg/L							
Bis(2-chloroethoxy) Methane	Total	ND	0.05	0.1	µg/L							
Bis(2-chloroethyl) Ether	Total	ND	0.05	0.1	µg/L							
Bis(2-chloroisopropyl) Ether	Total	ND	0.05	0.1	µg/L							
Dibenzofuran	Total	ND	0.05	0.1	µg/L							
Hexachloroethane	Total	ND	0.05	0.1	µg/L							
Nitrobenzene	Total	ND	0.05	0.1	µg/L							
N-Nitrosodi-n-propylamine	Total	ND	0.05	0.1	µg/L							
N-Nitrosodiphenylamine	Total	ND	0.05	0.1	µg/L							
Sample ID: 30817-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-7044		Prepared: 12-Jan-15				Analyzed: 28-Jan-15	
2-Chloronaphthalene	Total	0.99326	0.05	0.1	µg/L	1	0	99	50 - 150%	PASS		
2-Nitroaniline	Total	0.99131	0.05	0.1	µg/L	1	0	99	0 - 125%	PASS		
3-Nitroaniline	Total	1.0207	0.05	0.1	µg/L	1	0	102	0 - 125%	PASS		
4-Bromophenylphenyl Ether	Total	1.00748	0.05	0.1	µg/L	1	0	101	50 - 150%	PASS		
4-Chloroaniline	Total	1.25	0.05	0.1	µg/L	1	0	125	50 - 150%	PASS		
4-Chlorophenylphenyl Ether	Total	0.99836	0.05	0.1	µg/L	1	0	100	50 - 150%	PASS		
4-Nitroaniline	Total	1.19616	0.05	0.1	µg/L	1	0	120	0 - 125%	PASS		
Aniline	Total	0.91682	0.05	0.1	µg/L	1	0	92	50 - 150%	PASS		
Benzidine	Total	1.046	0.05	0.1	µg/L	1	0	105	0 - 125%	PASS		

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Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Bis(2-chloroethoxy) Methane	Total	0.98692	0.05	0.1	µg/L	1	0	99	50 - 150%	PASS				
Bis(2-chloroethyl) Ether	Total	0.92102	0.05	0.1	µg/L	1	0	92	50 - 150%	PASS				
Bis(2-chloroisopropyl) Ether	Total	0.93774	0.05	0.1	µg/L	1	0	94	50 - 150%	PASS				
Dibenzofuran	Total	0.99668	0.05	0.1	µg/L	1	0	100	50 - 150%	PASS				
Hexachloroethane	Total	0.89166	0.05	0.1	µg/L	1	0	89	50 - 150%	PASS				
Nitrobenzene	Total	0.91224	0.05	0.1	µg/L	1	0	91	50 - 150%	PASS				
N-Nitrosodi-n-propylamine	Total	1.19402	0.05	0.1	µg/L	1	0	119	50 - 150%	PASS				
N-Nitrosodiphenylamine	Total	1.08046	0.05	0.1	µg/L	1	0	108	50 - 150%	PASS				

Sample ID: 30817-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 625 Batch ID: O-7044 Prepared: 12-Jan-15 Analyzed: 28-Jan-15

2-Chloronaphthalene	Total	1.01318	0.05	0.1	µg/L	1	0	101	50 - 150%	PASS	2	30	PASS	
2-Nitroaniline	Total	1.05672	0.05	0.1	µg/L	1	0	106	0 - 125%	PASS	7	30	PASS	
3-Nitroaniline	Total	1.25345	0.05	0.1	µg/L	1	0	125	0 - 125%	PASS	20	30	PASS	
4-Bromophenylphenyl Ether	Total	1.00579	0.05	0.1	µg/L	1	0	101	50 - 150%	PASS	0	30	PASS	
4-Chloroaniline	Total	1.29517	0.05	0.1	µg/L	1	0	130	50 - 150%	PASS	4	30	PASS	
4-Chlorophenylphenyl Ether	Total	1.0009	0.05	0.1	µg/L	1	0	100	50 - 150%	PASS	0	30	PASS	
4-Nitroaniline	Total	1.34581	0.05	0.1	µg/L	1	0	135	0 - 125%	FAIL	12	30	PASS	R
Aniline	Total	0.95864	0.05	0.1	µg/L	1	0	96	50 - 150%	PASS	4	30	PASS	
Benzidine	Total	1.01025	0.05	0.1	µg/L	1	0	101	0 - 125%	PASS	4	30	PASS	
Bis(2-chloroethoxy) Methane	Total	1.01111	0.05	0.1	µg/L	1	0	101	50 - 150%	PASS	2	30	PASS	
Bis(2-chloroethyl) Ether	Total	0.9582199	0.05	0.1	µg/L	1	0	96	50 - 150%	PASS	4	30	PASS	
Bis(2-chloroisopropyl) Ether	Total	0.9601	0.05	0.1	µg/L	1	0	96	50 - 150%	PASS	2	30	PASS	
Dibenzofuran	Total	1.00698	0.05	0.1	µg/L	1	0	101	50 - 150%	PASS	1	30	PASS	
Hexachloroethane	Total	0.93702	0.05	0.1	µg/L	1	0	94	50 - 150%	PASS	5	30	PASS	
Nitrobenzene	Total	0.97286	0.05	0.1	µg/L	1	0	97	50 - 150%	PASS	6	30	PASS	
N-Nitrosodi-n-propylamine	Total	1.40952	0.05	0.1	µg/L	1	0	141	50 - 150%	PASS	17	30	PASS	
N-Nitrosodiphenylamine	Total	1.09239	0.05	0.1	µg/L	1	0	109	50 - 150%	PASS	1	30	PASS	

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Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 30817-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-7044		Prepared: 12-Jan-15				Analyzed: 28-Jan-15	
(d10-Acenaphthene)	Total	74			% Recovery	100	74	50 - 150%	PASS			
(d10-Phenanthrene)	Total	82			% Recovery	100	82	50 - 150%	PASS			
(d12-Chrysene)	Total	92			% Recovery	100	92	50 - 150%	PASS			
(d8-Naphthalene)	Total	72			% Recovery	100	72	25 - 125%	PASS			
1-Methylnaphthalene	Total	ND	0.001	0.005	µg/L							
1-Methylphenanthrene	Total	ND	0.001	0.005	µg/L							
2,3,5-Trimethylnaphthalene	Total	ND	0.001	0.005	µg/L							
2,6-Dimethylnaphthalene	Total	ND	0.001	0.005	µg/L							
2-Methylnaphthalene	Total	ND	0.001	0.005	µg/L							
Acenaphthene	Total	ND	0.001	0.005	µg/L							
Acenaphthylene	Total	ND	0.001	0.005	µg/L							
Anthracene	Total	ND	0.001	0.005	µg/L							
Benz[a]anthracene	Total	ND	0.001	0.005	µg/L							
Benzo[a]pyrene	Total	ND	0.001	0.005	µg/L							
Benzo[b]fluoranthene	Total	ND	0.001	0.005	µg/L							
Benzo[e]pyrene	Total	ND	0.001	0.005	µg/L							
Benzo[g,h,i]perylene	Total	ND	0.001	0.005	µg/L							
Benzo[k]fluoranthene	Total	ND	0.001	0.005	µg/L							
Biphenyl	Total	ND	0.001	0.005	µg/L							
Chrysene	Total	ND	0.001	0.005	µg/L							
Dibenz[a,h]anthracene	Total	ND	0.001	0.005	µg/L							
Dibenzothiophene	Total	ND	0.001	0.005	µg/L							
Fluoranthene	Total	ND	0.001	0.005	µg/L							
Fluorene	Total	ND	0.001	0.005	µg/L							
Indeno[1,2,3-c,d]pyrene	Total	ND	0.001	0.005	µg/L							
Naphthalene	Total	ND	0.001	0.005	µg/L							
Perylene	Total	ND	0.001	0.005	µg/L							
Phenanthrene	Total	ND	0.001	0.005	µg/L							
Pyrene	Total	ND	0.001	0.005	µg/L							

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Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 30817-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-7044		Prepared: 12-Jan-15				Analyzed: 28-Jan-15	
(d10-Acenaphthene)	Total	90			% Recovery	100	0	90	50 - 150%		PASS	
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	50 - 150%		PASS	
(d12-Chrysene)	Total	108			% Recovery	100	0	108	50 - 150%		PASS	
(d8-Naphthalene)	Total	87			% Recovery	100	0	87	25 - 125%		PASS	
1-Methylnaphthalene	Total	1.5177	0.001	0.005	µg/L	1.5	0	101	50 - 150%		PASS	
1-Methylphenanthrene	Total	0.52	0.001	0.005	µg/L	0.5	0	104	50 - 150%		PASS	
2,3,5-Trimethylnaphthalene	Total	0.4502	0.001	0.005	µg/L	0.5	0	90	50 - 150%		PASS	
2,6-Dimethylnaphthalene	Total	0.4313	0.001	0.005	µg/L	0.5	0	86	50 - 150%		PASS	
2-Methylnaphthalene	Total	0.3562	0.001	0.005	µg/L	0.5	0	71	50 - 150%		PASS	
Acenaphthene	Total	1.3407	0.001	0.005	µg/L	1.5	0	89	50 - 150%		PASS	
Acenaphthylene	Total	1.3778	0.001	0.005	µg/L	1.5	0	92	50 - 150%		PASS	
Anthracene	Total	1.5452	0.001	0.005	µg/L	1.5	0	103	50 - 150%		PASS	
Benz[a]anthracene	Total	1.8585	0.001	0.005	µg/L	1.5	0	124	50 - 150%		PASS	
Benzo[a]pyrene	Total	1.6371	0.001	0.005	µg/L	1.5	0	109	50 - 150%		PASS	
Benzo[b]fluoranthene	Total	2.0359	0.001	0.005	µg/L	1.5	0	136	50 - 150%		PASS	
Benzo[e]pyrene	Total	0.6177	0.001	0.005	µg/L	0.5	0	124	50 - 150%		PASS	
Benzo[g,h,i]perylene	Total	1.5662	0.001	0.005	µg/L	1.5	0	104	50 - 150%		PASS	
Benzo[k]fluoranthene	Total	1.6698	0.001	0.005	µg/L	1.5	0	111	50 - 150%		PASS	
Biphenyl	Total	0.4279	0.001	0.005	µg/L	0.5	0	86	50 - 150%		PASS	
Chrysene	Total	1.7678	0.001	0.005	µg/L	1.5	0	118	50 - 150%		PASS	
Dibenz[a,h]anthracene	Total	1.6266	0.001	0.005	µg/L	1.5	0	108	50 - 150%		PASS	
Dibenzothiophene	Total	0.4783	0.001	0.005	µg/L	0.5	0	96	50 - 150%		PASS	
Fluoranthene	Total	1.6103	0.001	0.005	µg/L	1.5	0	107	50 - 150%		PASS	
Fluorene	Total	1.5089	0.001	0.005	µg/L	1.5	0	101	50 - 150%		PASS	
Indeno[1,2,3-c,d]pyrene	Total	1.577	0.001	0.005	µg/L	1.5	0	105	50 - 150%		PASS	
Naphthalene	Total	1.255	0.001	0.005	µg/L	1.5	0	84	25 - 125%		PASS	
Perylene	Total	0.6241	0.001	0.005	µg/L	0.5	0	125	50 - 150%		PASS	
Phenanthrene	Total	1.5931	0.001	0.005	µg/L	1.5	0	106	50 - 150%		PASS	
Pyrene	Total	1.6917	0.001	0.005	µg/L	1.5	0	113	50 - 150%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 30817-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 625				Batch ID: O-7044		Prepared: 12-Jan-15				Analyzed: 28-Jan-15		
(d10-Acenaphthene)	Total	92			% Recovery	100	0	92	50 - 150%	PASS	2	30	PASS
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	50 - 150%	PASS	0	30	PASS
(d12-Chrysene)	Total	105			% Recovery	100	0	105	50 - 150%	PASS	3	30	PASS
(d8-Naphthalene)	Total	89			% Recovery	100	0	89	25 - 125%	PASS	2	30	PASS
1-Methylnaphthalene	Total	1.5459	0.001	0.005	µg/L	1.5	0	103	50 - 150%	PASS	2	30	PASS
1-Methylphenanthrene	Total	0.5201	0.001	0.005	µg/L	0.5	0	104	50 - 150%	PASS	0	30	PASS
2,3,5-Trimethylnaphthalene	Total	0.4634	0.001	0.005	µg/L	0.5	0	93	50 - 150%	PASS	3	30	PASS
2,6-Dimethylnaphthalene	Total	0.439	0.001	0.005	µg/L	0.5	0	88	50 - 150%	PASS	2	30	PASS
2-Methylnaphthalene	Total	0.3779	0.001	0.005	µg/L	0.5	0	76	50 - 150%	PASS	7	30	PASS
Acenaphthene	Total	1.377	0.001	0.005	µg/L	1.5	0	92	50 - 150%	PASS	3	30	PASS
Acenaphthylene	Total	1.4223	0.001	0.005	µg/L	1.5	0	95	50 - 150%	PASS	3	30	PASS
Anthracene	Total	1.54	0.001	0.005	µg/L	1.5	0	103	50 - 150%	PASS	0	30	PASS
Benz[a]anthracene	Total	1.8285	0.001	0.005	µg/L	1.5	0	122	50 - 150%	PASS	2	30	PASS
Benzo[a]pyrene	Total	1.6291	0.001	0.005	µg/L	1.5	0	109	50 - 150%	PASS	0	30	PASS
Benzo[b]fluoranthene	Total	1.9991	0.001	0.005	µg/L	1.5	0	133	50 - 150%	PASS	2	30	PASS
Benzo[e]pyrene	Total	0.6226	0.001	0.005	µg/L	0.5	0	125	50 - 150%	PASS	1	30	PASS
Benzo[g,h,i]perylene	Total	1.5812	0.001	0.005	µg/L	1.5	0	105	50 - 150%	PASS	1	30	PASS
Benzo[k]fluoranthene	Total	1.6687	0.001	0.005	µg/L	1.5	0	111	50 - 150%	PASS	0	30	PASS
Biphenyl	Total	0.4396	0.001	0.005	µg/L	0.5	0	88	50 - 150%	PASS	2	30	PASS
Chrysene	Total	1.709	0.001	0.005	µg/L	1.5	0	114	50 - 150%	PASS	3	30	PASS
Dibenz[a,h]anthracene	Total	1.6434	0.001	0.005	µg/L	1.5	0	110	50 - 150%	PASS	2	30	PASS
Dibenzothiophene	Total	0.482	0.001	0.005	µg/L	0.5	0	96	50 - 150%	PASS	0	30	PASS
Fluoranthene	Total	1.592	0.001	0.005	µg/L	1.5	0	106	50 - 150%	PASS	1	30	PASS
Fluorene	Total	1.5305	0.001	0.005	µg/L	1.5	0	102	50 - 150%	PASS	1	30	PASS
Indeno[1,2,3-c,d]pyrene	Total	1.5845	0.001	0.005	µg/L	1.5	0	106	50 - 150%	PASS	1	30	PASS
Naphthalene	Total	1.294	0.001	0.005	µg/L	1.5	0	86	25 - 125%	PASS	2	30	PASS
Perylene	Total	0.6207	0.001	0.005	µg/L	0.5	0	124	50 - 150%	PASS	1	30	PASS
Phenanthrene	Total	1.5859	0.001	0.005	µg/L	1.5	0	106	50 - 150%	PASS	0	30	PASS
Pyrene	Total	1.6704	0.001	0.005	µg/L	1.5	0	111	50 - 150%	PASS	2	30	PASS

Total Ion Chromatogram REPORT

Sample ID: 30818

RT	Area Pct	Concentration (ng/L)	Library/ID	Qual	Cas Number
29.3941	5.4921	768	Anthracene-D10-	97	1719-06-8
73.5570	3.4549	606	Bis(ethoxycarbonyl)-5,5-dimethoxycarbonyl--N-methylisoxazolidine, 3,4-cis	64	71167-58-3
8.7272	3.3315	596	1,5-Heptadien-4-one, 3,3,6-trimethyl-	84	546-49-6
6.1816	2.1895	580	1-Propoxypropan-2-yl 2-methylbutanoate	71	1000367-10-7
80.9649	1.8718	550	4-Methyl-2,4-bis(4'-trimethylsilyloxyphenyl)pentene-1	71	1000283-56-8
7.3216	1.8125	595	7-Oxabicyclo[4.1.0]heptane	80	286-20-4
6.6400	1.7007	576	4-Methyl-2-hexene,c&t	73	3404-55-5
63.7925	1.3822	536	2-Oxo-6-phenyl-4-(4-hydroxyphenyl)-1,2-dihydropyrimidine	56	161200-20-0
73.5658	1.3623	539	2,5-Diphenyl-6,7-dihydropyrazolo[1,5-c]pyrimidin-7-one	68	110950-93-1
6.2266	1.1900	527	Butanoic acid, 2-hexenyl ester, (E)-	68	53398-83-7
6.1387	1.1785	561	2-Hydroxymethylcyclopentanol (cis)	70	1883-86-9
7.1190	1.1300	562	2H-Pyran, 2,5-diethenyltetrahydro-	70	25724-33-8
8.4633	1.0495	615	1-Propene, 3,3-diethoxy-	71	3054-95-3
9.9492	1.0046	592	Cyclohexane, 1,2-dichloro-, trans-	93	822-86-6
8.2253	0.8482	507	1,2,4,5-Tetrazine, 1,4-diethylhexahydro-	66	35035-69-9
49.2036	0.8462	507	Benzyl butyl phthalate	88	85-68-7
29.4074	0.8373	504	Benzoyl chloride, 3-(fluorosulfonyl)-	62	454-93-3
8.2884	0.8343	562	2-Cyclohexen-1-one	80	930-68-7
9.0078	0.7428	511	3,3-Diethoxy-1-propyne	77	10160-87-9
7.0982	0.7264	512	Cyclopentanol, 3-methyl-	72	18729-48-1
76.7062	0.7263	593	Benzamide, N-(2-iodo-4-methylphenyl)-2-fluoro-	57	1000307-08-6
81.9724	0.7087	608	1-(6-Methoxy-4-methyl-3-quinolinyl)-3,4-dimethyl-1H-pyrazol-5-ol	52	1000148-56-8
15.5133	0.6129	541	Propanoic acid, 2-methyl-, 3-hydroxy-2,4,4-trimethylpentyl ester	80	74367-34-3
9.0398	0.5824	544	3,3-Diethoxy-1-propyne	83	10160-87-9
15.0172	0.5670	535	Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(2-hydroxy-1-methylethyl)propyl ester	78	74367-33-2
19.9697	0.5302	541	Benzoic acid, 4-ethoxy-, ethyl ester	93	23676-09-7
6.3681	0.4972	538	Cyclopentanol, 2-methyl-, cis-	73	25144-05-2
6.5123	0.4898	539	3-Chlorohexane	74	2346-81-8
7.0580	0.4618	510	Furan, 2-methoxy-	90	25414-22-6
22.3294	0.4543	515	Diethyl Phthalate	97	84-66-2
85.0943	0.4407	538	Succinic acid, 5-fluoro-2-nitrophenyl 2,2,3,3,4,4,4-heptafluorobutyl ester	60	1000357-97-9
6.4269	0.4096	504	Acetic acid, (dodecahydro-7-hydroxy-1,4b,8,8-tetramethyl-10-oxo-2(1H)-phenanthrenylidene)-,2-(dimethylamino)ethyl ester	62	1000143-97-2
12.1177	0.4067	505	1-Hydroxycyclohexanecarboxylic acid	77	1123-28-0
9.6024	0.4063	510	Oxalic acid, cyclohexyl butyl ester	74	1000309-30-5
76.8683	0.4028	529	7H-Dibenzo[b,g]carbazole, 7a,8-dihydro-7a-methyl-	50	56114-47-7
6.3928	0.3984	541	Cyclopropanecarboxylic acid, 2-methylpentyl ester	70	1000354-65-8

7.1497	0.3808	521	(R)-(+)-3-Methylcyclopentanone	69	6672-30-6
7.8184	0.3683	528	Cyclohexanone	64	108-94-1
77.5880	0.3491	549	Succinic acid, 2-bromo-4-fluorophenyl 2,2,3,3,4,4,4-heptafluorobutyl ester	57	1000358-01-0
11.1718	0.3392	544	2,2-Dimethyl-cyclohex-3-en-1-ol	65	73374-46-6
88.7589	0.3180	525	4-Phenyl-acridan	64	55751-82-1
12.8364	0.3120	563	Nonanoic acid	65	112-05-0
6.3216	0.3026	550	1-Pentyn-1-ol, 4-methyl-	65	53778-57-7
13.5067	0.2771	506	Thymol	93	89-83-8
86.6389	0.2753	513	3-Amino-4-bromochromen-2-one	50	1000311-83-7
7.7490	0.2741	518	2-Cyclohexen-1-ol	73	822-67-3
84.7233	0.2682	586	Dioctylisobutylamine	54	1000310-32-2
8.0760	0.2645	581	3-Methoxyhex-1-ene	61	108811-41-2
9.9867	0.2289	508	1R,2c,3t,4t-Tetramethyl-cyclohexane	67	1000144-07-3
35.8852	0.2277	521	1,2-Benzenedicarboxylic acid, butyl 8-methylnonyl ester	60	89-18-9
7.9652	0.2254	563	Propanoic acid, 2-methylpropyl ester	62	540-42-1
9.3754	0.2001	524	Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl-	60	24903-95-5
73.5461	0.1984	523	Glycine, N-ethyl-n-propargyloxycarbonyl-, propyl ester	52	1000323-35-8
79.3556	0.1911	509	9,10-Anthracenedione, 1-(2-nitrophenyl)-	55	20600-83-3
8.0044	0.1895	507	Cyclohexene, 3-bromo-	80	1521-51-3
36.9047	0.1877	507	2-Furancarboxylic acid, 2-methylphenyl ester	58	17357-58-3
7.3935	0.1867	508	Butane, 1-(ethylthio)-	61	638-46-0
23.6627	0.1838	510	Benzophenone	96	119-61-9
9.1281	0.1802	541	3,3-Diethoxy-1-propyne	68	10160-87-9
9.3170	0.1792	541	Borinic acid, diethyl-	72	4426-31-7
6.4665	0.1612	517	Formic acid, 4,4-dimethylpent-2-yl ester	57	1000368-69-9
11.0620	0.1584	535	Cyclohexane, 3-ethyl-5-methyl-1-propyl-	64	1000151-39-5
55.3998	0.1558	526	Bis(2-ethylhexyl) phthalate	92	117-81-7
43.0662	0.1480	509	Octadecanoic acid	76	57-11-4
9.5513	0.1461	505	10-(Tetrahydro-pyran-2-yloxy)-tricyclo[4.2.1.1(2,5)]decan-9-ol	65	1000192-28-8
14.0662	0.1456	505	Cyclopentanamine	56	1003-03-8
32.3945	0.1446	511	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	84	84-69-5
9.0819	0.1440	512	Boric acid, trimethyl ester	61	121-43-7
73.1265	0.1414	503	1H-Isoindole-1,3(2H)-dione, 2-(4-nitrophenyl)-	53	31604-39-4
12.5428	0.1406	532	3-n-Propyl-5-methylhexan-2-one	63	1000202-22-8
9.4320	0.1406	541	7-Methyl-3-methylene-7-octen-1-ol, propanoate (ester)	60	73214-63-8
22.4130	0.1300	522	Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl ester	74	74381-40-1
9.6722	0.1298	522	Benzene, 1-ethynyl-4-methyl-	51	766-97-2
20.9498	0.1245	506	Disulfide, dihexyl	68	10496-15-8
73.5193	0.1218	503	4-Fluorobenzal chloride	51	456-19-9
12.9459	0.1210	503	Cyclohexanol, 2-bromo-, cis-	54	16536-57-5

11.2928	0.1203	511	Succinic acid, di(trans-hex-3-enyl) ester	68	1000353-43-7
7.9186	0.1202	518	2,5-Diamino-1,3,4-thiadiazole	68	2937-81-7
49.4615	0.1177	513	Octadecanoic acid, 2,3-dihydroxypropyl ester	59	123-94-4
8.8344	0.1159	513	Butyl 2-butoxyacetate	65	10397-22-5
30.3902	0.1146	517	Ethanedione, diphenyl-	73	134-81-6
8.0207	0.1129	522	Isothiazole	67	288-16-4
18.8777	0.1082	512	6,6-Diethylhoctadecane	54	1000360-41-8

Concentration estimated using the repsonse for Anthracene-d10

CHAIN OF CUSTODY

1407003-011

eurofins | Eaton Analytical

Ship To:
Physis Environmental Laboratories, Inc
1904 East Wright Circle

Anaheim, CA 92806-6028

Phone: 714-602-5320 Fax:

Submittal Form & Purchase Order 99-32694

Date: 1/9/2015

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **515305** Sub PO# **99-32694** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **HAWAII**

Physis - 8 containers per sample for MS/MSD batch QC. Only report to RL and place a comment in the report stating RL reporting only

See attached list for compounds

Folder #:	Report Due:	Sub PO #:
515305	01/23/2015	99-32694

JLS	Sub Lab Sample ID	Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201501090270	DH-43 (MOANALUA)		01/07/15 1230	DW		
EPA 625	@625A_Physis		625 Acid Extractable in ug/L				
EPA 625	@625BN_Physis		625 Base Neutral Extractable in ug/L				
EPA 625	@625PAH_Physis		625PAH in ug/L				

Relinquished by: Sample Control Date ____ Time ____

Received by: [signature] Date 1/9/15 Time 1645

Relinquished by: Sample Control Date ____ Time ____

Received by: ____ Date ____ Time ____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Physis - Kogolab

Analyte	Method
2,4,5-Trichlorophenol	EPA 625
2,4,6-Trichlorophenol	EPA 625
2,4-Dichlorophenol	EPA 625
2,4-Dinitrophenol	EPA 625
2,6-Dichlorophenol	EPA 625
2-chlorophenol	EPA 625
2-methylphenol	EPA 625
2-nitrophenol	EPA 625
4,6-Dinitro-2-methylphenol	EPA 625
4-chloro-3-methyl phenol	EPA 625
4-methylphenol	EPA 625
4-nitrophenol	EPA 625
benzoic acid	EPA 625
benzyl alcohol	EPA 625
phenol	EPA 625

Analyte	Method
2-chloronaphthalene	EPA 625
2-nitroaniline	EPA 625
3-nitroaniline	EPA 625
4-Bromophenyl phenyl	EPA 625
4-chlorophenyl phenyl ...	EPA 625
4-nitroaniline	EPA 625
aniline	EPA 625
benzidine	EPA 625
bis(2-Chloroethoxy)methane	EPA 625
bis(2-chloroethyl)ether	EPA 625
bis(2-Chloroisopropyl) ether	EPA 625
dibenzofuran	EPA 625
hexachloroethane	EPA 625
nitrobenzene	EPA 625
N-Nitrosodi-N-propylamine	EPA 625
N-Nitrosodiphenylamine	EPA 625
p-Chloroaniline	EPA 625

Analyte	Method
1-Methylnaphthalene	EPA 625
1-Methylphenanthrene	EPA 625
2,3,5-Trimethylnaphthalene	EPA 625
2,4,6-Trichlorophenol	EPA 625
2,6-Dimethylnaphthalene	EPA 625
2-methylnaphthalene	EPA 625
acenaphthene	EPA 625
acenaphthylene	EPA 625
anthracene	EPA 625
Benz(a)Anthracene	EPA 625
benzo(a)pyrene	EPA 625
benzo(b)fluoranthene	EPA 625
Benzo(e)pyrene	EPA 625
Benzo(g,h,i)perylene	EPA 625
benzo(k)fluoranthene	EPA 625
Biphenyl	EPA 625
chrysene	EPA 625
Dibenz(a,h)Anthracene	EPA 625
Dibenzothiophene	EPA 625
fluoranthene	EPA 625
fluorene	EPA 625
Indeno(1,2,3,c,d)Pyrene	EPA 625
naphthalene	EPA 625
pentachlorophenol	EPA 625
Perylene	EPA 625
phenanthrene	EPA 625
pyrene	EPA 625

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.

PHYSIS PROJECT ID
1407003-011

SAMPLE RECEIPT SUMMARY

CLIENT: Eurofins | Date Received: Jan 9, 2015 | Received By: RGH | Inspected By: RGH

COURIER
☐ PHYSIS ☑ CLIENT ☐ FEDEX ☐ UPS
start ____ end ____ ☐ OTHER: ____

COOLER
☑ COOLER ☐ BOX total # 1
☐ OTHER: ____

TEMPERATURE
2.4 °C ☑ WET ICE ☐ BLUE ICE ☐ DRY ICE ☐ NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... ***YES***
2. All sample containers arrived intact..... ***YES***
3. All samples listed on COC(s) are present..... ***YES***
4. Information on containers consistent with information on COC(s)..... ***YES***
5. Correct containers and volume for all analyses indicated..... ***YES***
6. All samples received within method holding time..... ***YES***
7. Correct preservation used for all analyses indicated..... ***YES***
8. Name of sampler included on COC(s)..... ***NO***

NOTES

Reset Form

1904 E. Wright Circle, Anaheim CA 92806 (714) 602-5320 main / (714) 602-5321 fax

Print Form

TABLE OF CONTENTS

CLIENT: **EUROFINS EATON ANALYTICAL**

PROJECT: **515305**

SDG: **15A041**

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-20-2015
EMAX Batch No.: 15A041

Attn: Jackie Contreras

Eurofins Eaton Analytical
750 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Subject: Laboratory Report
Project: 515305

Enclosed is the Laboratory report for samples received on 01/09/15.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
201501090270	A041-01	01/07/15	WATER	TPH GASOLINE
				TPH
				ORGANIC LEAD
201501090271	A041-02	01/06/15	WATER	TPH
201501090272	A041-03	01/07/15	WATER	TPH GASOLINE

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing

eurofins | Eaton Analytical

Ship To:
EMAX Laboratories, Inc.
1835 W. 205th St.

Torrance, CA 90501

Phone: 310-618-8889 Fax: 310-618-0818

Submittal Form & Purchase Order 99-32692 15A041

Date: 1/9/2015

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **515305** Sub PO# **99-32692** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **HAWAII**

EMAX - 4 or 3 containers per sample for MS/MSD batch QC. Low level RL reporting only

Folder #:	Report Due:	Sub PO #:
515305	01/23/2015	99-32692

JLS	Lee Lab Order # for ID / *Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201501090270 DH-43 (MOANALUA)		01/07/15 1230	DW		
SW 8015B	(SUB)Gas Fraction Hydrocarbons	(SUB)Gas Fraction Hydrocarbons				
GFAA	Organic Lead_Emax	Organic Lead				
SW 8015B	TPH 8015 Diesel and Motor Oil	TPH 8015 Diesel and Motor Oil				
EPA 8015	TPH 8015 Jet Fuel 5	Jet Fuel 5 C8-C18				
EPA 8015	TPH 8015 Jef Fuel 8	Jet Fuel 8 C8-C18				
	201501090271 Equipment Blank DH-43		01/06/15 1530	DW		
SW 8015B	TPH 8015 Diesel and Motor Oil	TPH 8015 Diesel and Motor Oil				
EPA 8015	TPH 8015 Jet Fuel 5	Jet Fuel 5 C8-C18				
EPA 8015	TPH 8015 Jef Fuel 8	Jet Fuel 8 C8-C18				
	201501090272 TRAVEL BLANK raw (DH-43)		01/07/15 1230	DW		
SW 8015B	(SUB)Gas Fraction Hydrocarbons	(SUB)Gas Fraction Hydrocarbons				

Relinquished by: Sample Control Date 1/9/15 Time 1454

Received by: Keith Stout Date 1-9-15 Time 1454

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Temp. 2.4° C

SAMPLE RECEIPT FORM 1

Reference Number: SM02.7.3

Type of Delivery	Airbill / Tracking Number	ECN 15A041
☐ Fedex ☐ UPS ☐ GSO ☐ Others		Recipient Keith S.
☐ EMAX Courier ☑ Client Delivery		Date 01/09/15 Time 1454

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☐ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☑ Rad screening required		

Note:

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☐ Cooler 1 _____ °C	☐ Cooler 2 _____ °C	☑ Cooler 3 2.4 °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N* 130538305	*B - S/N* 140257078	*C - S/N* _____	*D - S/N* _____	

Comments: ☐ **Temperature is out of range. PM was informed IMMEDIATELY.** FM 10/27/14

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
1,2	1-12, 13-14	D6		R8
3	15-16	D6 D22		R1 - R8

1/9/15

AB 1/12/15

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

LEGEND:

☐ Continue to next page.

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	2 diff sampling dates on labels
D23	1/7 & 1/2
D24	

1-9-15

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Inform client
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling _____ Date 1/9/15

SRF _____ Date 1/12/15

PM AB Date 1/12/15

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

515305

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 15A041

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 515305

SDG : 15A041

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 01/09/15 to be analyzed for Total Petroleum Hydrocarbons by Purge And Trap in accordance with Method 5030B/M8015 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two(2) method blanks were analyzed. VG39A09B and VG39A12B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two(2) sets of LCS/LCD were analyzed. Gasoline was within LCS QC limits in VG39A09L/VG39A09C. Gasoline was within LCS QC limits in VG39A12L/VG39A12C. Refer to LCS summary forms for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within LCS QC limits in A041-01M/A041-01S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 515305

SDG NO. : 15A041
Instrument ID : GCT039

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VG39A09B	1	NA	01/12/1514:00	01/12/1514:00	EA12006A	EA12003A	VG39A09	Method Blank
LCS1W	VG39A09L	1	NA	01/12/1512:37	01/12/1512:37	EA12004A	EA12003A	VG39A09	Lab Control Sample (LCS)
LCD1W	VG39A09C	1	NA	01/12/1513:16	01/12/1513:16	EA12005A	EA12003A	VG39A09	LCS Duplicate
MBLK2W	VG39A12B	1	NA	01/14/1513:28	01/14/1513:28	EA14006A	EA14003A	VG39A12	Method Blank
LCS2W	VG39A12L	1	NA	01/14/1512:05	01/14/1512:05	EA14004A	EA14003A	VG39A12	Lab Control Sample (LCS)
LCD2W	VG39A12C	1	NA	01/14/1512:44	01/14/1512:44	EA14005A	EA14003A	VG39A12	LCS Duplicate
201501090270	A041-01	1	NA	01/14/1516:46	01/14/1516:46	EA14011A	EA14003A	VG39A12	Field Sample
201501090270MS	A041-01M	1	NA	01/14/1518:04	01/14/1518:04	EA14013A	EA14012A	VG39A12	Matrix Spike Sample (MS)
201501090270MSD	A041-01S	1	NA	01/14/1518:43	01/14/1518:43	EA14014A	EA14012A	VG39A12	MS Duplicate (MSD)
201501090272	A041-03	1	NA	01/12/1516:39	01/12/1516:39	EA12010A	EA12003A	VG39A09	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/07/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/14/15 16:46
Sample ID: 201501090270	Date Analyzed: 01/14/15 16:46
Lab Samp ID: A041-01	Dilution Factor: 1
Lab File ID: EA14011A	Matrix : WATER
Ext Btch ID: VG39A12	% Moisture : NA
Calib. Ref.: EA14003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0350	0.04000	87.6	60-140

Parameter	H-C Range
Gasoline	C6-C10

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/07/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:39
Sample ID: 201501090272	Date Analyzed: 01/12/15 16:39
Lab Samp ID: A041-03	Dilution Factor: 1
Lab File ID: EA12010A	Matrix : WATER
Ext Btch ID: VG39A09	% Moisture : NA
Calib. Ref.: EA12003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0330	0.04000	82.4	60-140

Parameter	H-C Range
Gasoline	C6-C10

QC SUMMARIES

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL	Date Collected: NA
Project : 515305	Date Received: 01/12/15
Batch No. : 15A041	Date Extracted: 01/12/15 14:00
Sample ID: MBLK1W	Date Analyzed: 01/12/15 14:00
Lab Samp ID: VG39A09B	Dilution Factor: 1
Lab File ID: EA12006A	Matrix : WATER
Ext Btch ID: VG39A09	% Moisture : NA
Calib. Ref.: EA12003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0353	0.04000	88.3	70-130

Parameter	H-C Range
Gasoline	C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 5030B/M8015

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: VG39A09B VG39A09L VG39A09C
LAB FILE ID: EA12006A EA12004A EA12005A
DATE EXTRACTED: 01/12/1514:00 01/12/1512:37 01/12/1513:16 DATE COLLECTED: NA
DATE ANALYZED: 01/12/1514:00 01/12/1512:37 01/12/1513:16 DATE RECEIVED: 01/12/15
PREP. BATCH: VG39A09 VG39A09 VG39A09
CALIB. REF: EA12003A EA12003A EA12003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	0.500	0.451	90	0.500	0.459	92	2	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	0.0400	0.0395	99	0.0400	0.0394	98	70-130

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL	Date Collected: NA
Project : 515305	Date Received: 01/14/15
Batch No. : 15A041	Date Extracted: 01/14/15 13:28
Sample ID: MBLK2W	Date Analyzed: 01/14/15 13:28
Lab Samp ID: VG39A12B	Dilution Factor: 1
Lab File ID: EA14006A	Matrix : WATER
Ext Btch ID: VG39A12	% Moisture : NA
Calib. Ref.: EA14003A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	0.0346	0.04000	86.5	70-130

Parameter	H-C Range
Gasoline	C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	VG39A12B	VG39A12L	VG39A12C		
LAB FILE ID:	EA14006A	EA14004A	EA14005A		
DATE EXTRACTED:	01/14/1513:28	01/14/1512:05	01/14/1512:44	DATE COLLECTED:	NA
DATE ANALYZED:	01/14/1513:28	01/14/1512:05	01/14/1512:44	DATE RECEIVED:	01/14/15
PREP. BATCH:	VG39A12	VG39A12	VG39A12		
CALIB. REF:	EA14003A	EA14003A	EA14003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	0.500	0.492	98	0.500	0.486	97	1	60-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	0.0400	0.0409	102	0.0400	0.0412	103	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	201501090270				
LAB SAMP ID:	A041-01	A041-01M	A041-01S		
LAB FILE ID:	EA14011A	EA14013A	EA14014A		
DATE EXTRACTED:	01/14/1516:46	01/14/1518:04	01/14/1518:43	DATE COLLECTED:	01/07/15
DATE ANALYZED:	01/14/1516:46	01/14/1518:04	01/14/1518:43	DATE RECEIVED:	01/09/15
PREP. BATCH:	VG39A12	VG39A12	VG39A12		
CALIB. REF:	EA14003A	EA14012A	EA14012A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	0.500	0.498	100	0.500	0.469	94	6	50-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	0.0400	0.0410	102	0.0400	0.0396	99	60-140

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

515305

METHOD 3520C/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 15A041

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 515305

SDG : 15A041

METHOD 3520C/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 01/09/15 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/M8015 and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSA003WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, three(3) sets of LCS/LCD were analyzed for Diesel. Diesel was within LCS QC limits in DSA003WL/DSA003WC, J5A003WL/J5A003WC and J8A003WL/J8A003WC. Refer to LCS summary forms for details.

Matrix QC Sample
No matrix QC sample was designated on this SDG.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 515305

SDG NO. : 15A041
Instrument ID : GCT105

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSA003WB	1	NA	01/15/1501:46	01/12/1516:00	LA14050A	LA14047A	DSA003W	Method Blank
LCS1W	DSA003WL	1	NA	01/15/1502:03	01/12/1516:00	LA14051A	LA14047A	DSA003W	Lab Control Sample (LCS)
LCD1W	DSA003WC	1	NA	01/15/1502:20	01/12/1516:00	LA14052A	LA14047A	DSA003W	LCS Duplicate
201501090270	A041-01	1.11	NA	01/15/1506:15	01/12/1516:00	LA14066A	LA14060A	DSA003W	Field Sample
201501090271	A041-02	1.01	NA	01/15/1507:39	01/12/1516:00	LA14071A	LA14060A	DSA003W	Field Sample

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 515305

SDG NO. : 15A041
Instrument ID : GCT105

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSA003WB	1	NA	01/15/1501:46	01/12/1516:00	LA14050A	LA14047A	DSA003W	Method Blank
LCS1W	J5A003WL	1	NA	01/15/1502:37	01/12/1516:00	LA14053A	LA14047A	DSA003W	Lab Control Sample (LCS)
LCD1W	J5A003WC	1	NA	01/15/1502:54	01/12/1516:00	LA14054A	LA14047A	DSA003W	LCS Duplicate
201501090270	A041-01	1.11	NA	01/15/1506:15	01/12/1516:00	LA14066A	LA14060A	DSA003W	Field Sample
201501090270MS	A041-01M	1.04	NA	01/15/1506:32	01/12/1516:00	LA14067A	LA14060A	DSA003W	Matrix Spike Sample (MS)
201501090270MSD	A041-01S	1.04	NA	01/15/1506:49	01/12/1516:00	LA14068A	LA14060A	DSA003W	MS Duplicate (MSD)
201501090271	A041-02	1.01	NA	01/15/1507:39	01/12/1516:00	LA14071A	LA14060A	DSA003W	Field Sample

FN - Filename
% Moist - Percent Moisture

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 515305

SDG NO. : 15A041
Instrument ID : GCT105

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSA003WB	1	NA	01/15/1501:46	01/12/1516:00	LA14050A	LA14047A	DSA003W	Method Blank
LCS1W	J8A003WL	1	NA	01/15/1503:10	01/12/1516:00	LA14055A	LA14047A	DSA003W	Lab Control Sample (LCS)
LCD1W	J8A003WC	1	NA	01/15/1503:27	01/12/1516:00	LA14056A	LA14047A	DSA003W	LCS Duplicate
201501090270	A041-01	1.11	NA	01/15/1506:15	01/12/1516:00	LA14066A	LA14060A	DSA003W	Field Sample
201501090270MS	A041-01M	0.96	NA	01/15/1507:06	01/12/1516:00	LA14069A	LA14060A	DSA003W	Matrix Spike Sample (MS)
201501090270MSD	A041-01S	0.97	NA	01/15/1507:23	01/12/1516:00	LA14070A	LA14060A	DSA003W	MS Duplicate (MSD)
201501090271	A041-02	1.01	NA	01/15/1507:39	01/12/1516:00	LA14071A	LA14060A	DSA003W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/07/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: 201501090270	Date Analyzed: 01/15/15 06:15
Lab Samp ID: A041-01	Dilution Factor: 1.11
Lab File ID: LA14066A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14060A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	0.028	0.014
MOTOR OIL	ND	0.056	0.028

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.876	1.110	78.9	60-130
HEXACOSANE	0.221	0.2775	79.7	60-130

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/07/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: 201501090270	Date Analyzed: 01/15/15 06:15
Lab Samp ID: A041-01	Dilution Factor: 1.11
Lab File ID: LA14066A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14060A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.056	0.028

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.876	1.110	78.9	60-130
HEXACOSANE	0.221	0.2775	79.7	60-130

RL : Reporting Limit

Parameter	H-C Range
JP5	C8-C18

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/07/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: 201501090270	Date Analyzed: 01/15/15 06:15
Lab Samp ID: A041-01	Dilution Factor: 1.11
Lab File ID: LA14066A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14060A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.056	0.028

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.876	1.110	78.9	60-130
HEXACOSANE	0.221	0.2775	79.7	60-130

RL : Reporting Limit

Parameter	H-C Range
JP8	C8-C18

METHOD 3520C/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	01/06/15
Project	: 515305	Date Received:	01/09/15
Batch No.	: 15A041	Date Extracted:	01/12/15 16:00
Sample ID:	201501090271	Date Analyzed:	01/15/15 07:39
Lab Samp ID:	A041-02	Dilution Factor:	1.01
Lab File ID:	LA14071A	Matrix :	WATER
Ext Btch ID:	DSA003W	% Moisture :	NA
Calib. Ref.:	LA14060A	Instrument ID :	GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	0.025	0.013
MOTOR OIL	ND	0.051	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.772	1.010	76.5	60-130
HEXACOSANE	0.211	0.2525	83.5	60-130

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/06/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: 201501090271	Date Analyzed: 01/15/15 07:39
Lab Samp ID: A041-02	Dilution Factor: 1.01
Lab File ID: LA14071A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14060A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.051	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.772	1.010	76.5	60-130
HEXACOSANE	0.211	0.2525	83.5	60-130

RL : Reporting Limit

Parameter	H-C Range
JP5	C8-C18

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: 01/06/15
Project : 515305	Date Received: 01/09/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: 201501090271	Date Analyzed: 01/15/15 07:39
Lab Samp ID: A041-02	Dilution Factor: 1.01
Lab File ID: LA14071A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14060A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.051	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.772	1.010	76.5	60-130
HEXACOSANE	0.211	0.2525	83.5	60-130

RL : Reporting Limit

Parameter	H-C Range
JP8	C8-C18

QC SUMMARIES

METHOD 3520C/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	NA
Project	: 515305	Date Received:	01/12/15
Batch No.	: 15A041	Date Extracted:	01/12/15 16:00
Sample ID:	MBLK1W	Date Analyzed:	01/15/15 01:46
Lab Samp ID:	DSA003WB	Dilution Factor:	1
Lab File ID:	LA14050A	Matrix	: WATER
Ext Btch ID:	DSA003W	% Moisture	: NA
Calib. Ref.:	LA14047A	Instrument ID	: GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	0.025	0.012
MOTOR OIL	ND	0.050	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.859	1.000	85.9	60-130
HEXACOSANE	0.222	0.2500	88.8	60-130

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 3520C/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA003WB	DSA003WL	DSA003WC		
LAB FILE ID:	LA14050A	LA14051A	LA14052A		
DATE EXTRACTED:	01/12/1516:00	01/12/1516:00	01/12/1516:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/1501:46	01/15/1502:03	01/15/1502:20	DATE RECEIVED:	01/12/15
PREP. BATCH:	DSA003W	DSA003W	DSA003W		
CALIB. REF:	LA14047A	LA14047A	LA14047A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5.00	4.08	82	5.00	4.15	83	2	50-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1.00	0.908	91	1.00	0.887	89	60-130
Hexacosane	0.250	0.226	90	0.250	0.234	94	60-130

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: NA
Project : 515305	Date Received: 01/12/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: MBLK1W	Date Analyzed: 01/15/15 01:46
Lab Samp ID: DSA003WB	Dilution Factor: 1
Lab File ID: LA14050A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14047A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.050	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.859	1.000	85.9	60-130
HEXACOSANE	0.222	0.2500	88.8	60-130

RL : Reporting Limit

Parameter	H-C Range
JP5	C8-C18

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 3520C/8015 Mod

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA003WB	J5A003WL	J5A003WC		
LAB FILE ID:	LA14050A	LA14053A	LA14054A		
DATE EXTRACTED:	01/12/1516:00	01/12/1516:00	01/12/1516:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/1501:46	01/15/1502:37	01/15/1502:54	DATE RECEIVED:	01/12/15
PREP. BATCH:	DSA003W	DSA003W	DSA003W		
CALIB. REF:	LA14047A	LA14047A	LA14047A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
JP5	ND	5.00	5.05	101	5.00	5.46	109	8	30-160	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1.00	0.938	94	1.00	0.925	93	60-130
Hexacosane	0.250	0.214	86	0.250	0.207	83	60-130

METHOD 3520C/8015 Mod
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL	Date Collected: NA
Project : 515305	Date Received: 01/12/15
Batch No. : 15A041	Date Extracted: 01/12/15 16:00
Sample ID: MBLK1W	Date Analyzed: 01/15/15 01:46
Lab Samp ID: DSA003WB	Dilution Factor: 1
Lab File ID: LA14050A	Matrix : WATER
Ext Btch ID: DSA003W	% Moisture : NA
Calib. Ref.: LA14047A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.050	0.025

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.859	1.000	85.9	60-130
HEXACOSANE	0.222	0.2500	88.8	60-130

RL : Reporting Limit

Parameter	H-C Range
JP8	C8-C18

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515092
BATCH NO.: 15A041
METHOD: METHOD 3520C/8015 Mod

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA003WB	J8A003WL	J8A003WC		
LAB FILE ID:	LA14050A	LA14055A	LA14056A		
DATE EXTRACTED:	01/12/1516:00	01/12/1516:00	01/12/1516:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/1501:46	01/15/1503:10	01/15/1503:27	DATE RECEIVED:	01/12/15
PREP. BATCH:	DSA003W	DSA003W	DSA003W		
CALIB. REF:	LA14047A	LA14047A	LA14047A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
JP8	ND	5.00	3.47	69	5.00	3.82	76	10	30-160	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1.00	0.900	90	1.00	0.979	98	60-130
Hexacosane	0.250	0.195	78	0.250	0.220	88	60-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 3520C/8015 Mod

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1.11	1.04	1.04		
SAMPLE ID:	201501090270				
LAB SAMP ID:	A041-01	A041-01M	A041-01S		
LAB FILE ID:	LA14066A	LA14067A	LA14068A		
DATE EXTRACTED:	01/12/1516:00	01/12/1516:00	01/12/1516:00	DATE COLLECTED:	01/07/15
DATE ANALYZED:	01/15/1506:15	01/15/1506:32	01/15/1506:49	DATE RECEIVED:	01/09/15
PREP. BATCH:	DSA003W	DSA003W	DSA003W		
CALIB. REF:	LA14060A	LA14060A	LA14060A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
JP5	ND	5.20	5.90	113	5.20	5.59	108	5	30-160	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromobenzene	1.04	0.983	95	1.04	0.914	88	60-130
Hexacosane	0.260	0.215	83	0.260	0.196	75	60-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: METHOD 3520C/8015 Mod

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1.11	0.96	0.97		
SAMPLE ID:	201501090270				
LAB SAMP ID:	A041-01	A041-01M	A041-01S		
LAB FILE ID:	LA14066A	LA14069A	LA14070A		
DATE EXTRACTED:	01/12/1516:00	01/12/1516:00	01/12/1516:00	DATE COLLECTED:	01/07/15
DATE ANALYZED:	01/15/1506:15	01/15/1507:06	01/15/1507:23	DATE RECEIVED:	01/09/15
PREP. BATCH:	DSA003W	DSA003W	DSA003W		
CALIB. REF:	LA14060A	LA14060A	LA14060A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
JP8	ND	4.80	3.69	77	4.85	3.88	80	5	30-160	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromobenzene	0.960	1.05	109	0.970	1.07	111	60-130
Hexacosane	0.240	0.213	89	0.242	0.213	88	60-130

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

515305

METHOD 939-M
ORGANIC LEAD BY GFAA

SDG#: 15A041

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 515305

SDG : 15A041

METHOD 939-M
ORGANIC LEAD BY GFAA

One(1) water sample was received on 01/09/15 to be analyzed for Organic Lead by GFAA in accordance with Method 939-M and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Calibration was performed as prescribed by the method and was verified using a secondary source (ICV). All calibration requirements were within acceptance criteria.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. Organic Lead was not detected in OLA003WB. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Organic Lead was within LCS QC limits in OLA003WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) MS was analyzed and the following was noted: A041-01M - Organic Lead was out of MS QC limits. Presence of matrix interference was suspected. Analytical spike was analyzed and results were within expected values. Sample duplicate was analyzed and RPD was within expected value. Refer to Matrix QC summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
ORGANIC LEAD BY GFAA

Client : EUROFINS EATON ANALYTICAL
Project : 515305

SDG NO. : 15A041
Instrument ID : 20

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	OLA003WB	1	NA	01/16/1512:18	01/16/1509:30	G15A003011	G15A003009	OLA003W	Method Blank
LCS1W	OLA003WL	1	NA	01/16/1512:23	01/16/1509:30	G15A003012	G15A003009	OLA003W	Lab Control Sample (LCS)
201501090270AS	A041-01A	1	NA	01/16/1512:33	01/16/1509:30	G15A003014	G15A003009	OLA003W	Analytical Spike Sample
201501090270MS	A041-01M	1	NA	01/16/1512:38	01/16/1509:30	G15A003015	G15A003009	OLA003W	Matrix Spike Sample (MS)
201501090270DUP	A041-01D	1	NA	01/16/1512:43	01/16/1509:30	G15A003016	G15A003009	OLA003W	Duplicate Sample
201501090270	A041-01	1	NA	01/16/1512:48	01/16/1509:30	G15A003017	G15A003009	OLA003W	Field Sample

FN - Filename
% Moist - Percent Moisture

939-M
ORGANIC LEAD BY GFAA

Client : EUROFINS EATON ANALYTICAL
Project : 515305
Batch No. : 15A041

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	OLA003WB	ND	1	NA	5.00	2.50	01/16/1512:18	01/16/1509:30	G15A003011	G15A003009	OLA003W	NA	01/16/15
LCS1W	OLA003WL	13.8	1	NA	5.00	2.50	01/16/1512:23	01/16/1509:30	G15A003012	G15A003009	OLA003W	NA	01/16/15
201501090270AS	A041-01A	14.0	1	NA	5.00	2.50	01/16/1512:33	01/16/1509:30	G15A003014	G15A003009	OLA003W	01/07/15	01/09/15
201501090270MS	A041-01M	17.1	1	NA	5.00	2.50	01/16/1512:38	01/16/1509:30	G15A003015	G15A003009	OLA003W	01/07/15	01/09/15
201501090270DUP	A041-01D	ND	1	NA	5.00	2.50	01/16/1512:43	01/16/1509:30	G15A003016	G15A003009	OLA003W	01/07/15	01/09/15
201501090270	A041-01	ND	1	NA	5.00	2.50	01/16/1512:48	01/16/1509:30	G15A003017	G15A003009	OLA003W	01/07/15	01/09/15

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
SDG NO.: 15A041
METHOD: 939-M

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MBLK1W			
CONTROL NO.:	OLA003WB	OLA003WL		
LAB FILE ID:	G15A003011	G15A003012		
DATIME EXTRCTD:	01/16/1509:30	01/16/1509:30	DATE COLLECTED:	NA
DATIME ANALYZD:	01/16/1512:18	01/16/1512:23	DATE RECEIVED:	01/16/15
PREP. BATCH:	OLA003W	OLA003W		
CALIB. REF:	G15A003009	G15A003009		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	QC LIMIT (%)
Organic Lead	ND	14	13.8	99	80-120

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
SDG NO.: 15A041
METHOD: 939-M

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	201501090270			
CONTROL NO.:	A041-01	A041-01M		
LAB FILE ID:	G15A003017	G15A003015		
DATIME EXTRCTD:	01/16/1509:30	01/16/1509:30	DATE COLLECTED:	01/07/15
DATIME ANALYZD:	01/16/1512:48	01/16/1512:38	DATE RECEIVED:	01/09/15
PREP. BATCH:	OLA003W	OLA003W		
CALIB. REF:	G15A003009	G15A003009		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	QC LIMIT (%)
Organic Lead	ND	14	17.1	122*	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
BATCH NO.: 15A041
METHOD: 939-M

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	201501090270	201501090270DUP		
EMAX SAMP ID:	A041-01	A041-01D		
LAB FILE ID:	G15A003017	G15A003016		
DATE EXTRACTED:	01/16/1509:30	01/16/1509:30	DATE COLLECTED:	01/07/15
DATE ANALYZED:	01/16/1512:48	01/16/1512:43	DATE RECEIVED:	01/09/15
PREP. BATCH:	OLA003W	OLA003W		
CALIB. REF:	G15A003009	G15A003009		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	DUPL RSLT (ug/L)	RPD RSLT %	QC LIMIT (%)
Organic Lead	ND	ND	0	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: EUROFINS EATON ANALYTICAL
PROJECT: 515305
SDG NO.: 15A041
METHOD: 939-M

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	201501090270			
CONTROL NO.:	A041-01	A041-01A		
LAB FILE ID:	G15A003017	G15A003014		
DATIME EXTRCTD:	01/16/1509:30	01/16/1509:30	DATE COLLECTED:	01/07/15
DATIME ANALYZD:	01/16/1512:48	01/16/1512:33	DATE RECEIVED:	01/09/15
PREP. BATCH:	OLA003W	OLA003W		
CALIB. REF:	G15A003009	G15A003009		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Organic Lead	ND	14	14	100	80-120

ANALYTICAL RESULTS

Prepared by:

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Lancaster, PA 17601

Prepared for:

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Suite 100
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Monrovia CA 91016

January 23, 2015

Project: 515305

Submittal Date: 01/14/2015
Group Number: 1531101
PO Number: 99-32708
State of Sample Origin: HI

Client Sample Description	Lancaster Labs (LL) #
201501090270 Water	7738732

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO Eurofins Eaton Analytical, Inc Attn: EEAL Reports

Respectfully Submitted,

Nicole L. Maljovec
Manager

(717) 556-7259

Sample Description: 201501090270 Water
Folder# 515305 Sub PO# 99-32708 Job# 1000014
515305

LL Sample # WW 7738732
LL Group # 1531101
Account # 14482

Project Name: 515305

Collected: 01/07/2015 12:30

Submitted: 01/14/2015 09:30
Reported: 01/23/2015 13:13

Eurofins Eaton Analytical, Inc
Suite 100
750 Royal Oaks Drive
Monrovia CA 91016

DH-43

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous	**EPA 1671 Rev A**		ug/l	ug/l	ug/l	
02366	ethanol	64-17-5	< 2,000	2,000	670	1

The response for a target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. The following corrective action was taken: The analysis was repeated and the continuing calibration verification standard bracketing the sample on the second trial is also outside the acceptance limits. This effect is attributed to the sample matrix and the data is reported.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02366	PMI DAI-VOCs by 1671	EPA 1671 Rev A	1	150160014A	01/17/2015 03:29	Tyler O Griffin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Eurofins Eaton Analytical, Inc Group Number: 1531101
Reported: 01/23/15 at 01:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ**	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 150160014A	Sample number(s): 7738732								
ethanol	< 2,000	2,000.	670	ug/l	101	87	70-132	15	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 150160014A	Sample number(s): 7738732 UNSPK: P733915								
ethanol	104	120	70-132	14	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PMI DAI-VOCs by 1671
Batch number: 150160014A

	Amyl Alcohol
7738732	85
Blank	95
LCS	107
LCSD	96
MS	95
MSD	96
Limits:	52-144

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

A-14482 G-1531101 S-7738732

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Submittal Form & Purchase Order 99-32708

Date: 1/13/2015

Ship To:
Eurofins Lancaster Laboratories
2425 New Holland Pike

Lancaster, PA 17601

Phone: 717-656-2300 Fax:

*REPORTING REQUIRMENTS: ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!***
Report & Invoice must have the Folder # **515305** Sub PO# **99-32708** and Job # **1000014**

Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **HAWAII**

Folder #:	Report Due:	Sub PO #:
515305	01/28/2015	99-32708

ADT	Use Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201501090270	DH-43 (MOANALUA)		01/07/15 1230	DW		
EPA 1671	Ethanol in Water by 1671_ELLI		Ethanol				

Relinquished by: M. DE MESA Sample Control EEA Date 1-13-15 Time 1327

Received by: _____ Date _____ Time _____

Relinquished by: _____ Sample Control _____ Date _____ Time _____

Received by: _____ Date 1.14.15 Time 930

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 50565

Group Number(s): 1531101

Client: Eaton Analytical

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	01/14/2015 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	CA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Brandy Barclay (2299) at 11:22 on 01/14/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	8013596-IR	1.7	IR	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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