16-Mar-2016

Scott Smith
Water Defense
PO Box 204
Livingston Manor, NY 12758

Tel: (508) 345-6520
Fax:

Re: Melissa Mays Work Order: **1603337**

Dear Scott,

ALS Environmental received 5 samples on 10-Mar-2016 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 41.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

ALS Environmental

Date: 16-Mar-16

Client: Water Defense
Project: Melissa Mays
Work Order: **1603337**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1603337-01	Grab Sample Bathtub	Water		3/6/2016 11:00	3/10/2016	☐
1603337-02	Waterbug Bathtub 30 Min	Bulk		3/6/2016 11:00	3/10/2016	☐
1603337-03	WaterBug Bathroom Sink 30 Min	Bulk		3/6/2016 11:00	3/10/2016	☐
1603337-04	Grab Sample Water Heater	Water		3/6/2016 10:45	3/10/2016	☐
1603337-05	Waterbug Water Heater	Bulk		3/6/2016 10:45	3/10/2016	☐

ALS Environmental

Date: 16-Mar-16

Client: Water Defense
Project: Melissa Mays
Work Order: 1603337

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Bathtub
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **3/11/2016**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	3/11/2016
METALS BY ICP			**SW6010B**		Prep Date: **3/11/2016**	Analyst: **SRL**
Aluminum	**0.23**		**0.20**	**mg/L**	1	3/11/2016 02:36 PM
Arsenic	ND		0.010	mg/L	1	3/11/2016 02:36 PM
Barium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Beryllium	ND		0.0040	mg/L	1	3/11/2016 02:36 PM
Cadmium	ND		0.0050	mg/L	1	3/11/2016 02:36 PM
Calcium	**29**		**0.20**	**mg/L**	1	3/11/2016 02:36 PM
Chromium	ND		0.020	mg/L	1	3/11/2016 02:36 PM
Cobalt	ND		0.050	mg/L	1	3/11/2016 02:36 PM
Copper	ND		0.025	mg/L	1	3/11/2016 02:36 PM
Iron	ND		0.20	mg/L	1	3/11/2016 02:36 PM
Lead	ND		0.015	mg/L	1	3/11/2016 02:36 PM
Lithium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Magnesium	**8.2**		**0.20**	**mg/L**	1	3/11/2016 02:36 PM
Manganese	ND		0.050	mg/L	1	3/11/2016 02:36 PM
Molybdenum	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Nickel	ND		0.040	mg/L	1	3/11/2016 02:36 PM
Phosphorus	**0.77**		**0.10**	**mg/L**	1	3/11/2016 02:36 PM
Platinum	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Selenium	ND		0.030	mg/L	1	3/11/2016 02:36 PM
Silver	ND		0.010	mg/L	1	3/11/2016 02:36 PM
Sodium	**5.0**		**0.20**	**mg/L**	1	3/11/2016 02:36 PM
Tellurium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Thallium	ND		0.0020	mg/L	1	3/11/2016 02:36 PM
Tin	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Titanium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Tungsten	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Vanadium	ND		0.050	mg/L	1	3/11/2016 02:36 PM
Yttrium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
Zinc	ND		0.050	mg/L	1	3/11/2016 02:36 PM
Zirconium	ND		0.10	mg/L	1	3/11/2016 02:36 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Bathtub
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
2-Butanone	ND		5.0	µg/L	1	3/14/2016 01:17 PM
2-Chlorotoluene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
2-Hexanone	ND		5.0	µg/L	1	3/14/2016 01:17 PM
4-Chlorotoluene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Acetone	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Benzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Bromobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Bromochloromethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Bromodichloromethane	**5.2**		**5.0**	**µg/L**	1	3/14/2016 01:17 PM
Bromoform	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Bromomethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Carbon disulfide	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Carbon tetrachloride	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Chlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Chloroethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Chloroform	**21**		**5.0**	**µg/L**	1	3/14/2016 01:17 PM
Chloromethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Dibromochloromethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Dibromomethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Ethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Bathtub
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Isopropylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
m,p-Xylene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Methylene chloride	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Naphthalene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
n-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
n-Propylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
o-Xylene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
sec-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Styrene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
tert-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Tetrachloroethene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Toluene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Trichloroethene	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	3/14/2016 01:17 PM
Vinyl chloride	ND		2.0	µg/L	1	3/14/2016 01:17 PM
Xylenes, Total	ND		10	µg/L	1	3/14/2016 01:17 PM
Surr: 4-Bromofluorobenzene	*83.4*		*61-131*	*%REC*	1	3/14/2016 01:17 PM
Surr: Dibromofluoromethane	*99.4*		*87-126*	*%REC*	1	3/14/2016 01:17 PM
Surr: Toluene-d8	*96.9*		*84-111*	*%REC*	1	3/14/2016 01:17 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Bathtub 30 Min
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-02
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471A**		Prep Date: **3/11/2016**	Analyst: **VAW**
Mercury	ND		0.30	mg/Kg	1	3/11/2016
METALS BY ICP			**SW6010B**		Prep Date: **3/10/2016**	Analyst: **SRL**
Aluminum	ND		460	mg/Kg	1	3/11/2016 01:57 PM
Arsenic	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Barium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Beryllium	ND		0.46	mg/Kg	1	3/11/2016 01:57 PM
Cadmium	ND		0.91	mg/Kg	1	3/11/2016 01:57 PM
Calcium	ND		4,400	mg/Kg	1	3/11/2016 01:57 PM
Chromium	ND		1.8	mg/Kg	1	3/11/2016 01:57 PM
Cobalt	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Copper	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Iron	ND		91	mg/Kg	1	3/11/2016 01:57 PM
Lead	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Lithium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Magnesium	ND		91	mg/Kg	1	3/11/2016 01:57 PM
Manganese	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Molybdenum	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Nickel	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Phosphorus	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Platinum	ND		91	mg/Kg	1	3/11/2016 01:57 PM
Selenium	ND		2.7	mg/Kg	1	3/11/2016 01:57 PM
Silver	ND		0.91	mg/Kg	1	3/11/2016 01:57 PM
Sodium	ND		460	mg/Kg	1	3/11/2016 01:57 PM
Tellurium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Thallium	ND		2.7	mg/Kg	1	3/11/2016 01:57 PM
Tin	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Titanium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Tungsten	ND		91	mg/Kg	1	3/11/2016 01:57 PM
Vanadium	ND		4.6	mg/Kg	1	3/11/2016 01:57 PM
Yttrium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
Zinc	ND		55	mg/Kg	1	3/11/2016 01:57 PM
Zirconium	ND		9.1	mg/Kg	1	3/11/2016 01:57 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Bathtub 30 Min
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-02
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
1,4-Dichlorobenzene	**200**		**25**	**µg/Kg**	5	3/15/2016 03:13 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
2-Butanone	ND		25	µg/Kg	5	3/15/2016 03:13 PM
2-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
2-Hexanone	ND		25	µg/Kg	5	3/15/2016 03:13 PM
4-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Acetone	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Benzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Bromobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Bromochloromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Bromodichloromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Bromoform	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Bromomethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Carbon disulfide	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Carbon tetrachloride	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Chlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Chloroethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Chloroform	**50**		**25**	**µg/Kg**	5	3/15/2016 03:13 PM
Chloromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Dibromochloromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Dibromomethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Ethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Bathtub 30 Min
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-02
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Isopropylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
m,p-Xylene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Methylene chloride	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Naphthalene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
n-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
n-Propylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
o-Xylene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
sec-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Styrene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
tert-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Tetrachloroethene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Toluene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Trichloroethene	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Vinyl chloride	ND		25	µg/Kg	5	3/15/2016 03:13 PM
Xylenes, Total	ND		50	µg/Kg	5	3/15/2016 03:13 PM
Surr: 4-Bromofluorobenzene	*128*		*62.7-159*	*%REC*	5	3/15/2016 03:13 PM
Surr: Dibromofluoromethane	*99.5*		*67.3-136*	*%REC*	5	3/15/2016 03:13 PM
Surr: Toluene-d8	*87.9*		*83-124*	*%REC*	5	3/15/2016 03:13 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Work Order: 1603337
Sample ID: WaterBug Bathroom Sink 30 Min
Lab ID: 1603337-03
Collection Date: 3/6/2016 11:00 AM
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471A**		Prep Date: **3/11/2016**	Analyst: **VAW**
Mercury	ND		0.30	mg/Kg	1	3/11/2016
METALS BY ICP			**SW6010B**		Prep Date: **3/10/2016**	Analyst: **SRL**
Aluminum	ND		490	mg/Kg	1	3/11/2016 02:00 PM
Arsenic	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Barium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Beryllium	ND		0.49	mg/Kg	1	3/11/2016 02:00 PM
Cadmium	ND		0.99	mg/Kg	1	3/11/2016 02:00 PM
Calcium	ND		4,700	mg/Kg	1	3/11/2016 02:00 PM
Chromium	ND		2.0	mg/Kg	1	3/11/2016 02:00 PM
Cobalt	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Copper	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Iron	ND		99	mg/Kg	1	3/11/2016 02:00 PM
Lead	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Lithium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Magnesium	ND		390	mg/Kg	1	3/11/2016 02:00 PM
Manganese	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Molybdenum	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Nickel	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Phosphorus	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Platinum	ND		99	mg/Kg	1	3/11/2016 02:00 PM
Selenium	ND		3.0	mg/Kg	1	3/11/2016 02:00 PM
Silver	ND		0.99	mg/Kg	1	3/11/2016 02:00 PM
Sodium	ND		490	mg/Kg	1	3/11/2016 02:00 PM
Tellurium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Thallium	ND		3.0	mg/Kg	1	3/11/2016 02:00 PM
Tin	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Titanium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Tungsten	ND		99	mg/Kg	1	3/11/2016 02:00 PM
Vanadium	ND		4.9	mg/Kg	1	3/11/2016 02:00 PM
Yttrium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
Zinc	ND		59	mg/Kg	1	3/11/2016 02:00 PM
Zirconium	ND		9.9	mg/Kg	1	3/11/2016 02:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Work Order: 1603337
Sample ID: WaterBug Bathroom Sink 30 Min
Lab ID: 1603337-03
Collection Date: 3/6/2016 11:00 AM
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
1,4-Dichlorobenzene	**120**		**25**	**µg/Kg**	5	3/15/2016 03:44 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
2-Butanone	ND		25	µg/Kg	5	3/15/2016 03:44 PM
2-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
2-Hexanone	ND		25	µg/Kg	5	3/15/2016 03:44 PM
4-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Acetone	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Benzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Bromobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Bromochloromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Bromodichloromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Bromoform	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Bromomethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Carbon disulfide	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Carbon tetrachloride	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Chlorobenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Chloroethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Chloroform	**55**		**25**	**µg/Kg**	5	3/15/2016 03:44 PM
Chloromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Dibromochloromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Dibromomethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Ethylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: WaterBug Bathroom Sink 30 Min
Collection Date: 3/6/2016 11:00 AM

Work Order: 1603337
Lab ID: 1603337-03
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Isopropylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
m,p-Xylene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Methylene chloride	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Naphthalene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
n-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
n-Propylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
o-Xylene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
sec-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Styrene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
tert-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Tetrachloroethene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Toluene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Trichloroethene	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Vinyl chloride	ND		25	µg/Kg	5	3/15/2016 03:44 PM
Xylenes, Total	ND		50	µg/Kg	5	3/15/2016 03:44 PM
Surr: 4-Bromofluorobenzene	*145*		*62.7-159*	*%REC*	5	3/15/2016 03:44 PM
Surr: Dibromofluoromethane	*104*		*67.3-136*	*%REC*	5	3/15/2016 03:44 PM
Surr: Toluene-d8	*91.7*		*83-124*	*%REC*	5	3/15/2016 03:44 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **3/11/2016**	Analyst: **VAW**
Mercury	ND		0.50	µg/L	1	3/11/2016
METALS BY ICP			**SW6010B**		Prep Date: **3/11/2016**	Analyst: **SRL**
Aluminum	**0.26**		**0.20**	**mg/L**	1	3/11/2016 02:39 PM
Arsenic	ND		0.010	mg/L	1	3/11/2016 02:39 PM
Barium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Beryllium	ND		0.0040	mg/L	1	3/11/2016 02:39 PM
Cadmium	ND		0.0050	mg/L	1	3/11/2016 02:39 PM
Calcium	**29**		**0.20**	**mg/L**	1	3/11/2016 02:39 PM
Chromium	ND		0.020	mg/L	1	3/11/2016 02:39 PM
Cobalt	ND		0.050	mg/L	1	3/11/2016 02:39 PM
Copper	ND		0.025	mg/L	1	3/11/2016 02:39 PM
Iron	ND		0.20	mg/L	1	3/11/2016 02:39 PM
Lead	ND		0.015	mg/L	1	3/11/2016 02:39 PM
Lithium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Magnesium	**8.0**		**0.20**	**mg/L**	1	3/11/2016 02:39 PM
Manganese	ND		0.050	mg/L	1	3/11/2016 02:39 PM
Molybdenum	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Nickel	ND		0.040	mg/L	1	3/11/2016 02:39 PM
Phosphorus	**1.2**		**0.10**	**mg/L**	1	3/11/2016 02:39 PM
Platinum	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Selenium	ND		0.030	mg/L	1	3/11/2016 02:39 PM
Silver	ND		0.010	mg/L	1	3/11/2016 02:39 PM
Sodium	**4.6**		**0.20**	**mg/L**	1	3/11/2016 02:39 PM
Tellurium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Thallium	ND		0.0020	mg/L	1	3/11/2016 02:39 PM
Tin	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Titanium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Tungsten	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Vanadium	ND		0.050	mg/L	1	3/11/2016 02:39 PM
Yttrium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
Zinc	ND		0.050	mg/L	1	3/11/2016 02:39 PM
Zirconium	ND		0.10	mg/L	1	3/11/2016 02:39 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
2-Butanone	ND		5.0	µg/L	1	3/14/2016 01:51 PM
2-Chlorotoluene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
2-Hexanone	ND		5.0	µg/L	1	3/14/2016 01:51 PM
4-Chlorotoluene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Acetone	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Benzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Bromobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Bromochloromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Bromodichloromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Bromoform	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Bromomethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Carbon disulfide	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Carbon tetrachloride	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Chlorobenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Chloroethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Chloroform	**7.8**		**5.0**	**µg/L**	1	3/14/2016 01:51 PM
Chloromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Dibromochloromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Dibromomethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Ethylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Grab Sample Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Isopropylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
m,p-Xylene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Methylene chloride	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Naphthalene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
n-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
n-Propylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
o-Xylene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
sec-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Styrene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
tert-Butylbenzene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Tetrachloroethene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Toluene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Trichloroethene	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	3/14/2016 01:51 PM
Vinyl chloride	ND		2.0	µg/L	1	3/14/2016 01:51 PM
Xylenes, Total	ND		10	µg/L	1	3/14/2016 01:51 PM
Surr: 4-Bromofluorobenzene	*90.4*		*61-131*	*%REC*	1	3/14/2016 01:51 PM
Surr: Dibromofluoromethane	*99.3*		*87-126*	*%REC*	1	3/14/2016 01:51 PM
Surr: Toluene-d8	*95.9*		*84-111*	*%REC*	1	3/14/2016 01:51 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-05
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471A**		Prep Date: **3/11/2016**	Analyst: **VAW**
Mercury	ND		0.30	mg/Kg	1	3/11/2016
METALS BY ICP			**SW6010B**		Prep Date: **3/10/2016**	Analyst: **SRL**
Aluminum	ND		450	mg/Kg	1	3/11/2016 02:03 PM
Arsenic	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Barium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Beryllium	ND		0.45	mg/Kg	1	3/11/2016 02:03 PM
Cadmium	ND		0.90	mg/Kg	1	3/11/2016 02:03 PM
Calcium	ND		4,300	mg/Kg	1	3/11/2016 02:03 PM
Chromium	ND		1.8	mg/Kg	1	3/11/2016 02:03 PM
Cobalt	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Copper	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Iron	ND		90	mg/Kg	1	3/11/2016 02:03 PM
Lead	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Lithium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Magnesium	ND		90	mg/Kg	1	3/11/2016 02:03 PM
Manganese	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Molybdenum	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Nickel	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Phosphorus	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Platinum	ND		90	mg/Kg	1	3/11/2016 02:03 PM
Selenium	ND		2.7	mg/Kg	1	3/11/2016 02:03 PM
Silver	ND		0.90	mg/Kg	1	3/11/2016 02:03 PM
Sodium	ND		450	mg/Kg	1	3/11/2016 02:03 PM
Tellurium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Thallium	ND		2.7	mg/Kg	1	3/11/2016 02:03 PM
Tin	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Titanium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Tungsten	ND		90	mg/Kg	1	3/11/2016 02:03 PM
Vanadium	ND		4.5	mg/Kg	1	3/11/2016 02:03 PM
Yttrium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
Zinc	ND		54	mg/Kg	1	3/11/2016 02:03 PM
Zirconium	ND		9.0	mg/Kg	1	3/11/2016 02:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-05
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
1,4-Dichlorobenzene	**370**		**25**	**µg/Kg**	5	3/15/2016 04:15 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
2-Butanone	ND		25	µg/Kg	5	3/15/2016 04:15 PM
2-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
2-Hexanone	ND		25	µg/Kg	5	3/15/2016 04:15 PM
4-Chlorotoluene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Acetone	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Benzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Bromobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Bromochloromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Bromodichloromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Bromoform	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Bromomethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Carbon disulfide	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Carbon tetrachloride	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Chlorobenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Chloroethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Chloroform	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Chloromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Dibromochloromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Dibromomethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Ethylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Sample ID: Waterbug Water Heater
Collection Date: 3/6/2016 10:45 AM

Work Order: 1603337
Lab ID: 1603337-05
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Isopropylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
m,p-Xylene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Methylene chloride	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Naphthalene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
n-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
n-Propylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
o-Xylene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
sec-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Styrene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
tert-Butylbenzene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Tetrachloroethene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Toluene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Trichloroethene	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Vinyl chloride	ND		25	µg/Kg	5	3/15/2016 04:15 PM
Xylenes, Total	ND		50	µg/Kg	5	3/15/2016 04:15 PM
Surr: 4-Bromofluorobenzene	*135*		*62.7-159*	*%REC*	5	3/15/2016 04:15 PM
Surr: Dibromofluoromethane	*106*		*67.3-136*	*%REC*	5	3/15/2016 04:15 PM
Surr: Toluene-d8	*90.3*		*83-124*	*%REC*	5	3/15/2016 04:15 PM

Note:

ALS Environmental

Date: *16-Mar-16*

Client: Water Defense
Project: Melissa Mays
Work Order: 1603337

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch **R126910**					
	Analysis	1603337-02A	1242045	Volatile Organic Compounds	Internal Standard was outside QA/QC limits due to matrix.
	Analysis	1603337-03A	1242046	Volatile Organic Compounds	Internal Standard was outside QA/QC limits due to matrix.
	Analysis	1603337-05A	1242047	Volatile Organic Compounds	Internal Standard was outside QA/QC limits due to matrix.

ALS Environmental

Date: 16-Mar-16

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34390** Instrument ID: **HG1** Method: **SW7471A**

MBLK Sample ID: **mblk-34390-34390** Units: **mg/Kg** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311A** SeqNo: **1239806** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.29								

LCS Sample ID: **lcs-34390-34390** Units: **mg/Kg** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311A** SeqNo: **1239807** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.6378	0.30	0.8262	0	77.2	69-147	0			

LCSD Sample ID: **lcsd-34390-34390** Units: **mg/Kg** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311A** SeqNo: **1239810** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7659	0.30	0.8218	0	93.2	69-147	0.6378	18.3	20	

MS Sample ID: **1603326-02a ms** Units: **mg/Kg** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311A** SeqNo: **1239812** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.7542	0.30	0.8306	0	90.8	69-147	0			

MSD Sample ID: **1603326-02a msd** Units: **mg/Kg** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311A** SeqNo: **1239813** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.667	0.30	0.8235	0	81	69-147	0.7542	12.3	20	

The following samples were analyzed in this batch: 1603337-02A 1603337-03A 1603337-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34392** Instrument ID: **HG1** Method: **SW7470A**

MBLK Sample ID: **mblk-34392-34392** Units: **µg/L** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311B** SeqNo: **1240044** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS Sample ID: **lcs-34392-34392** Units: **µg/L** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311B** SeqNo: **1240045** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.55	0.50	5	0	91	80-120	0			

LCSD Sample ID: **lcsd-34392-34392** Units: **µg/L** Analysis Date: **3/11/2016**
Client ID: Run ID: **HG1_160311B** SeqNo: **1240046** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.64	0.50	5	0	92.8	80-120	4.55	1.96	20	

MS Sample ID: **1603337-04b ms** Units: **µg/L** Analysis Date: **3/11/2016**
Client ID: **Grab Sample Water Heater** Run ID: **HG1_160311B** SeqNo: **1240052** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.87	0.50	5	0	97.4	75-125	0			

MSD Sample ID: **1603337-04b msd** Units: **µg/L** Analysis Date: **3/11/2016**
Client ID: **Grab Sample Water Heater** Run ID: **HG1_160311B** SeqNo: **1240053** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.75	0.50	5	0	95	75-125	0			

The following samples were analyzed in this batch: 1603337-01B 1603337-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34363** Instrument ID: **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-34363-34363** Units: **mg/Kg** Analysis Date: **3/11/2016 01:24 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1239920** Prep Date: **3/10/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	4,800								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Lithium	ND	10								
Magnesium	ND	400								
Manganese	ND	5.0								
Molybdenum	ND	10								
Nickel	ND	5.0								
Phosphorus	ND	10								
Platinum	ND	100								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Tellurium	ND	10								
Thallium	ND	3.0								
Tin	ND	10								
Titanium	ND	10								
Tungsten	ND	100								
Vanadium	ND	5.0								
Yttrium	ND	10								
Zinc	ND	60								
Zirconium	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34363** Instrument ID: **ICP3** Method: **SW6010B**

LCS Sample ID: **lcs-34363-34363** Units: **mg/Kg** Analysis Date: **3/11/2016 01:27 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1239921** Prep Date: **3/10/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	199	0	119	80-120	0			
Arsenic	207	5.0	199	0	104	80-120	0			
Barium	198.4	10	199	0	99.7	80-120	0			
Beryllium	197.2	0.50	199	0	99.1	80-120	0			
Cadmium	207	1.0	199	0	104	80-120	0			
Calcium	5422	4,800	199	0	2720	80-120	0			S
Chromium	198.2	2.0	199	0	99.6	80-120	0			
Cobalt	190.5	5.0	199	0	95.7	80-120	0			
Copper	190.5	5.0	199	0	95.7	80-120	0			
Iron	230.1	100	199	0	116	80-120	0			
Lead	202.4	5.0	199	0	102	80-120	0			
Magnesium	618.2	400	199	0	311	80-120	0			S
Manganese	195.2	5.0	199	0	98.1	80-120	0			
Molybdenum	183.8	10	199	0	92.3	80-120	0			
Nickel	191.2	5.0	199	0	96.1	80-120	0			
Selenium	198.3	3.0	199	0	99.6	80-120	0			
Silver	183.2	1.0	199	0	92	80-120	0			
Sodium	ND	500	199	0	101	80-120	0			
Thallium	187.9	3.0	199	0	94.4	80-120	0			
Titanium	197.2	10	199	0	99.1	80-120	0			
Vanadium	191	5.0	199	0	95.9	80-120	0			
Zinc	ND	600	199	0	131	80-120	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34363** Instrument ID: **ICP3** Method: **SW6010B**

LCSD Sample ID: **lcsd-34363-34363** Units: **mg/Kg** Analysis Date: **3/11/2016 01:36 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1239922** Prep Date: **3/10/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	198.4	0	117	80-120	236.9	0	20	
Arsenic	209.9	5.0	198.4	0	106	80-120	207	1.4	20	
Barium	193.9	9.9	198.4	0	97.7	80-120	198.4	2.32	20	
Beryllium	199.8	0.50	198.4	0	101	80-120	197.2	1.32	20	
Cadmium	208.9	0.99	198.4	0	105	80-120	207	0.924	20	
Calcium	5339	4,800	198.4	0	2690	80-120	5422	1.54	20	S
Chromium	201.4	2.0	198.4	0	102	80-120	198.2	1.61	20	
Cobalt	192.3	5.0	198.4	0	96.9	80-120	190.5	0.918	20	
Copper	193	5.0	198.4	0	97.3	80-120	190.5	1.31	20	
Iron	231.3	99	198.4	0	117	80-120	230.1	0.543	20	
Lead	204.8	5.0	198.4	0	103	80-120	202.4	1.15	20	
Magnesium	617.3	400	198.4	0	311	80-120	618.2	0.157	20	S
Manganese	197.3	5.0	198.4	0	99.4	80-120	195.2	1.05	20	
Molybdenum	185.9	9.9	198.4	0	93.7	80-120	183.8	1.13	20	
Nickel	193.5	5.0	198.4	0	97.5	80-120	191.2	1.18	20	
Selenium	203.4	3.0	198.4	0	102	80-120	198.3	2.5	20	
Silver	178.5	0.99	198.4	0	90	80-120	183.2	2.58	20	
Sodium	ND	500	198.4	0	98.1	80-120	201.6	0	20	
Thallium	190.6	3.0	198.4	0	96.1	80-120	187.9	1.45	20	
Titanium	198.8	9.9	198.4	0	100	80-120	197.2	0.816	20	
Vanadium	195.1	5.0	198.4	0	98.3	80-120	191	2.15	20	
Zinc	258.7	60	198.4	0	130	80-120	260.5	0.701	20	S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34363** Instrument ID: **ICP3** Method: **SW6010B**

MS Sample ID: **1603326-04a ms** Units: **mg/Kg** Analysis Date: **3/11/2016 01:45 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1239925** Prep Date: **3/10/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	470	189	3.544	101	75-125	0			
Arsenic	194.5	4.7	189	-0.2664	103	75-125	0			
Barium	199.2	9.5	189	0.08906	105	75-125	0			
Beryllium	182.6	0.47	189	0.008588	96.6	75-125	0			
Cadmium	193.4	0.95	189	0.007655	102	75-125	0			
Calcium	ND	4,500	189	1459	-99.1	75-125	0			SO
Chromium	186.5	1.9	189	-0.03641	98.7	75-125	0			
Cobalt	180.4	4.7	189	-0.01886	95.5	75-125	0			
Copper	178.8	4.7	189	0.09335	94.5	75-125	0			
Iron	190.4	95	189	11.42	94.7	75-125	0			
Lead	192.2	4.7	189	0.1865	102	75-125	0			
Lithium	ND	9.5	189	-0.1962	0.104	75-125	0			S
Magnesium	ND	380	189	111.2	88.2	75-125	0			
Manganese	179.7	4.7	189	0.2028	95	75-125	0			
Molybdenum	174.2	9.5	189	0.1643	92.1	75-125	0			
Nickel	181.4	4.7	189	0.08962	95.9	75-125	0			
Selenium	191.1	2.8	189	0.007282	101	75-125	0			
Silver	182.5	0.95	189	-0.1088	96.6	75-125	0			
Sodium	ND	470	189	0.5457	97.3	75-125	0			
Thallium	181.2	2.8	189	-0.1387	95.9	75-125	0			
Titanium	182.7	9.5	189	-0.09914	96.7	75-125	0			
Vanadium	178	4.7	189	0.7646	93.7	75-125	0			
Zinc	197.7	57	189	14.93	96.7	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34363** Instrument ID: **ICP3** Method: **SW6010B**

MSD Sample ID: **1603326-04a msd** Units: **mg/Kg** Analysis Date: **3/11/2016 01:48 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1239926** Prep Date: **3/10/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	199.8	3.544	101	75-125	194.7	0	20	
Arsenic	206.2	5.0	199.8	-0.2664	103	75-125	194.5	5.85	20	
Barium	209.2	10	199.8	0.08906	105	75-125	199.2	4.89	20	
Beryllium	191	0.50	199.8	0.008588	95.6	75-125	182.6	4.52	20	
Cadmium	204	1.0	199.8	0.007655	102	75-125	193.4	5.36	20	
Calcium	ND	4,800	199.8	1459	17.5	75-125	1271	0	20	SO
Chromium	197.2	2.0	199.8	-0.03641	98.7	75-125	186.5	5.57	20	
Cobalt	190.7	5.0	199.8	-0.01886	95.4	75-125	180.4	5.55	20	
Copper	188.9	5.0	199.8	0.09335	94.5	75-125	178.8	5.48	20	
Iron	199.4	100	199.8	11.42	94	75-125	190.4	4.62	20	
Lead	201.8	5.0	199.8	0.1865	101	75-125	192.2	4.87	20	
Magnesium	ND	400	199.8	111.2	96.2	75-125	277.9	0	20	
Manganese	187.9	5.0	199.8	0.2028	93.9	75-125	179.7	4.47	20	
Molybdenum	185	10	199.8	0.1643	92.5	75-125	174.2	5.99	20	
Nickel	190.4	5.0	199.8	0.08962	95.2	75-125	181.4	4.88	20	
Selenium	200.2	3.0	199.8	0.007282	100	75-125	191.1	4.66	20	
Silver	193.1	1.0	199.8	-0.1088	96.7	75-125	182.5	5.66	20	
Sodium	ND	500	199.8	0.5457	96	75-125	184.5	0	20	
Thallium	191.3	3.0	199.8	-0.1387	95.8	75-125	181.2	5.4	20	
Titanium	191.5	10	199.8	-0.09914	95.9	75-125	182.7	4.74	20	
Vanadium	187.4	5.0	199.8	0.7646	93.4	75-125	178	5.14	20	
Zinc	208.2	60	199.8	14.93	96.7	75-125	197.7	5.17	20	

The following samples were analyzed in this batch: 1603337-02a 1603337-03a 1603337-05a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34391** Instrument ID: **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-34391-34391** Units: **mg/L** Analysis Date: **3/11/2016 02:12 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1240015** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Lithium	ND	0.10								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Molybdenum	ND	0.10								
Nickel	ND	0.050								
Phosphorus	ND	0.10								
Platinum	ND	0.10								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Tellurium	ND	0.10								
Thallium	ND	0.0020								
Tin	ND	0.10								
Titanium	ND	0.10								
Tungsten	ND	0.10								
Vanadium	ND	0.050								
Yttrium	ND	0.10								
Zinc	ND	0.050								
Zirconium	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34391** Instrument ID: **ICP3** Method: **SW6010B**

LCS Sample ID: **lcs-34391-34391** Units: **mg/L** Analysis Date: **3/11/2016 02:16 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1240016** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.019	0.20	1.1	0	92.6	87.9-120	0			
Arsenic	1.128	0.010	1.1	0	102	80-120	0			
Barium	1.148	0.10	1.1	0	104	80-120	0			
Beryllium	1.064	0.00040	1.1	0	96.7	80-120	0			
Cadmium	1.12	0.0050	1.1	0	102	80-120	0			
Calcium	1.099	0.20	1.1	0	99.9	80.3-122	0			
Chromium	1.095	0.020	1.1	0	99.6	80-120	0			
Cobalt	1.058	0.025	1.1	0	96.2	80-120	0			
Copper	1.051	0.025	1.1	0	95.5	80-120	0			
Lead	1.118	0.015	1.1	0	102	80-120	0			
Magnesium	1.112	0.20	1.1	0	101	80-120	0			
Manganese	1.058	0.050	1.1	0	96.2	80-120	0			
Molybdenum	1.026	0.10	1.1	0	93.3	80-120	0			
Nickel	1.061	0.050	1.1	0	96.4	80-120	0			
Selenium	1.099	0.030	1.1	0	100	80-120	0			
Silver	1.061	0.010	1.1	0	96.5	80-120	0			
Sodium	1.032	0.20	1.1	0	93.8	80-120	0			
Thallium	1.058	0.0020	1.1	0	96.2	80-120	0			
Titanium	1.075	0.10	1.1	0	97.8	80-120	0			
Vanadium	1.05	0.050	1.1	0	95.4	80-120	0			
Zinc	1.081	0.050	1.1	0	98.3	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34391** Instrument ID: **ICP3** Method: **SW6010B**

LCSD Sample ID: **lcsd-34391-34391** Units: **mg/L** Analysis Date: **3/11/2016 02:18 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1240017** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.078	0.20	1.1	0	98	87.9-120	1.019	5.64	20	
Arsenic	1.125	0.010	1.1	0	102	80-120	1.128	0.195	20	
Barium	1.147	0.10	1.1	0	104	80-120	1.148	0.0958	20	
Beryllium	1.072	0.00040	1.1	0	97.4	80-120	1.064	0.711	20	
Cadmium	1.119	0.0050	1.1	0	102	80-120	1.12	0.0983	20	
Calcium	1.006	0.20	1.1	0	91.4	80.3-122	1.099	8.82	20	
Chromium	1.098	0.020	1.1	0	99.9	80-120	1.095	0.311	20	
Cobalt	1.057	0.025	1.1	0	96.1	80-120	1.058	0.125	20	
Copper	1.052	0.025	1.1	0	95.7	80-120	1.051	0.167	20	
Iron	1.069	0.20	1.1	0	97.2	80-120	1.073	0.37	20	
Lead	1.116	0.015	1.1	0	102	80-120	1.118	0.0985	20	
Magnesium	1.103	0.20	1.1	0	100	80-120	1.112	0.794	20	
Manganese	1.064	0.050	1.1	0	96.7	80-120	1.058	0.539	20	
Molybdenum	1.029	0.10	1.1	0	93.6	80-120	1.026	0.278	20	
Nickel	1.057	0.050	1.1	0	96.1	80-120	1.061	0.312	20	
Selenium	1.107	0.030	1.1	0	101	80-120	1.099	0.648	20	
Silver	1.059	0.010	1.1	0	96.3	80-120	1.061	0.197	20	
Sodium	1.028	0.20	1.1	0	93.5	80-120	1.032	0.406	20	
Thallium	1.06	0.0020	1.1	0	96.4	80-120	1.058	0.208	20	
Titanium	1.079	0.10	1.1	0	98.1	80-120	1.075	0.306	20	
Vanadium	1.06	0.050	1.1	0	96.4	80-120	1.05	0.98	20	
Zinc	1.073	0.050	1.1	0	97.6	80-120	1.081	0.694	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34391** Instrument ID: **ICP3** Method: **SW6010B**

MS Sample ID: **1603326-01b ms** Units: **mg/L** Analysis Date: **3/11/2016 02:24 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1240020** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.313	0.20	1.1	0.2267	98.8	75-125	0			
Arsenic	1.159	0.010	1.1	0.001622	105	75-125	0			
Barium	1.159	0.10	1.1	0.01791	104	75-125	0			
Beryllium	1.096	0.00040	1.1	0.0000814	99.7	75-125	0			
Cadmium	1.121	0.0050	1.1	-0.0001309	102	75-125	0			
Calcium	26.94	0.20	1.1	26.28	60	75-125	0			SO
Chromium	1.096	0.020	1.1	0.0005335	99.6	75-125	0			
Cobalt	1.037	0.025	1.1	-0.0006116	94.3	75-125	0			
Copper	1.162	0.025	1.1	0.1437	92.5	75-125	0			
Iron	1.11	0.20	1.1	0.03086	98.1	75-125	0			
Lead	1.108	0.015	1.1	0.004267	100	75-125	0			
Magnesium	8.867	0.20	1.1	7.953	83.1	75-125	0			O
Manganese	1.061	0.050	1.1	0.002002	96.2	75-125	0			
Molybdenum	1.036	0.10	1.1	0.001569	94.1	75-125	0			
Nickel	1.046	0.050	1.1	0.0009724	95	75-125	0			
Selenium	1.126	0.030	1.1	0.0006171	102	75-125	0			
Silver	1.036	0.010	1.1	-0.0009284	94.2	75-125	0			
Sodium	5.662	0.20	1.1	4.687	88.6	75-125	0			O
Thallium	1.033	0.0020	1.1	0.001417	93.8	75-125	0			
Titanium	1.098	0.10	1.1	-0.001631	100	75-125	0			
Vanadium	1.076	0.050	1.1	0.004326	97.4	75-125	0			
Zinc	1.097	0.050	1.1	0.01837	98	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **34391** Instrument ID: **ICP3** Method: **SW6010B**

MSD Sample ID: **1603326-01b msd** Units: **mg/L** Analysis Date: **3/11/2016 02:27 PM**
Client ID: Run ID: **ICP3_160311C** SeqNo: **1240022** Prep Date: **3/11/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.324	0.20	1.1	0.2267	99.8	75-125	1.313	0.834	20	
Arsenic	1.177	0.010	1.1	0.001622	107	75-125	1.159	1.51	20	
Barium	1.167	0.10	1.1	0.01791	104	75-125	1.159	0.662	20	
Beryllium	1.113	0.00040	1.1	0.0000814	101	75-125	1.096	1.51	20	
Cadmium	1.134	0.0050	1.1	-0.0001309	103	75-125	1.121	1.17	20	
Calcium	27.3	0.20	1.1	26.28	93	75-125	26.94	1.34	20	O
Chromium	1.11	0.020	1.1	0.0005335	101	75-125	1.096	1.28	20	
Cobalt	1.05	0.025	1.1	-0.0006116	95.5	75-125	1.037	1.23	20	
Copper	1.174	0.025	1.1	0.1437	93.6	75-125	1.162	1.04	20	
Iron	1.134	0.20	1.1	0.03086	100	75-125	1.11	2.16	20	
Lead	1.12	0.015	1.1	0.004267	101	75-125	1.108	1.09	20	
Magnesium	9.023	0.20	1.1	7.953	97.3	75-125	8.867	1.75	20	O
Manganese	1.08	0.050	1.1	0.002002	98	75-125	1.061	1.8	20	
Molybdenum	1.049	0.10	1.1	0.001569	95.3	75-125	1.036	1.27	20	
Nickel	1.056	0.050	1.1	0.0009724	95.9	75-125	1.046	0.942	20	
Selenium	1.138	0.030	1.1	0.0006171	103	75-125	1.126	1.07	20	
Silver	1.045	0.010	1.1	-0.0009284	95.1	75-125	1.036	0.888	20	
Sodium	5.722	0.20	1.1	4.687	94.1	75-125	5.662	1.06	20	O
Thallium	1.043	0.0020	1.1	0.001417	94.7	75-125	1.033	0.89	20	
Titanium	1.115	0.10	1.1	-0.001631	102	75-125	1.098	1.57	20	
Vanadium	1.088	0.050	1.1	0.004326	98.5	75-125	1.076	1.13	20	
Zinc	1.116	0.050	1.1	0.01837	99.8	75-125	1.097	1.77	20	

The following samples were analyzed in this batch: 1603337-01b 1603337-04b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126857** Instrument ID: **VMS1** Method: **SW8260B**

MBLK Sample ID: **MBLK-R126857** Units: **µg/L** Analysis Date: **3/14/2016 10:04 AM**
Client ID: Run ID: **VMS1_160314A** SeqNo: **1240974** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R126857** Instrument ID: **VMS1** Method: **SW8260B**

Dibromomethane	ND	5.0							
Dichlorodifluoromethane	ND	5.0							
Ethylbenzene	ND	5.0							
Hexachlorobutadiene	ND	5.0							
Isopropylbenzene	ND	5.0							
m,p-Xylene	ND	5.0							
Methyl tert-butyl ether	ND	5.0							
Methylene chloride	ND	5.0							
Naphthalene	ND	5.0							
n-Butylbenzene	ND	5.0							
n-Propylbenzene	ND	5.0							
o-Xylene	ND	5.0							
p-Isopropyltoluene	ND	5.0							
sec-Butylbenzene	ND	5.0							
Styrene	ND	5.0							
tert-Butylbenzene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,2-Dichloroethene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Trichlorofluoromethane	ND	5.0							
Vinyl chloride	ND	2.0							
Xylenes, Total	ND	10							
Surr: 4-Bromofluorobenzene	41.39	0	*50*	0	*82.8*	*61-131*	0		
Surr: Dibromofluoromethane	47.25	0	*50*	0	*94.5*	*87-126*	0		
Surr: Toluene-d8	46.34	0	*50*	0	*92.7*	*84-111*	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126857** Instrument ID: **VMS1** Method: **SW8260B**

LCS Sample ID: **LCS-R126857** Units: **µg/L** Analysis Date: **3/14/2016 10:35 AM**
Client ID: Run ID: **VMS1_160314A** SeqNo: **1240975** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.93	5.0	50	0	91.9	48.4-140	0			
1,1-Dichloroethene	38.56	5.0	50	0	77.1	45.5-150	0			
1,2-Dichloroethane	43.32	5.0	50	0	86.6	46.5-141	0			
1,3-Dichlorobenzene	39.1	5.0	50	0	78.2	42.5-133	0			
1,4-Dichlorobenzene	38.73	5.0	50	0	77.5	38.9-136	0			
Benzene	43.03	5.0	50	0	86.1	50.7-134	0			
Carbon tetrachloride	47.41	5.0	50	0	94.8	45.5-143	0			
Chlorobenzene	42.59	5.0	50	0	85.2	45-133	0			
Chloroform	45.91	5.0	50	0	91.8	52.4-136	0			
cis-1,2-Dichloroethene	42.88	5.0	50	0	85.8	49.7-138	0			
Ethylbenzene	41.46	5.0	50	0	82.9	37.8-145	0			
m,p-Xylene	82.98	5.0	100	0	83	25.1-163	0			
Methyl tert-butyl ether	41.11	5.0	50	0	82.2	26.7-174	0			
Styrene	41.77	5.0	50	0	83.5	26.3-172	0			
Tetrachloroethene	45.64	5.0	50	0	91.3	37.3-139	0			
Toluene	43.13	5.0	50	0	86.3	44-135	0			
Trichloroethene	45.89	5.0	50	0	91.8	45.9-140	0			
Xylenes, Total	122.2	10	150	0	81.5	47.3-132	0			
Surr: 4-Bromofluorobenzene	44.42	0	*50*	0	*88.8*	*61-131*	0			
Surr: Dibromofluoromethane	46.52	0	*50*	0	*93*	*87-126*	0			
Surr: Toluene-d8	47.51	0	*50*	0	*95*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126857** Instrument ID: **VMS1** Method: **SW8260B**

MS Sample ID: **1603333-15A MS** Units: **µg/L** Analysis Date: **3/14/2016 11:07 AM**
Client ID: Run ID: **VMS1_160314A** SeqNo: **1240976** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.84	5.0	50	0	102	40.4-134	0			
1,1-Dichloroethene	42.13	5.0	50	0	84.3	45.3-151	0			
1,2-Dichloroethane	47.92	5.0	50	0	95.8	37-139	0			
1,3-Dichlorobenzene	41.84	5.0	50	0	83.7	42.9-121	0			
1,4-Dichlorobenzene	42.21	5.0	50	0	84.4	53.4-129	0			
Benzene	47.64	5.0	50	0	95.3	37.4-144	0			
Carbon tetrachloride	53.02	5.0	50	0	106	33.8-150	0			
Chlorobenzene	45.63	5.0	50	0	91.3	52.4-132	0			
Chloroform	50.2	5.0	50	0	100	45.5-135	0			
cis-1,2-Dichloroethene	47.47	5.0	50	0	94.9	35.2-150	0			
Ethylbenzene	44.77	5.0	50	0	89.5	46.5-146	0			
m,p-Xylene	88.32	5.0	100	0	88.3	38.2-167	0			
Styrene	40.48	5.0	50	0	81	20.9-184	0			
Tetrachloroethene	49.25	5.0	50	0	98.5	55.2-134	0			
Toluene	48.62	5.0	50	0	97.2	32.7-140	0			
Trichloroethene	51.51	5.0	50	0	103	29.1-153	0			
Surr: 4-Bromofluorobenzene	46.52	0	*50*	0	*93*	*61-131*	0			
Surr: Dibromofluoromethane	47.4	0	*50*	0	*94.8*	*87-126*	0			
Surr: Toluene-d8	49.07	0	*50*	0	*98.1*	*84-111*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126857** Instrument ID: **VMS1** Method: **SW8260B**

MSD Sample ID: **1603333-15A MSD** Units: **µg/L** Analysis Date: **3/14/2016 11:39 AM**
Client ID: Run ID: **VMS1_160314A** SeqNo: **1240977** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.53	5.0	50	0	101	40.4-134	50.84	0.612	20	
1,1-Dichloroethene	41.37	5.0	50	0	82.7	45.3-151	42.13	1.82	20	
1,2-Dichloroethane	46.37	5.0	50	0	92.7	37-139	47.92	3.29	20	
1,3-Dichlorobenzene	44.01	5.0	50	0	88	42.9-121	41.84	5.06	20	
1,4-Dichlorobenzene	44.09	5.0	50	0	88.2	53.4-129	42.21	4.36	20	
Benzene	46.73	5.0	50	0	93.5	37.4-144	47.64	1.93	20	
Carbon tetrachloride	52.2	5.0	50	0	104	33.8-150	53.02	1.56	20	
Chlorobenzene	47.35	5.0	50	0	94.7	52.4-132	45.63	3.7	20	
Chloroform	49.26	5.0	50	0	98.5	45.5-135	50.2	1.89	20	
cis-1,2-Dichloroethene	47.14	5.0	50	0	94.3	35.2-150	47.47	0.698	21	
Ethylbenzene	46.81	5.0	50	0	93.6	46.5-146	44.77	4.46	20	
m,p-Xylene	92	5.0	100	0	92	38.2-167	88.32	4.08	20	
Styrene	40.43	5.0	50	0	80.9	20.9-184	40.48	0.124	20	
Tetrachloroethene	50.8	5.0	50	0	102	55.2-134	49.25	3.1	20	
Toluene	49.01	5.0	50	0	98	32.7-140	48.62	0.799	20	
Trichloroethene	51.56	5.0	50	0	103	29.1-153	51.51	0.097	20	
Surr: 4-Bromofluorobenzene	40.74	0	*50*	0	*81.5*	*61-131*	46.52	*13.2*		
Surr: Dibromofluoromethane	47.87	0	*50*	0	*95.7*	*87-126*	47.4	*0.987*		
Surr: Toluene-d8	48.11	0	*50*	0	*96.2*	*84-111*	49.07	*1.98*		

The following samples were analyzed in this batch: 1603337-01A 1603337-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126910** Instrument ID: **VMS2** Method: **SW8260B**

MBLK Sample ID: **MBLK-R126910** Units: **µg/Kg** Analysis Date: **3/15/2016 02:43 PM**
Client ID: Run ID: **VMS2_160315A** SeqNo: **1242044** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R126910** Instrument ID: **VMS2** Method: **SW8260B**

Dibromomethane	ND	5.0							
Dichlorodifluoromethane	ND	5.0							
Ethylbenzene	ND	5.0							
Hexachlorobutadiene	ND	5.0							
Isopropylbenzene	ND	5.0							
m,p-Xylene	ND	5.0							
Methyl tert-butyl ether	ND	5.0							
Methylene chloride	ND	5.0							
Naphthalene	ND	5.0							
n-Butylbenzene	ND	5.0							
n-Propylbenzene	ND	5.0							
o-Xylene	ND	5.0							
p-Isopropyltoluene	ND	5.0							
sec-Butylbenzene	ND	5.0							
Styrene	ND	5.0							
tert-Butylbenzene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,2-Dichloroethene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Trichlorofluoromethane	ND	5.0							
Vinyl chloride	ND	5.0							
Xylenes, Total	ND	10							
Surr: 4-Bromofluorobenzene	54.55	0	*50*	0	*109*	*62.7-159*	0		
Surr: Dibromofluoromethane	47.92	0	*50*	0	*95.8*	*67.3-136*	0		
Surr: Toluene-d8	46.82	0	*50*	0	*93.6*	*83-124*	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Water Defense
Work Order: 1603337
Project: Melissa Mays

QC BATCH REPORT

Batch ID: **R126910** Instrument ID: **VMS2** Method: **SW8260B**

LCS Sample ID: **LCS-R126910** Units: **µg/Kg** Analysis Date: **3/15/2016 02:13 PM**
Client ID: Run ID: **VMS2_160315A** SeqNo: **1242043** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.68	5.0	50	0	93.4	70-132	0			
1,1-Dichloroethene	44.73	5.0	50	0	89.5	61.2-140	0			
1,2-Dichloroethane	48.11	5.0	50	0	96.2	67.3-139	0			
1,3-Dichlorobenzene	36.54	5.0	50	0	73.1	67.5-126	0			
1,4-Dichlorobenzene	35.96	5.0	50	0	71.9	69.5-124	0			
Benzene	46.25	5.0	50	0	92.5	67.2-135	0			
Carbon tetrachloride	43.08	5.0	50	0	86.2	68.6-138	0			
Chlorobenzene	40.64	5.0	50	0	81.3	66.4-133	0			
Chloroform	44.95	5.0	50	0	89.9	68.2-127	0			
cis-1,2-Dichloroethene	43.77	5.0	50	0	87.5	62.1-135	0			
Ethylbenzene	42.04	5.0	50	0	84.1	67.8-132	0			
m,p-Xylene	79.86	5.0	100	0	79.9	66.4-132	0			
Styrene	33.8	5.0	50	0	67.6	67.6-134	0			
Tetrachloroethene	46.77	5.0	50	0	93.5	70.3-144	0			
Toluene	39.61	5.0	50	0	79.2	67.8-130	0			
Trichloroethene	43.53	5.0	50	0	87.1	68.5-136	0			
Surr: 4-Bromofluorobenzene	68.82	0	*50*	0	*138*	*62.7-159*	0			
Surr: Dibromofluoromethane	50.15	0	*50*	0	*100*	*67.3-136*	0			
Surr: Toluene-d8	47.99	0	*50*	0	*96*	*83-124*	0			

The following samples were analyzed in this batch: 1603337-02A 1603337-03A 1603337-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 16-Mar-16

Client: Water Defense
Project: Melissa Mays
WorkOrder: **1603337**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/Kg	
µg/L	
mg/Kg	
mg/L	

ALS Environmental

Sample Receipt Checklist

Client Name: **WATERDEFENSE-HURLEYVUL** Date/Time Received: **10-Mar-16 00:00**

Work Order: **1603337** Received by: **JNW**

Checklist completed by: Rob Nieman (eSignature) 11-Mar-16 (Date) Reviewed by: Rob Nieman (eSignature) 11-Mar-16 (Date)

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☐	No ☑	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	17.2		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:	-		

Login Notes: No paperwork received with samples.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: