05-May-2016

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

Tel: (508) 345-6520
Fax:

Re: Flint Ex. 6 - Personal Privacy House Work Order: **1604888**

Dear Scott,

ALS Environmental received 2 samples on 26-Apr-2016 02:50 PM 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 22.

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: 05-May-16

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Work Order: **1604888**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1604888-01	1- Ex. 6 - Personal Privacy Shower	Water		2/4/2016	4/26/2016 14:50	☐
1604888-02	2- Ex. 6 - Personal Privacy Laundry Room Basement	Water		4/11/2016	4/26/2016 14:50	☐

ALS Environmental *Date: 05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Work Order: 1604888

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: *05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 1- Ex. 6 - Personal Privacy Shower
Collection Date: 2/4/2016

Work Order: 1604888
Lab ID: 1604888-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **4/28/2016**	Analyst: **VAW**
Mercury	ND	H	2.0	µg/L	1	4/28/2016
METALS BY ICP			**SW6010B**		Prep Date: **4/28/2016**	Analyst: **SRL**
Aluminum	ND		0.80	mg/L	1	4/28/2016 02:29 PM
Arsenic	ND		0.040	mg/L	1	4/28/2016 02:29 PM
Barium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Beryllium	ND		0.016	mg/L	1	4/28/2016 02:29 PM
Cadmium	ND		0.020	mg/L	1	4/28/2016 02:29 PM
Calcium	**29**		**0.80**	**mg/L**	1	4/28/2016 02:29 PM
Chromium	ND		0.080	mg/L	1	4/28/2016 02:29 PM
Cobalt	ND		0.20	mg/L	1	4/28/2016 02:29 PM
Copper	**0.13**		**0.10**	**mg/L**	1	4/28/2016 02:29 PM
Iron	**21**		**0.80**	**mg/L**	1	4/28/2016 02:29 PM
Lead	**0.90**		**0.060**	**mg/L**	1	4/28/2016 02:29 PM
Lithium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Magnesium	**9.3**		**0.80**	**mg/L**	1	4/28/2016 02:29 PM
Manganese	ND		0.20	mg/L	1	4/28/2016 02:29 PM
Molybdenum	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Nickel	ND		0.16	mg/L	1	4/28/2016 02:29 PM
Phosphorus	**1.9**		**0.40**	**mg/L**	1	4/28/2016 02:29 PM
Platinum	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Selenium	ND		0.12	mg/L	1	4/28/2016 02:29 PM
Silver	ND		0.040	mg/L	1	4/28/2016 02:29 PM
Sodium	**12**		**0.80**	**mg/L**	1	4/28/2016 02:29 PM
Tellurium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Thallium	ND		0.0080	mg/L	1	4/28/2016 02:29 PM
Tin	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Titanium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Tungsten	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Vanadium	ND		0.20	mg/L	1	4/28/2016 02:29 PM
Yttrium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
Zinc	**0.33**		**0.20**	**mg/L**	1	4/28/2016 02:29 PM
Zirconium	ND		0.40	mg/L	1	4/28/2016 02:29 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,1,1-Trichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,1,2,2-Tetrachloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,1,2-Trichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,1-Dichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM

Note:

ALS Environmental

Date: *05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 1- Ex. 6 - Personal Privacy Shower
Collection Date: 2/4/2016

Work Order: 1604888
Lab ID: 1604888-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,1-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2,3-Trichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2,3-Trichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2,4-Trichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2,4-Trimethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2-Dibromo-3-chloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2-Dibromoethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2-Dichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,2-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,3,5-Trimethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,3-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,3-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
1,4-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
2,2-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
2-Butanone	**5.8**	H	**5.0**	**µg/L**	1	5/3/2016 01:10 PM
2-Chlorotoluene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
2-Hexanone	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
4-Chlorotoluene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
4-Methyl-2-pentanone	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Acetone	**8.5**	H	**5.0**	**µg/L**	1	5/3/2016 01:10 PM
Benzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Bromobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Bromochloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Bromodichloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Bromoform	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Bromomethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Carbon disulfide	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Carbon tetrachloride	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Chlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Chloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Chloroform	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Chloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
cis-1,2-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
cis-1,3-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Dibromochloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Dibromomethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Dichlorodifluoromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Ethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM

Note:

ALS Environmental

Date: *05-May-16*

Client: Water Defense
Project: Flin Ex. 6 - Personal Privacy House
Sample ID: 1- Ex. 6 - Personal Privacy Shower
Collection Date: 2/4/2016

Work Order: 1604888
Lab ID: 1604888-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Isopropylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
m,p-Xylene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Methyl tert-butyl ether	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Methylene chloride	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Naphthalene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
n-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
n-Propylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
o-Xylene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
p-Isopropyltoluene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
sec-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Styrene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
tert-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Tetrachloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Toluene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
trans-1,2-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
trans-1,3-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Trichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Trichlorofluoromethane	ND	H	5.0	µg/L	1	5/3/2016 01:10 PM
Vinyl chloride	ND	H	2.0	µg/L	1	5/3/2016 01:10 PM
Xylenes, Total	ND	H	10	µg/L	1	5/3/2016 01:10 PM
Surr: 4-Bromofluorobenzene	*97.2*		*61-131*	*%REC*	1	5/3/2016 01:10 PM
Surr: Dibromofluoromethane	*107*		*87-126*	*%REC*	1	5/3/2016 01:10 PM
Surr: Toluene-d8	*101*		*84-111*	*%REC*	1	5/3/2016 01:10 PM

Note:

ALS Environmental

Date: *05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 2 Ex. 6 - Personal Privacy Laundry Room Basement
Collection Date: 4/11/2016

Work Order: 1604888
Lab ID: 1604888-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7470A**		Prep Date: **4/28/2016**	Analyst: **VAW**
Mercury	ND		1.3	µg/L	1	4/28/2016
METALS BY ICP			**SW6010B**		Prep Date: **4/28/2016**	Analyst: **SRL**
Aluminum	**1.2**		**0.40**	**mg/L**	1	4/28/2016 02:32 PM
Arsenic	ND		0.020	mg/L	1	4/28/2016 02:32 PM
Barium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Beryllium	ND		0.0080	mg/L	1	4/28/2016 02:32 PM
Cadmium	ND		0.010	mg/L	1	4/28/2016 02:32 PM
Calcium	**30**		**0.40**	**mg/L**	1	4/28/2016 02:32 PM
Chromium	ND		0.040	mg/L	1	4/28/2016 02:32 PM
Cobalt	ND		0.10	mg/L	1	4/28/2016 02:32 PM
Copper	**13**		**0.050**	**mg/L**	1	4/28/2016 02:32 PM
Iron	**18**		**0.40**	**mg/L**	1	4/28/2016 02:32 PM
Lead	**1.2**		**0.030**	**mg/L**	1	4/28/2016 02:32 PM
Lithium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Magnesium	**9.8**		**0.40**	**mg/L**	1	4/28/2016 02:32 PM
Manganese	**0.42**		**0.10**	**mg/L**	1	4/28/2016 02:32 PM
Molybdenum	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Nickel	ND		0.080	mg/L	1	4/28/2016 02:32 PM
Phosphorus	**3.1**		**0.20**	**mg/L**	1	4/28/2016 02:32 PM
Platinum	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Selenium	ND		0.060	mg/L	1	4/28/2016 02:32 PM
Silver	ND		0.020	mg/L	1	4/28/2016 02:32 PM
Sodium	**9.8**		**0.40**	**mg/L**	1	4/28/2016 02:32 PM
Tellurium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Thallium	ND		0.0040	mg/L	1	4/28/2016 02:32 PM
Tin	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Titanium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Tungsten	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Vanadium	ND		0.10	mg/L	1	4/28/2016 02:32 PM
Yttrium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
Zinc	**1.5**		**0.10**	**mg/L**	1	4/28/2016 02:32 PM
Zirconium	ND		0.20	mg/L	1	4/28/2016 02:32 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **LAK**
1,1,1,2-Tetrachloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,1,1-Trichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,1,2,2-Tetrachloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,1,2-Trichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,1-Dichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM

Note:

ALS Environmental

Date: *05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 2-Ex. 6 - Personal Privacy Laundry Room Basement
Collection Date: 4/11/2016

Work Order: 1604888
Lab ID: 1604888-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,1-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2,3-Trichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2,3-Trichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2,4-Trichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2,4-Trimethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2-Dibromo-3-chloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2-Dibromoethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2-Dichloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,2-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,3,5-Trimethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,3-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,3-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
1,4-Dichlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
2,2-Dichloropropane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
2-Butanone	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
2-Chlorotoluene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
2-Hexanone	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
4-Chlorotoluene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
4-Methyl-2-pentanone	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Acetone	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Benzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Bromobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Bromochloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Bromodichloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Bromoform	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Bromomethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Carbon disulfide	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Carbon tetrachloride	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Chlorobenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Chloroethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Chloroform	**9.4**	H	**5.0**	**µg/L**	1	5/3/2016 01:42 PM
Chloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
cis-1,2-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
cis-1,3-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Dibromochloromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Dibromomethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Dichlorodifluoromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Ethylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM

Note:

ALS Environmental

Date: *05-May-16*

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
Sample ID: 2- Ex. 6 - Personal Privacy Laundry Room Basement
Collection Date: 4/11/2016

Work Order: 1604888
Lab ID: 1604888-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Isopropylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
m,p-Xylene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Methyl tert-butyl ether	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Methylene chloride	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Naphthalene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
n-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
n-Propylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
o-Xylene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
p-Isopropyltoluene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
sec-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Styrene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
tert-Butylbenzene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Tetrachloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Toluene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
trans-1,2-Dichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
trans-1,3-Dichloropropene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Trichloroethene	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Trichlorofluoromethane	ND	H	5.0	µg/L	1	5/3/2016 01:42 PM
Vinyl chloride	ND	H	2.0	µg/L	1	5/3/2016 01:42 PM
Xylenes, Total	ND	H	10	µg/L	1	5/3/2016 01:42 PM
Surr: 4-Bromofluorobenzene	*98.8*		*61-131*	*%REC*	1	5/3/2016 01:42 PM
Surr: Dibromofluoromethane	*107*		*87-126*	*%REC*	1	5/3/2016 01:42 PM
Surr: Toluene-d8	*102*		*84-111*	*%REC*	1	5/3/2016 01:42 PM

Note:

ALS Environmental

Date: 05-May-16

Client: Water Defense

Work Order: 1604888

Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35518** Instrument ID: **HG1** Method: **SW7470A**

MBLK Sample ID: **mblk-35518-35518** Units: **µg/L** Analysis Date: **4/28/2016**
Client ID: Run ID: **HG1_160428B** SeqNo: **1270002** Prep Date: **4/28/2016** 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-35518-35518** Units: **µg/L** Analysis Date: **4/28/2016**
Client ID: Run ID: **HG1_160428B** SeqNo: **1270003** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.03	0.50	5	0	101	80-120	0			

LCSD Sample ID: **lcsd-35518-35518** Units: **µg/L** Analysis Date: **4/28/2016**
Client ID: Run ID: **HG1_160428B** SeqNo: **1270004** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.03	0.50	5	0	101	80-120	5.03	0	20	

MS Sample ID: **1604885-04b ms** Units: **µg/L** Analysis Date: **4/28/2016**
Client ID: Run ID: **HG1_160428B** SeqNo: **1270007** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.82	0.50	5	0	96.4	75-125	0			

MSD Sample ID: **1604885-04b msd** Units: **µg/L** Analysis Date: **4/28/2016**
Client ID: Run ID: **HG1_160428B** SeqNo: **1270008** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.79	0.50	5	0	95.8	75-125	4.82	0.624	20	

The following samples were analyzed in this batch: 1604888-01A 1604888-02A

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35517** Instrument ID: **ICP3** Method: **SW6010B**

MBLK Sample ID: **mblk-35517-35517** Units: **mg/L** Analysis Date: **4/28/2016 01:49 PM**
Client ID: Run ID: **ICP3_160428B** SeqNo: **1270265** Prep Date: **4/28/2016** 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: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35517** Instrument ID: **ICP3** Method: **SW6010B**

LCS Sample ID: **lcs-35517-35517** Units: **mg/L** Analysis Date: **4/28/2016 01:53 PM**
Client ID: Run ID: **ICP3_160428B** SeqNo: **1270266** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.069	0.20	1.1	0	97.2	87.9-120	0			
Arsenic	1.033	0.010	1.1	0	93.9	80-120	0			
Barium	1.064	0.10	1.1	0	96.7	80-120	0			
Beryllium	1.054	0.00040	1.1	0	95.8	80-120	0			
Cadmium	1.056	0.0050	1.1	0	96	80-120	0			
Calcium	1.034	0.20	1.1	0	94	80.3-122	0			
Chromium	1.069	0.020	1.1	0	97.2	80-120	0			
Cobalt	1.052	0.025	1.1	0	95.6	80-120	0			
Copper	1.059	0.025	1.1	0	96.3	80-120	0			
Lead	1.095	0.015	1.1	0	99.6	80-120	0			
Magnesium	1.074	0.20	1.1	0	97.6	80-120	0			
Manganese	1.06	0.050	1.1	0	96.4	80-120	0			
Molybdenum	1.048	0.10	1.1	0	95.3	80-120	0			
Nickel	1.066	0.050	1.1	0	96.9	80-120	0			
Selenium	1.011	0.030	1.1	0	91.9	80-120	0			
Silver	1.088	0.010	1.1	0	98.9	80-120	0			
Sodium	0.9968	0.20	1.1	0	90.6	80-120	0			
Thallium	1.072	0.0020	1.1	0	97.4	80-120	0			
Titanium	1.068	0.10	1.1	0	97.1	80-120	0			
Vanadium	1.062	0.050	1.1	0	96.6	80-120	0			
Zinc	1.08	0.050	1.1	0	98.2	80-120	0			

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35517** Instrument ID: **ICP3** Method: **SW6010B**

LCSD Sample ID: **lcsd-35517-35517** Units: **mg/L** Analysis Date: **4/28/2016 01:56 PM**
Client ID: Run ID: **ICP3_160428B** SeqNo: **1270267** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.067	0.20	1.1	0	97	87.9-120	1.069	0.175	20	
Arsenic	1.015	0.010	1.1	0	92.2	80-120	1.033	1.77	20	
Barium	1.049	0.10	1.1	0	95.4	80-120	1.064	1.43	20	
Beryllium	1.05	0.00040	1.1	0	95.5	80-120	1.054	0.335	20	
Cadmium	1.038	0.0050	1.1	0	94.4	80-120	1.056	1.72	20	
Calcium	1.031	0.20	1.1	0	93.7	80.3-122	1.034	0.288	20	
Chromium	1.056	0.020	1.1	0	96	80-120	1.069	1.19	20	
Cobalt	1.036	0.025	1.1	0	94.2	80-120	1.052	1.57	20	
Copper	1.044	0.025	1.1	0	94.9	80-120	1.059	1.39	20	
Iron	1.064	0.20	1.1	0	96.8	80-120	1.049	1.45	20	
Lead	1.083	0.015	1.1	0	98.5	80-120	1.095	1.11	20	
Magnesium	1.087	0.20	1.1	0	98.8	80-120	1.074	1.23	20	
Manganese	1.067	0.050	1.1	0	97	80-120	1.06	0.6	20	
Molybdenum	1.031	0.10	1.1	0	93.7	80-120	1.048	1.65	20	
Nickel	1.048	0.050	1.1	0	95.3	80-120	1.066	1.69	20	
Selenium	0.9956	0.030	1.1	0	90.5	80-120	1.011	1.51	20	
Silver	1.076	0.010	1.1	0	97.8	80-120	1.088	1.1	20	
Sodium	0.9782	0.20	1.1	0	88.9	80-120	0.9968	1.88	20	
Thallium	1.053	0.0020	1.1	0	95.8	80-120	1.072	1.75	20	
Titanium	1.065	0.10	1.1	0	96.8	80-120	1.068	0.361	20	
Vanadium	1.064	0.050	1.1	0	96.7	80-120	1.062	0.103	20	
Zinc	1.065	0.050	1.1	0	96.8	80-120	1.08	1.39	20	

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35517** Instrument ID: **ICP3** Method: **SW6010B**

MS Sample ID: **1604885-01b ms** Units: **mg/L** Analysis Date: **4/28/2016 02:02 PM**
Client ID: Run ID: **ICP3_160428B** SeqNo: **1270269** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.316	0.20	1.1	0.2979	92.5	75-125	0			
Arsenic	1.025	0.010	1.1	-0.0004004	93.2	75-125	0			
Barium	1.054	0.10	1.1	0.01833	94.2	75-125	0			
Beryllium	1.041	0.00040	1.1	0.0000363	94.7	75-125	0			
Cadmium	1.039	0.0050	1.1	0.00126	94.4	75-125	0			
Calcium	26.21	0.20	1.1	26.47	-23	75-125	0			SO
Chromium	1.047	0.020	1.1	0.001593	95.1	75-125	0			
Cobalt	1.019	0.025	1.1	-0.0001892	92.6	75-125	0			
Copper	1.276	0.025	1.1	0.2659	91.8	75-125	0			
Iron	1.073	0.20	1.1	0.0444	93.6	75-125	0			
Lead	1.145	0.015	1.1	0.08121	96.7	75-125	0			
Magnesium	8.608	0.20	1.1	7.826	71	75-125	0			SO
Manganese	1.042	0.050	1.1	0.002009	94.6	75-125	0			
Molybdenum	1.039	0.10	1.1	0.001874	94.3	75-125	0			
Nickel	1.031	0.050	1.1	0.003262	93.4	75-125	0			
Selenium	1.001	0.030	1.1	-0.002351	91.2	75-125	0			
Silver	1.06	0.010	1.1	0.000561	96.3	75-125	0			
Sodium	5.357	0.20	1.1	4.532	75	75-125	0			SO
Thallium	1.038	0.0020	1.1	-0.001011	94.5	75-125	0			
Titanium	1.053	0.10	1.1	-0.0006831	95.8	75-125	0			
Vanadium	1.05	0.050	1.1	-0.01034	96.4	75-125	0			
Zinc	1.951	0.050	1.1	0.9242	93.4	75-125	0			

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **35517** Instrument ID: **ICP3** Method: **SW6010B**

MSD Sample ID: **1604885-01b msd** Units: **mg/L** Analysis Date: **4/28/2016 02:04 PM**
Client ID: Run ID: **ICP3_160428B** SeqNo: **1270270** Prep Date: **4/28/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.327	0.20	1.1	0.2979	93.5	75-125	1.316	0.833	20	
Arsenic	1.019	0.010	1.1	-0.0004004	92.7	75-125	1.025	0.527	20	
Barium	1.05	0.10	1.1	0.01833	93.8	75-125	1.054	0.429	20	
Beryllium	1.035	0.00040	1.1	0.0000363	94.1	75-125	1.041	0.583	20	
Cadmium	1.03	0.0050	1.1	0.00126	93.5	75-125	1.039	0.904	20	
Calcium	26.07	0.20	1.1	26.47	-36	75-125	26.21	0.547	20	SO
Chromium	1.045	0.020	1.1	0.001593	94.8	75-125	1.047	0.252	20	
Cobalt	1.008	0.025	1.1	-0.0001892	91.7	75-125	1.019	1.04	20	
Copper	1.276	0.025	1.1	0.2659	91.8	75-125	1.276	0	20	
Iron	1.055	0.20	1.1	0.0444	91.9	75-125	1.073	1.69	20	
Lead	1.134	0.015	1.1	0.08121	95.7	75-125	1.145	0.965	20	
Magnesium	8.428	0.20	1.1	7.826	54.7	75-125	8.608	2.1	20	SO
Manganese	1.025	0.050	1.1	0.002009	93	75-125	1.042	1.68	20	
Molybdenum	1.03	0.10	1.1	0.001874	93.5	75-125	1.039	0.904	20	
Nickel	1.021	0.050	1.1	0.003262	92.5	75-125	1.031	0.997	20	
Selenium	0.9933	0.030	1.1	-0.002351	90.5	75-125	1.001	0.75	20	
Silver	1.058	0.010	1.1	0.000561	96.2	75-125	1.06	0.125	20	
Sodium	5.325	0.20	1.1	4.532	72.1	75-125	5.357	0.597	20	SO
Thallium	1.033	0.0020	1.1	-0.001011	94	75-125	1.038	0.531	20	
Titanium	1.046	0.10	1.1	-0.0006831	95.1	75-125	1.053	0.723	20	
Vanadium	1.04	0.050	1.1	-0.01034	95.5	75-125	1.05	0.958	20	
Zinc	1.937	0.050	1.1	0.9242	92.1	75-125	1.951	0.736	20	

The following samples were analyzed in this batch: 1604888-01a 1604888-02a

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R128476** Instrument ID: **VMS1** Method: **SW8260B**

MBLK Sample ID: **MBLK-R128476** Units: **µg/L** Analysis Date: **5/3/2016 08:52 AM**
Client ID: Run ID: **VMS1_160503B** SeqNo: **1273420** 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.

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R128476** 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	50.51	0	*50*	0	*101*	*61-131*	0
Surr: Dibromofluoromethane	52.07	0	*50*	0	*104*	*87-126*	0
Surr: Toluene-d8	50.27	0	*50*	0	*101*	*84-111*	0

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R128476** Instrument ID: **VMS1** Method: **SW8260B**

LCS Sample ID: **LCS-R128476** Units: **µg/L** Analysis Date: **5/3/2016 09:24 AM**
Client ID: Run ID: **VMS1_160503B** SeqNo: **1273421** 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	58.34	5.0	50	0	117	48.4-140	0			
1,1-Dichloroethene	59.5	5.0	50	0	119	45.5-150	0			
1,2-Dichloroethane	60.11	5.0	50	0	120	46.5-141	0			
1,3-Dichlorobenzene	46.85	5.0	50	0	93.7	42.5-133	0			
1,4-Dichlorobenzene	47.07	5.0	50	0	94.1	38.9-136	0			
Benzene	56.28	5.0	50	0	113	50.7-134	0			
Carbon tetrachloride	59.92	5.0	50	0	120	45.5-143	0			
Chlorobenzene	51.48	5.0	50	0	103	45-133	0			
Chloroform	59.71	5.0	50	0	119	52.4-136	0			
cis-1,2-Dichloroethene	59.05	5.0	50	0	118	49.7-138	0			
Ethylbenzene	50.78	5.0	50	0	102	37.8-145	0			
m,p-Xylene	101.6	5.0	100	0	102	25.1-163	0			
Methyl tert-butyl ether	69.08	5.0	50	0	138	26.7-174	0			
Styrene	52.02	5.0	50	0	104	26.3-172	0			
Tetrachloroethene	54.52	5.0	50	0	109	37.3-139	0			
Toluene	54.18	5.0	50	0	108	44-135	0			
Trichloroethene	56.49	5.0	50	0	113	45.9-140	0			
Xylenes, Total	152.2	10	150	0	101	47.3-132	0			
Surr: 4-Bromofluorobenzene	48.92	0	*50*	0	*97.8*	*61-131*	0			
Surr: Dibromofluoromethane	53.34	0	*50*	0	*107*	*87-126*	0			
Surr: Toluene-d8	51.26	0	*50*	0	*103*	*84-111*	0			

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R128476** Instrument ID: **VMS1** Method: **SW8260B**

MS Sample ID: **1604738-01A MS** Units: **µg/L** Analysis Date: **5/3/2016 10:28 AM**
Client ID: Run ID: **VMS1_160503B** SeqNo: **1273423** 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	53.65	5.0	50	0	107	40.4-134	0			
1,1-Dichloroethene	55.05	5.0	50	0	110	45.3-151	0			
1,2-Dichloroethane	53.49	5.0	50	0	107	37-139	0			
1,3-Dichlorobenzene	46.18	5.0	50	0	92.4	42.9-121	0			
1,4-Dichlorobenzene	46.08	5.0	50	0	92.2	53.4-129	0			
Benzene	52.26	5.0	50	0	105	37.4-144	0			
Carbon tetrachloride	55.96	5.0	50	0	112	33.8-150	0			
Chlorobenzene	49.69	5.0	50	0	99.4	52.4-132	0			
Chloroform	54.9	5.0	50	0	110	45.5-135	0			
cis-1,2-Dichloroethene	53.89	5.0	50	0	108	35.2-150	0			
Ethylbenzene	49.15	5.0	50	0	98.3	46.5-146	0			
m,p-Xylene	99.21	5.0	100	0	99.2	38.2-167	0			
Styrene	49.94	5.0	50	0	99.9	20.9-184	0			
Tetrachloroethene	52.83	5.0	50	0	106	55.2-134	0			
Toluene	51.99	5.0	50	0	104	32.7-140	0			
Trichloroethene	53.48	5.0	50	0	107	29.1-153	0			
Surr: 4-Bromofluorobenzene	49.29	0	*50*	0	*98.6*	*61-131*	0			
Surr: Dibromofluoromethane	53.17	0	*50*	0	*106*	*87-126*	0			
Surr: Toluene-d8	51.01	0	*50*	0	*102*	*84-111*	0			

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

Client: Water Defense
Work Order: 1604888
Project: Flint Ex. 6 - Personal Privacy House

QC BATCH REPORT

Batch ID: **R128476** Instrument ID: **VMS1** Method: **SW8260B**

MSD Sample ID: **1604738-01A MSD** Units: **µg/L** Analysis Date: **5/3/2016 11:34 AM**
Client ID: Run ID: **VMS1_160503B** SeqNo: **1273425** 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	55.44	5.0	50	0	111	40.4-134	53.65	3.28	20	
1,1-Dichloroethene	57.11	5.0	50	0	114	45.3-151	55.05	3.67	20	
1,2-Dichloroethane	55.48	5.0	50	0	111	37-139	53.49	3.65	20	
1,3-Dichlorobenzene	46.95	5.0	50	0	93.9	42.9-121	46.18	1.65	20	
1,4-Dichlorobenzene	47.11	5.0	50	0	94.2	53.4-129	46.08	2.21	20	
Benzene	53.69	5.0	50	0	107	37.4-144	52.26	2.7	20	
Carbon tetrachloride	57.57	5.0	50	0	115	33.8-150	55.96	2.84	20	
Chlorobenzene	50.67	5.0	50	0	101	52.4-132	49.69	1.95	20	
Chloroform	56.8	5.0	50	0	114	45.5-135	54.9	3.4	20	
cis-1,2-Dichloroethene	56.79	5.0	50	0	114	35.2-150	53.89	5.24	21	
Ethylbenzene	50.04	5.0	50	0	100	46.5-146	49.15	1.79	20	
m,p-Xylene	100.1	5.0	100	0	100	38.2-167	99.21	0.883	20	
Styrene	50.74	5.0	50	0	101	20.9-184	49.94	1.59	20	
Tetrachloroethene	53.4	5.0	50	0	107	55.2-134	52.83	1.07	20	
Toluene	53.14	5.0	50	0	106	32.7-140	51.99	2.19	20	
Trichloroethene	54.22	5.0	50	0	108	29.1-153	53.48	1.37	20	
Surr: 4-Bromofluorobenzene	49.17	0	*50*	0	*98.3*	*61-131*	49.29	*0.244*		
Surr: Dibromofluoromethane	53.85	0	*50*	0	*108*	*87-126*	53.17	*1.27*		
Surr: Toluene-d8	51.01	0	*50*	0	*102*	*84-111*	51.01	*0*		

The following samples were analyzed in this batch: 1604888-01A 1604888-02A

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

ALS Environmental

Date: 05-May-16

Client: Water Defense
Project: Flint Ex. 6 - Personal Privacy House
WorkOrder: 1604[redacted]

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated MethodBlank 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 controllimits
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/L	
mg/L	

ALS Environmental

Sample Receipt Checklist

Client Name: **WATERDEFENSE-HURLEYVUL** Date/Time Received: **26-Apr-16 14:50**

Work Order: **1604888** Received by: **JNW**

Checklist completed by: Jan Wilcox (eSignature) 27-Apr-16 (Date) Reviewed by: Jeff Ogle (eSignature) 28-Apr-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):	5.6		
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:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action: