

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-189811-1

Client Project/Site: SMMUSD - Summer 2017

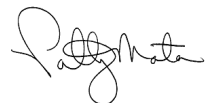
For:

Ramboll Environ US Corporation

18100 Von Karman Avenue, Ste 600

Irvine, California 92612

Attn: Renee VanDeGriend



Authorized for release by:

8/18/2017 9:20:52 AM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Method Summary	6
Lab Chronicle	7
QC Sample Results	8
QC Association Summary	12
Definitions/Glossary	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	17



Sample Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-189811-1	BMP-WATER	Water	08/08/17 12:05	08/08/17 18:25
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Solid	08/08/17 12:20	08/08/17 18:25

Case Narrative

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Job ID: 440-189811-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-189811-1

Comments

No additional comments.

Receipt

The samples were received on 8/8/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC Semi VOA

Method(s) 8082: Elevated reporting limits are provided for the following sample due to insufficient sample weight (less than 15 grams) provided for preparation: BMP- DUST 1-4 (COMPOSITE) (440-189811-6).

Method(s) 8082: Insufficient additional sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-422111 and analytical batch 440-422136. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3546 / 8082: The following sample had smaller initial weight used due to the nature of the sample matrix: BMP- DUST 1-4 (COMPOSITE) (440-189811-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Client Sample ID: BMP-WATER

Date Collected: 08/08/17 12:05

Date Received: 08/08/17 18:25

Lab Sample ID: 440-189811-1

Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1221	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1232	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1242	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1248	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1254	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1
Aroclor 1260	ND		0.56	ug/L		08/09/17 06:34	08/09/17 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		29 - 115	08/09/17 06:34	08/09/17 18:04	1

Client Sample ID: BMP- DUST 1-4 (COMPOSITE)

Date Collected: 08/08/17 12:20

Date Received: 08/08/17 18:25

Lab Sample ID: 440-189811-6

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1221	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1232	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1242	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1248	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1254	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1
Aroclor 1260	ND		1500	ug/Kg		08/10/17 08:11	08/11/17 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	73		45 - 120	08/10/17 08:11	08/11/17 12:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	12		9.9	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Arsenic	ND		3.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Barium	210		1.5	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Beryllium	ND		0.50	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Cadmium	3.8		0.50	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Chromium	54		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Cobalt	3.2		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Copper	290		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Lead	26		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Molybdenum	2.3		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Nickel	20		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Selenium	ND		3.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Thallium	ND		9.9	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Vanadium	12		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Zinc	890		5.0	mg/Kg		08/12/17 07:55	08/12/17 16:38	5
Silver	ND		1.5	mg/Kg		08/12/17 07:55	08/12/17 16:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	mg/Kg		08/09/17 16:59	08/14/17 23:01	1

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Method Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Client Sample ID: BMP-WATER

Date Collected: 08/08/17 12:05

Date Received: 08/08/17 18:25

Lab Sample ID: 440-189811-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			900 mL	2 mL	422111	08/09/17 06:34	L2A	TAL IRV
Total/NA	Analysis	8082		1			422136	08/09/17 18:04	JM	TAL IRV

Client Sample ID: BMP- DUST 1-4 (COMPOSITE)

Date Collected: 08/08/17 12:20

Date Received: 08/08/17 18:25

Lab Sample ID: 440-189811-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			0.51 g	2 mL	422402	08/10/17 08:11	VA	TAL IRV
Total/NA	Analysis	8082		1			422684	08/11/17 12:59	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	422900	08/12/17 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			422968	08/12/17 16:38	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	422302	08/09/17 16:59	DB	TAL IRV
Total/NA	Analysis	7471A		1			423264	08/14/17 23:01	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 440-422111/1-A

Matrix: Water

Analysis Batch: 422136

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1221	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1232	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1242	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1248	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1254	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1
Aroclor 1260	ND		0.50	ug/L		08/09/17 06:34	08/09/17 16:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		29 - 115	08/09/17 06:34	08/09/17 16:57	1

Lab Sample ID: LCS 440-422111/4-A

Matrix: Water

Analysis Batch: 422136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 422111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	3.47		ug/L		87	39 - 145
Aroclor 1260	4.00	3.42		ug/L		85	37 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	82		29 - 115

Lab Sample ID: LCSD 440-422111/5-A

Matrix: Water

Analysis Batch: 422136

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 422111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.57		ug/L		89	39 - 145	3	30
Aroclor 1260	4.00	3.58		ug/L		90	37 - 137	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		29 - 115

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-422402/1-A

Matrix: Solid

Analysis Batch: 422684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422402

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1221	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1232	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1242	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1248	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1254	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1260	ND		50	ug/Kg		08/10/17 08:11	08/11/17 11:52	1

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QC Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	95		45 - 120	08/10/17 08:11	08/11/17 11:52	1

Lab Sample ID: LCS 440-422402/2-A

Matrix: Solid

Analysis Batch: 422684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 422402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	211		ug/Kg		79	65 - 115
Aroclor 1260	267	217		ug/Kg		81	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	81		45 - 120

Lab Sample ID: 440-189530-A-23-E MS

Matrix: Solid

Analysis Batch: 422684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 422402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		544	492		ug/Kg		90	50 - 120
Aroclor 1260	ND		544	428		ug/Kg		79	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	69		45 - 120

Lab Sample ID: 440-189530-A-23-F MSD

Matrix: Solid

Analysis Batch: 422684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 422402

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		535	497		ug/Kg		93	50 - 120	1	30
Aroclor 1260	ND		535	414		ug/Kg		77	50 - 125	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	79		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-422900/1-A ^5

Matrix: Solid

Analysis Batch: 422968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422900

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Arsenic	ND		3.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Barium	ND		1.5	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Beryllium	ND		0.50	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Cadmium	ND		0.50	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Chromium	ND		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Cobalt	ND		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Copper	ND		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Lead	ND		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Molybdenum	ND		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Nickel	ND		2.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5

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QC Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-422900/1-A ^5

Matrix: Solid

Analysis Batch: 422968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422900

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		3.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Thallium	ND		9.9	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Vanadium	ND		0.99	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Zinc	ND		5.0	mg/Kg		08/12/17 07:55	08/12/17 16:13	5
Silver	ND		1.5	mg/Kg		08/12/17 07:55	08/12/17 16:13	5

Lab Sample ID: LCS 440-422900/2-A ^5

Matrix: Solid

Analysis Batch: 422968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 422900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	49.7		mg/Kg		99	80 - 120
Arsenic	50.0	47.9		mg/Kg		96	80 - 120
Barium	50.0	48.3		mg/Kg		97	80 - 120
Beryllium	50.0	45.9		mg/Kg		92	80 - 120
Cadmium	50.0	48.3		mg/Kg		97	80 - 120
Chromium	50.0	49.7		mg/Kg		99	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	50.0	48.4		mg/Kg		97	80 - 120
Lead	50.0	48.1		mg/Kg		96	80 - 120
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	44.5		mg/Kg		89	80 - 120
Thallium	50.0	49.6		mg/Kg		99	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	48.1		mg/Kg		96	80 - 120
Silver	25.0	23.4		mg/Kg		94	80 - 120

Lab Sample ID: 440-190028-A-1-C MS ^5

Matrix: Solid

Analysis Batch: 422968

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 422900

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		49.5	41.6		mg/Kg		84	75 - 125
Arsenic	ND		49.5	48.0		mg/Kg		97	75 - 125
Barium	19		49.5	72.9		mg/Kg		109	75 - 125
Beryllium	ND		49.5	45.7		mg/Kg		92	75 - 125
Cadmium	ND		49.5	46.2		mg/Kg		93	75 - 125
Chromium	5.8		49.5	57.3		mg/Kg		104	75 - 125
Cobalt	1.4		49.5	49.7		mg/Kg		98	75 - 125
Copper	2.5		49.5	50.8		mg/Kg		98	75 - 125
Lead	ND		49.5	47.8		mg/Kg		97	75 - 125
Molybdenum	ND		49.5	49.1		mg/Kg		99	75 - 125
Nickel	3.2		49.5	51.6		mg/Kg		98	75 - 125
Selenium	ND		49.5	43.0		mg/Kg		87	75 - 125
Thallium	ND		49.5	47.2		mg/Kg		95	75 - 125
Vanadium	9.7		49.5	68.0		mg/Kg		118	75 - 125
Zinc	9.6		49.5	57.3		mg/Kg		97	75 - 125
Silver	ND		24.8	22.8		mg/Kg		92	75 - 125

TestAmerica Irvine

QC Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Lab Sample ID: 440-190028-A-1-D MSD ^5

Matrix: Solid

Analysis Batch: 422968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 422900

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.3	41.1		mg/Kg		84	75 - 125	1	20
Arsenic	ND		49.3	46.6		mg/Kg		95	75 - 125	3	20
Barium	19		49.3	76.0		mg/Kg		116	75 - 125	4	20
Beryllium	ND		49.3	45.4		mg/Kg		92	75 - 125	1	20
Cadmium	ND		49.3	47.0		mg/Kg		95	75 - 125	2	20
Chromium	5.8		49.3	55.4		mg/Kg		101	75 - 125	3	20
Cobalt	1.4		49.3	50.2		mg/Kg		99	75 - 125	1	20
Copper	2.5		49.3	51.3		mg/Kg		99	75 - 125	1	20
Lead	ND		49.3	48.0		mg/Kg		97	75 - 125	0	20
Molybdenum	ND		49.3	48.4		mg/Kg		98	75 - 125	1	20
Nickel	3.2		49.3	51.4		mg/Kg		98	75 - 125	0	20
Selenium	ND		49.3	46.2		mg/Kg		94	75 - 125	7	20
Thallium	ND		49.3	48.2		mg/Kg		98	75 - 125	2	20
Vanadium	9.7		49.3	61.5		mg/Kg		105	75 - 125	10	20
Zinc	9.6		49.3	59.9		mg/Kg		102	75 - 125	4	20
Silver	ND		24.6	23.2		mg/Kg		94	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-422302/1-A

Matrix: Solid

Analysis Batch: 423263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422302

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	mg/Kg		08/09/17 16:59	08/14/17 20:46	1

Lab Sample ID: LCS 440-422302/2-A

Matrix: Solid

Analysis Batch: 423263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 422302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.766		mg/Kg		96	80 - 120

Lab Sample ID: 440-189680-A-33-B MS

Matrix: Solid

Analysis Batch: 423263

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 422302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.078		0.800	0.754		mg/Kg		84	70 - 130

Lab Sample ID: 440-189680-A-33-C MSD

Matrix: Solid

Analysis Batch: 423263

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 422302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.078		0.816	0.712		mg/Kg		78	70 - 130	6	20

TestAmerica Irvine

QC Association Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

GC Semi VOA

Prep Batch: 422111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-1	BMP-WATER	Total/NA	Water	3510C	
MB 440-422111/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-422111/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-422111/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 422136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-1	BMP-WATER	Total/NA	Water	8082	422111
MB 440-422111/1-A	Method Blank	Total/NA	Water	8082	422111
LCS 440-422111/4-A	Lab Control Sample	Total/NA	Water	8082	422111
LCSD 440-422111/5-A	Lab Control Sample Dup	Total/NA	Water	8082	422111

Prep Batch: 422402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	3546	
MB 440-422402/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-422402/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-189530-A-23-E MS	Matrix Spike	Total/NA	Solid	3546	
440-189530-A-23-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 422684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	8082	422402
MB 440-422402/1-A	Method Blank	Total/NA	Solid	8082	422402
LCS 440-422402/2-A	Lab Control Sample	Total/NA	Solid	8082	422402
440-189530-A-23-E MS	Matrix Spike	Total/NA	Solid	8082	422402
440-189530-A-23-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	422402

Metals

Prep Batch: 422302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	7471A	
MB 440-422302/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-422302/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-189680-A-33-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-189680-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 422900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	3050B	
MB 440-422900/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-422900/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-190028-A-1-C MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-190028-A-1-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 422968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	6010B	422900
MB 440-422900/1-A ^5	Method Blank	Total/NA	Solid	6010B	422900

TestAmerica Irvine

QC Association Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Metals (Continued)

Analysis Batch: 422968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-422900/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	422900
440-190028-A-1-C MS ^5	Matrix Spike	Total/NA	Solid	6010B	422900
440-190028-A-1-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	422900

Analysis Batch: 423263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-422302/1-A	Method Blank	Total/NA	Solid	7471A	422302
LCS 440-422302/2-A	Lab Control Sample	Total/NA	Solid	7471A	422302
440-189680-A-33-B MS	Matrix Spike	Total/NA	Solid	7471A	422302
440-189680-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	422302

Analysis Batch: 423264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Total/NA	Solid	7471A	422302

Definitions/Glossary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-17
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18
Hawaii	State Program	9	N/A	01-29-18
Kansas	NELAP Secondary AB	7	E-10420	07-31-17 *
Nevada	State Program	9	CA015312018-1	07-31-18 *
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine

Login Sample Receipt Checklist

Client: Ramboll Environ US Corporation

Job Number: 440-189811-1

Login Number: 189811

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Composite
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-189811-2

Client Project/Site: SMMUSD - Summer 2017

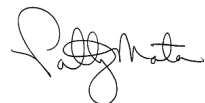
For:

Ramboll Environ US Corporation

18100 Von Karman Avenue, Ste 600

Irvine, California 92612

Attn: Renee VanDeGriend



Authorized for release by:

8/30/2017 10:17:13 AM

Patty Mata, Senior Project Manager

(949)261-1022

patty.mata@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Method Summary	6
Lab Chronicle	7
QC Sample Results	8
QC Association Summary	9
Definitions/Glossary	10
Certification Summary	11
Chain of Custody	12
Receipt Checklists	14



Sample Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	Solid	08/08/17 12:20	08/08/17 18:25

Case Narrative

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Job ID: 440-189811-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-189811-2

Comments

Only the additional STLC test results for sample BMP- DUST 1-4 (COMPOSITE) (440-189811-6) that were requested on 8/22/17 are included in this report.

Receipt

The samples were received on 8/8/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) CA WET Citrate: Insufficient sample was available to perform the leaching procedure with the required 50g for the following sample: BMP- DUST 1-4 (COMPOSITE) (440-189811-6). The volume of leaching fluid was adjusted proportionally to maintain a 10:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Client Sample ID: BMP- DUST 1-4 (COMPOSITE)

Lab Sample ID: 440-189811-6

Date Collected: 08/08/17 12:20

Matrix: Solid

Date Received: 08/08/17 18:25

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.92		0.10	mg/L			08/29/17 11:11	20
Copper	0.84		0.20	mg/L			08/29/17 11:11	20

Method Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Client Sample ID: BMP- DUST 1-4 (COMPOSITE)

Lab Sample ID: 440-189811-6

Date Collected: 08/08/17 12:20

Matrix: Solid

Date Received: 08/08/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			20.07 g	200 mL	425752	08/26/17 12:51	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			426144	08/29/17 11:11	B1H	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-425752/1-A ^20

Matrix: Solid

Analysis Batch: 426144

Client Sample ID: Method Blank

Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10	mg/L			08/29/17 10:42	20
Copper	ND		0.20	mg/L			08/29/17 10:42	20

Lab Sample ID: LCS 440-425752/2-A ^20

Matrix: Solid

Analysis Batch: 426144

Client Sample ID: Lab Control Sample

Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.1		mg/L		101	80 - 120
Copper	20.0	20.9		mg/L		105	80 - 120

Lab Sample ID: 440-190493-A-1-E MS ^20

Matrix: Solid

Analysis Batch: 426144

Client Sample ID: Matrix Spike

Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		20.0	19.4		mg/L		97	75 - 125
Copper	ND		20.0	20.1		mg/L		100	75 - 125

Lab Sample ID: 440-190493-A-1-E MSD ^20

Matrix: Solid

Analysis Batch: 426144

Client Sample ID: Matrix Spike Duplicate

Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		20.0	19.6		mg/L		98	75 - 125	1	20
Copper	ND		20.0	20.3		mg/L		101	75 - 125	1	20

QC Association Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Metals

Leach Batch: 425752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	STLC Citrate	Solid	CA WET Citrate	
MB 440-425752/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-425752/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-190493-A-1-E MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-190493-A-1-E MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 426144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189811-6	BMP- DUST 1-4 (COMPOSITE)	STLC Citrate	Solid	6010B	425752
MB 440-425752/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	425752
LCS 440-425752/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	425752
440-190493-A-1-E MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	425752
440-190493-A-1-E MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	425752

Definitions/Glossary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Ramboll Environ US Corporation
Project/Site: SMMUSD - Summer 2017

TestAmerica Job ID: 440-189811-2

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-17
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18
Hawaii	State Program	9	N/A	01-29-18
Kansas	NELAP Secondary AB	7	E-10420	07-31-17 *
Nevada	State Program	9	CA015312018-1	07-31-18 *
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine

Mata, Patty

From: Amy Manion <AManion@Ramboll.com>
Sent: Tuesday, August 22, 2017 11:15 AM
To: Mata, Patty
Subject: FW: TestAmerica report files from 440-189811-1 SMMUSD - Summer 2017
Attachments: J189811-1 UDS Level 2 Report Final Report.pdf

-External Email-

Patty,

Please run the WET STLC test for chromium and copper for the sample in the attached report, "BMP-DUST 1-4 (COMPOSITE)." Standard TAT is OK.

Thanks,

Amy Manion, PG
Managing Consultant

D (213) 943-6323
M (978) 697-8285
AManion@ramboll.com

Ramboll Environ
350 S. Grand Avenue
Suite 2800
Los Angeles, CA 90071
www.ramboll-environ.com

RAMBOLL ENVIRON

From: Ted Bowie
Sent: Friday, August 18, 2017 9:27 AM
To: Amy Manion <AManion@Ramboll.com>
Cc: Yi Tian <ytian@ramboll.com>; Rebecca Case <rebeccacase@ramboll.com>
Subject: FW: TestAmerica report files from 440-189811-1 SMMUSD - Summer 2017

Amy - FYI

Ted Bowie, MS, PE, CIH
Senior Managing Consultant
D +1 415.796.1936
tbowie@ramboll.com

Ramboll Environ
201 California Street, Suite 1200
San Francisco, CA 94111 USA
www.ramboll-environ.com

RAMBOLL ENVIRON

Login Sample Receipt Checklist

Client: Ramboll Environ US Corporation

Job Number: 440-189811-2

Login Number: 189811

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Composite
Residual Chlorine Checked.	N/A	