

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

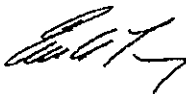
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-128380-1
Client Project/Site: Waukegan CCR

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
5/30/2017 5:45:32 PM

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

MWG13-15_61904

Comp. Ex. 228J

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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Job ID: 500-128380-1

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Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-128380-1**

Comments

No additional comments.

Receipt

The samples were received on 5/18/2017 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8° C, 3.0° C and 3.9° C.

Metals

Method(s) 6020, 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-387359. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method(s) 6020A: The continuing calibration verifications (CCV), at lines 53 and 58 in batch 500-387359, recovered above the upper control limit for Beryllium. The samples associated with these CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020A: The low level continuing calibration verification (CCVL), at line 42, associated with batch 500-387359 recovered above the upper control limit for Beryllium. The samples associated with this CCVL were non-detects for the affected analytes; therefore, the data have been reported.

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

General Chemistry

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater".

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-128380-1	MW-01	Water	05/15/17 13:39	05/18/17 16:15
500-128380-2	MW-02	Water	05/15/17 14:56	05/18/17 16:15
500-128380-3	MW-03	Water	05/16/17 10:44	05/18/17 16:15
500-128380-4	MW-04	Water	05/16/17 11:55	05/18/17 16:15
500-128380-5	MW-09	Water	05/16/17 16:10	05/18/17 16:15
500-128380-6	MW-11	Water	05/18/17 09:50	05/18/17 16:15
500-128380-7	MW-14	Water	05/18/17 11:15	05/18/17 16:15
500-128380-8	MW-16	Water	05/16/17 09:27	05/18/17 16:15
500-128380-9	Duplicate	Water	05/16/17 00:00	05/18/17 16:15

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TestAmerica Chicago

MWG13-15_61908
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-01

Lab Sample ID: 500-128380-1

Date Collected: 05/15/17 13:39

Matrix: Water

Date Received: 05/18/17 16:15

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/17 08:42	05/20/17 00:21	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 20:57	1
Arsenic	0.14		0.0010		mg/L		05/19/17 08:42	05/22/17 20:57	1
Barium	0.017		0.0025		mg/L		05/19/17 08:42	05/22/17 20:57	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:02	1
Boron	2.1		0.50		mg/L		05/19/17 08:42	05/25/17 19:40	10
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 20:57	1
Calcium	52		0.20		mg/L		05/19/17 08:42	05/22/17 20:57	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 20:57	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 20:57	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:02	1
Molybdenum	0.062		0.0050		mg/L		05/19/17 08:42	05/26/17 13:02	1
Selenium	0.0036		0.0025		mg/L		05/19/17 08:42	05/22/17 20:57	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:02	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:08	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			05/22/17 22:56	1
Chloride	59		2.0		mg/L			05/24/17 21:21	1
Fluoride	0.37		0.10		mg/L			05/20/17 17:07	1
Sulfate	330		50		mg/L			05/30/17 03:13	10

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MWG13-15_61909

5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-02

Lab Sample ID: 500-128380-2

Date Collected: 05/15/17 14:56

Matrix: Water

Date Received: 05/18/17 16:15

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Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/17 08:42	05/20/17 00:25	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:00	1
Arsenic	0.020		0.0010		mg/L		05/19/17 08:42	05/22/17 21:00	1
Barium	0.029		0.0025		mg/L		05/19/17 08:42	05/22/17 21:00	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:06	1
Boron	3.6		0.50		mg/L		05/19/17 08:42	05/25/17 19:44	10
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 21:00	1
Calcium	85		0.20		mg/L		05/19/17 08:42	05/22/17 21:00	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 21:00	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:00	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:06	1
Molybdenum	0.047		0.0050		mg/L		05/19/17 08:42	05/26/17 13:06	1
Selenium	0.023		0.0025		mg/L		05/19/17 08:42	05/22/17 21:00	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	640		10		mg/L			05/22/17 23:01	1
Chloride	48		2.0		mg/L			05/24/17 21:25	1
Fluoride	0.64		0.10		mg/L			05/20/17 17:10	1
Sulfate	320		50		mg/L			05/30/17 03:16	10

TestAmerica Chicago

MWG13-15_61910
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-03

Lab Sample ID: 500-128380-3

Date Collected: 05/16/17 10:44

Matrix: Water

Date Received: 05/18/17 16:15

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Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/17 08:42	05/20/17 00:29	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:04	1
Arsenic	0.0087		0.0010		mg/L		05/19/17 08:42	05/22/17 21:04	1
Barium	0.039		0.0025		mg/L		05/19/17 08:42	05/22/17 21:04	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:10	1
Boron	3.9		0.50		mg/L		05/19/17 08:42	05/25/17 19:48	10
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 21:04	1
Calcium	110		0.20		mg/L		05/19/17 08:42	05/22/17 21:04	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 21:04	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:04	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:10	1
Molybdenum	0.041		0.0050		mg/L		05/19/17 08:42	05/26/17 13:10	1
Selenium	0.014		0.0025		mg/L		05/19/17 08:42	05/22/17 21:04	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	820		10		mg/L			05/22/17 23:03	1
Chloride	61		2.0		mg/L			05/24/17 21:26	1
Fluoride	0.27		0.10		mg/L			05/20/17 17:13	1
Sulfate	320		100		mg/L			05/30/17 03:17	20

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MWG13-15_61911
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-04

Lab Sample ID: 500-128380-4

Date Collected: 05/16/17 11:55

Matrix: Water

Date Received: 05/18/17 16:15

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Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/17 08:42	05/20/17 00:33	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:08	1
Arsenic	0.024		0.0010		mg/L		05/19/17 08:42	05/22/17 21:08	1
Barium	0.072		0.0025		mg/L		05/19/17 08:42	05/22/17 21:08	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:14	1
Boron	2.5		0.50		mg/L		05/19/17 08:42	05/25/17 19:51	10
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 21:08	1
Calcium	170		0.20		mg/L		05/19/17 08:42	05/22/17 21:08	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 21:08	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:08	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:14	1
Molybdenum	0.017		0.0050		mg/L		05/19/17 08:42	05/26/17 13:14	1
Selenium	0.032		0.0025		mg/L		05/19/17 08:42	05/22/17 21:08	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			05/22/17 23:06	1
Chloride	29		2.0		mg/L			05/24/17 21:28	1
Fluoride	0.32		0.10		mg/L			05/20/17 17:21	1
Sulfate	400		100		mg/L			05/30/17 03:18	20

TestAmerica Chicago

MWG13-15_61912
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-09

Lab Sample ID: 500-128380-5

Date Collected: 05/16/17 16:10

Matrix: Water

Date Received: 05/18/17 16:15

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.045		0.010		mg/L		05/19/17 08:42	05/20/17 00:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:12	1
Arsenic	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:12	1
Barium	0.0094		0.0025		mg/L		05/19/17 08:42	05/22/17 21:12	1
Beryllium	<0.0010	A	0.0010		mg/L		05/19/17 08:42	05/26/17 13:17	1
Boron	27		5.0		mg/L		05/19/17 08:42	05/25/17 19:55	100
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 21:12	1
Calcium	160		0.20		mg/L		05/19/17 08:42	05/22/17 21:12	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 21:12	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:12	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:17	1
Molybdenum	0.51		0.0050		mg/L		05/19/17 08:42	05/26/17 13:17	1
Selenium	0.0085		0.0025		mg/L		05/19/17 08:42	05/22/17 21:12	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:17	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:14	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			05/22/17 23:08	1
Chloride	67		2.0		mg/L			05/24/17 22:06	1
Fluoride	0.29		0.10		mg/L			05/20/17 17:30	1
Sulfate	420		100		mg/L			05/30/17 03:19	20

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TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-11
Date Collected: 05/18/17 09:50
Date Received: 05/18/17 16:15

Lab Sample ID: 500-128380-6
Matrix: Water

6

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.036		0.010		mg/L		05/19/17 08:42	05/20/17 00:49	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:16	1
Arsenic	0.50		0.0010		mg/L		05/19/17 08:42	05/22/17 21:16	1
Barium	0.047		0.0025		mg/L		05/19/17 08:42	05/22/17 21:16	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:21	1
Boron	1.8		0.50		mg/L		05/19/17 08:42	05/25/17 19:59	10
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 21:16	1
Calcium	160		0.20		mg/L		05/19/17 08:42	05/22/17 21:16	1
Chromium	0.0056		0.0050		mg/L		05/19/17 08:42	05/22/17 21:16	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:16	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:21	1
Molybdenum	<0.0050		0.0050		mg/L		05/19/17 08:42	05/26/17 13:21	1
Selenium	<0.0025		0.0025		mg/L		05/19/17 08:42	05/22/17 21:16	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:21	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:15	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			05/22/17 23:11	1
Chloride	170		10		mg/L			05/24/17 21:29	5
Fluoride	0.12		0.10		mg/L			05/20/17 17:39	1
Sulfate	120		25		mg/L			05/30/17 03:22	5

TestAmerica Chicago

MWG13-15_61914
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-14

Lab Sample ID: 500-128380-7

Date Collected: 05/18/17 11:15

Matrix: Water

Date Received: 05/18/17 16:15

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		05/19/17 08:42	05/20/17 00:53	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0035		0.0030		mg/L		05/19/17 08:42	05/22/17 21:19	1
Arsenic	3.3		0.0010		mg/L		05/19/17 08:42	05/22/17 21:19	1
Barium	0.44		0.0025		mg/L		05/19/17 08:42	05/22/17 21:19	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:25	1
Boron	0.81		0.25		mg/L		05/19/17 08:42	05/25/17 20:03	5
Cadmium	0.0020		0.00050		mg/L		05/19/17 08:42	05/22/17 21:19	1
Calcium	120		0.20		mg/L		05/19/17 08:42	05/22/17 21:19	1
Chromium	4.8		0.0050		mg/L		05/19/17 08:42	05/22/17 21:19	1
Cobalt	0.0041		0.0010		mg/L		05/19/17 08:42	05/22/17 21:19	1
Lead	0.00054		0.00050		mg/L		05/19/17 08:42	05/26/17 13:25	1
Molybdenum	<0.0050		0.0050		mg/L		05/19/17 08:42	05/26/17 13:25	1
Selenium	<0.0025		0.0025		mg/L		05/19/17 08:42	05/22/17 21:19	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:25	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00043		0.00020		mg/L		05/22/17 12:45	05/23/17 12:17	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	590		10		mg/L			05/22/17 23:14	1
Chloride	130		10		mg/L			05/24/17 21:29	5
Fluoride	0.30		0.10		mg/L			05/20/17 17:43	1
Sulfate	70		20		mg/L			05/30/17 03:23	4

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TestAmerica Chicago

MWG13-15_61915
5/30/2017

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: MW-16

Lab Sample ID: 500-128380-8

Date Collected: 05/16/17 09:27

Matrix: Water

Date Received: 05/18/17 16:15

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Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.13		0.010		mg/L		05/19/17 08:42	05/20/17 00:57	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:23	1
Arsenic	0.043		0.0010		mg/L		05/19/17 08:42	05/22/17 21:23	1
Barium	0.045		0.0025		mg/L		05/19/17 08:42	05/22/17 21:23	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:29	1
Boron	2.6		0.50		mg/L		05/19/17 08:42	05/25/17 20:07	10
Cadmium	0.0043		0.00050		mg/L		05/19/17 08:42	05/22/17 21:23	1
Calcium	340		2.0		mg/L		05/19/17 08:42	05/26/17 13:40	10
Chromium	0.0076		0.0050		mg/L		05/19/17 08:42	05/22/17 21:23	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:23	1
Lead	0.00057		0.00050		mg/L		05/19/17 08:42	05/26/17 13:29	1
Molybdenum	0.016		0.0050		mg/L		05/19/17 08:42	05/26/17 13:29	1
Selenium	0.016		0.0025		mg/L		05/19/17 08:42	05/22/17 21:23	1
Thallium	0.0021		0.0020		mg/L		05/19/17 08:42	05/26/17 13:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			05/22/17 23:16	1
Chloride	130		10		mg/L			05/24/17 21:52	5
Fluoride	0.15		0.10		mg/L			05/20/17 17:46	1
Sulfate	760		250		mg/L			05/30/17 03:24	50

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Client Sample ID: Duplicate

Lab Sample ID: 500-128380-9

Date Collected: 05/16/17 00:00

Matrix: Water

Date Received: 05/18/17 16:15

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Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.14		0.010		mg/L		05/19/17 08:42	05/20/17 01:01	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 21:27	1
Arsenic	0.012		0.0010		mg/L		05/19/17 08:42	05/22/17 21:27	1
Barium	0.036		0.0025		mg/L		05/19/17 08:42	05/22/17 21:27	1
Beryllium	<0.0010	^	0.0010		mg/L		05/19/17 08:42	05/26/17 13:44	1
Boron	2.6		0.50		mg/L		05/19/17 08:42	05/25/17 20:11	10
Cadmium	0.0022		0.00050		mg/L		05/19/17 08:42	05/22/17 21:27	1
Calcium	330		2.0		mg/L		05/19/17 08:42	05/26/17 13:48	10
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 21:27	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 21:27	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 13:44	1
Molybdenum	0.011		0.0050		mg/L		05/19/17 08:42	05/26/17 13:44	1
Selenium	0.013		0.0025		mg/L		05/19/17 08:42	05/22/17 21:27	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 13:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			05/22/17 23:19	1
Chloride	130		10		mg/L			05/24/17 21:53	5
Fluoride	0.13		0.10		mg/L			05/20/17 17:49	1
Sulfate	730		250		mg/L			05/30/17 03:25	50

TestAmerica Chicago

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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)

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TestAmerica Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Metals

Prep Batch: 385928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total Recoverable	Water	3005A	
500-128380-2	MW-02	Total Recoverable	Water	3005A	
500-128380-3	MW-03	Total Recoverable	Water	3005A	
500-128380-4	MW-04	Total Recoverable	Water	3005A	
500-128380-5	MW-09	Total Recoverable	Water	3005A	
500-128380-6	MW-11	Total Recoverable	Water	3005A	
500-128380-7	MW-14	Total Recoverable	Water	3005A	
500-128380-8	MW-16	Total Recoverable	Water	3005A	
500-128380-9	Duplicate	Total Recoverable	Water	3005A	
MB 500-385928/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-385928/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 386109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total Recoverable	Water	6010C	385928
500-128380-2	MW-02	Total Recoverable	Water	6010C	385928
500-128380-3	MW-03	Total Recoverable	Water	6010C	385928
500-128380-4	MW-04	Total Recoverable	Water	6010C	385928
500-128380-5	MW-09	Total Recoverable	Water	6010C	385928
500-128380-6	MW-11	Total Recoverable	Water	6010C	385928
500-128380-7	MW-14	Total Recoverable	Water	6010C	385928
500-128380-8	MW-16	Total Recoverable	Water	6010C	385928
500-128380-9	Duplicate	Total Recoverable	Water	6010C	385928
MB 500-385928/1-A	Method Blank	Total Recoverable	Water	6010C	385928
LCS 500-385928/2-A	Lab Control Sample	Total Recoverable	Water	6010C	385928

Prep Batch: 386308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	7470A	
500-128380-2	MW-02	Total/NA	Water	7470A	
500-128380-3	MW-03	Total/NA	Water	7470A	
500-128380-4	MW-04	Total/NA	Water	7470A	
500-128380-5	MW-09	Total/NA	Water	7470A	
500-128380-6	MW-11	Total/NA	Water	7470A	
500-128380-7	MW-14	Total/NA	Water	7470A	
500-128380-8	MW-16	Total/NA	Water	7470A	
500-128380-9	Duplicate	Total/NA	Water	7470A	
MB 500-386308/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-386308/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 386443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total Recoverable	Water	6020A	385928
500-128380-2	MW-02	Total Recoverable	Water	6020A	385928
500-128380-3	MW-03	Total Recoverable	Water	6020A	385928
500-128380-4	MW-04	Total Recoverable	Water	6020A	385928
500-128380-5	MW-09	Total Recoverable	Water	6020A	385928
500-128380-6	MW-11	Total Recoverable	Water	6020A	385928
500-128380-7	MW-14	Total Recoverable	Water	6020A	385928
500-128380-8	MW-16	Total Recoverable	Water	6020A	385928
500-128380-9	Duplicate	Total Recoverable	Water	6020A	385928

TestAmerica Chicago

MWG13-15_61919
5/30/2017

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Metals (Continued)

Analysis Batch: 386443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-385928/1-A	Method Blank	Total Recoverable	Water	6020A	385928
LCS 500-385928/2-A	Lab Control Sample	Total Recoverable	Water	6020A	385928

Analysis Batch: 386478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	7470A	386308
500-128380-2	MW-02	Total/NA	Water	7470A	386308
500-128380-3	MW-03	Total/NA	Water	7470A	386308
500-128380-4	MW-04	Total/NA	Water	7470A	386308
500-128380-5	MW-09	Total/NA	Water	7470A	386308
500-128380-6	MW-11	Total/NA	Water	7470A	386308
500-128380-7	MW-14	Total/NA	Water	7470A	386308
500-128380-8	MW-16	Total/NA	Water	7470A	386308
500-128380-9	Duplicate	Total/NA	Water	7470A	386308
MB 500-386308/12-A	Method Blank	Total/NA	Water	7470A	386308
LCS 500-386308/13-A	Lab Control Sample	Total/NA	Water	7470A	386308

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Analysis Batch: 387010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total Recoverable	Water	6020A	385928
500-128380-2	MW-02	Total Recoverable	Water	6020A	385928
500-128380-3	MW-03	Total Recoverable	Water	6020A	385928
500-128380-4	MW-04	Total Recoverable	Water	6020A	385928
500-128380-5	MW-09	Total Recoverable	Water	6020A	385928
500-128380-6	MW-11	Total Recoverable	Water	6020A	385928
500-128380-7	MW-14	Total Recoverable	Water	6020A	385928
500-128380-8	MW-16	Total Recoverable	Water	6020A	385928
500-128380-9	Duplicate	Total Recoverable	Water	6020A	385928
MB 500-385928/1-A	Method Blank	Total Recoverable	Water	6020A	385928
LCS 500-385928/2-A	Lab Control Sample	Total Recoverable	Water	6020A	385928

Analysis Batch: 387359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total Recoverable	Water	6020A	385928
500-128380-2	MW-02	Total Recoverable	Water	6020A	385928
500-128380-3	MW-03	Total Recoverable	Water	6020A	385928
500-128380-4	MW-04	Total Recoverable	Water	6020A	385928
500-128380-5	MW-09	Total Recoverable	Water	6020A	385928
500-128380-6	MW-11	Total Recoverable	Water	6020A	385928
500-128380-7	MW-14	Total Recoverable	Water	6020A	385928
500-128380-8	MW-16	Total Recoverable	Water	6020A	385928
500-128380-8	MW-16	Total Recoverable	Water	6020A	385928
500-128380-9	Duplicate	Total Recoverable	Water	6020A	385928
500-128380-9	Duplicate	Total Recoverable	Water	6020A	385928
MB 500-385928/1-A	Method Blank	Total Recoverable	Water	6020A	385928
LCS 500-385928/2-A	Lab Control Sample	Total Recoverable	Water	6020A	385928

TestAmerica Chicago

MWG13-15_61920
5/30/2017

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

General Chemistry

Analysis Batch: 386238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	SM 4500 F C	
500-128380-2	MW-02	Total/NA	Water	SM 4500 F C	
500-128380-3	MW-03	Total/NA	Water	SM 4500 F C	
500-128380-4	MW-04	Total/NA	Water	SM 4500 F C	
500-128380-5	MW-09	Total/NA	Water	SM 4500 F C	
500-128380-6	MW-11	Total/NA	Water	SM 4500 F C	
500-128380-7	MW-14	Total/NA	Water	SM 4500 F C	
500-128380-8	MW-16	Total/NA	Water	SM 4500 F C	
500-128380-9	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-386238/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-386238/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-386238/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-386238/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-128380-4 MS	MW-04	Total/NA	Water	SM 4500 F C	
500-128380-4 MSD	MW-04	Total/NA	Water	SM 4500 F C	

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Analysis Batch: 386379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	SM 2540C	
500-128380-2	MW-02	Total/NA	Water	SM 2540C	
500-128380-3	MW-03	Total/NA	Water	SM 2540C	
500-128380-4	MW-04	Total/NA	Water	SM 2540C	
500-128380-5	MW-09	Total/NA	Water	SM 2540C	
500-128380-6	MW-11	Total/NA	Water	SM 2540C	
500-128380-7	MW-14	Total/NA	Water	SM 2540C	
500-128380-8	MW-16	Total/NA	Water	SM 2540C	
500-128380-9	Duplicate	Total/NA	Water	SM 2540C	
MB 500-386379/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-386379/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-128380-1 DU	MW-01	Total/NA	Water	SM 2540C	

Analysis Batch: 386753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-128380-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-128380-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-128380-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-128380-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-128380-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-128380-7	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-128380-8	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-128380-9	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-386753/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-386753/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-128380-3 MS	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-128380-3 MSD	MW-03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 387300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-128380-2	MW-02	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

General Chemistry (Continued)

Analysis Batch: 387300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128380-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-128380-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-128380-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-128380-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-128380-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-128380-8	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-128380-9	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-387300/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-387300/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-128380-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-128380-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	

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TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-385928/1-A Matrix: Water Analysis Batch: 386109						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/17 08:42	05/20/17 00:13	1

Lab Sample ID: LCS 500-385928/2-A Matrix: Water Analysis Batch: 386109						Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lithium	0.500	0.518		mg/L		104	80 - 120		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-385928/1-A Matrix: Water Analysis Batch: 386443						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/17 08:42	05/22/17 19:33	1
Arsenic	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 19:33	1
Barium	<0.0025		0.0025		mg/L		05/19/17 08:42	05/22/17 19:33	1
Cadmium	<0.00050		0.00050		mg/L		05/19/17 08:42	05/22/17 19:33	1
Calcium	<0.20		0.20		mg/L		05/19/17 08:42	05/22/17 19:33	1
Chromium	<0.0050		0.0050		mg/L		05/19/17 08:42	05/22/17 19:33	1
Cobalt	<0.0010		0.0010		mg/L		05/19/17 08:42	05/22/17 19:33	1
Selenium	<0.0025		0.0025		mg/L		05/19/17 08:42	05/22/17 19:33	1

Lab Sample ID: MB 500-385928/1-A Matrix: Water Analysis Batch: 387010						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/19/17 08:42	05/25/17 19:21	1

Lab Sample ID: MB 500-385928/1-A Matrix: Water Analysis Batch: 387359						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010	A	0.0010		mg/L		05/19/17 08:42	05/26/17 12:54	1
Lead	<0.00050		0.00050		mg/L		05/19/17 08:42	05/26/17 12:54	1
Molybdenum	<0.0050		0.0050		mg/L		05/19/17 08:42	05/26/17 12:54	1
Thallium	<0.0020		0.0020		mg/L		05/19/17 08:42	05/26/17 12:54	1

Lab Sample ID: LCS 500-385928/2-A Matrix: Water Analysis Batch: 386443						Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 385928			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	0.500	0.523		mg/L		105	80 - 120		
Arsenic	0.100	0.101		mg/L		101	80 - 120		

TestAmerica Chicago

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-385928/2-A Matrix: Water Analysis Batch: 386443			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 385928						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Barium	2.00	2.07		mg/L		103	80 - 120		
Cadmium	0.0500	0.0537		mg/L		107	80 - 120		
Calcium	10.0	11.5		mg/L		115	80 - 120		
Chromium	0.200	0.204		mg/L		102	80 - 120		
Cobalt	0.500	0.509		mg/L		102	80 - 120		
Selenium	0.100	0.103		mg/L		103	80 - 120		

Lab Sample ID: LCS 500-385928/2-A Matrix: Water Analysis Batch: 387010			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 385928						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Boron	1.00	1.00		mg/L		100	80 - 120		

Lab Sample ID: LCS 500-385928/2-A Matrix: Water Analysis Batch: 387359			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 385928						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium	0.0500	0.0539	^	mg/L		108	80 - 120		
Lead	0.100	0.108		mg/L		108	80 - 120		
Molybdenum	1.00	0.969		mg/L		97	80 - 120		
Thallium	0.100	0.108		mg/L		108	80 - 120		

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-386308/12-A Matrix: Water Analysis Batch: 386478			Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 386308						
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 11:53	1

Lab Sample ID: LCS 500-386308/13-A Matrix: Water Analysis Batch: 386478			Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 386308						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00200	0.00211		mg/L		105	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-386379/1 Matrix: Water Analysis Batch: 386379			Client Sample ID: Method Blank Prep Type: Total/NA						
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/22/17 22:25	1

TestAmerica Chicago

MWG13-15_61924
5/30/2017

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-386379/2			Client Sample ID: Lab Control Sample					
Matrix: Water			Prep Type: Total/NA					
Analysis Batch: 386379								
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Total Dissolved Solids	250	294		mg/L		118	80 - 120	

Lab Sample ID: 500-128380-1 DU			Client Sample ID: MW-01					
Matrix: Water			Prep Type: Total/NA					
Analysis Batch: 386379								
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	570		554		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-386753/4			Client Sample ID: Method Blank						
Matrix: Water			Prep Type: Total/NA						
Analysis Batch: 386753									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/24/17 21:14	1

Lab Sample ID: LCS 500-386753/5			Client Sample ID: Lab Control Sample					
Matrix: Water			Prep Type: Total/NA					
Analysis Batch: 386753								
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	50.0	51.7		mg/L		103	80 - 120	

Lab Sample ID: 500-128380-3 MS			Client Sample ID: MW-03						
Matrix: Water			Prep Type: Total/NA						
Analysis Batch: 386753									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	61		50.0	100		mg/L		78	75 - 125

Lab Sample ID: 500-128380-3 MSD			Client Sample ID: MW-03								
Matrix: Water			Prep Type: Total/NA								
Analysis Batch: 386753											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	61		50.0	101		mg/L		80	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-386238/3			Client Sample ID: Method Blank						
Matrix: Water			Prep Type: Total/NA						
Analysis Batch: 386238									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/20/17 15:49	1

TestAmerica Chicago

MWG13-15_61925
5/30/2017

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-386238/31
Matrix: Water
Analysis Batch: 386238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			05/20/17 17:16	1

Lab Sample ID: LCS 500-386238/32
Matrix: Water
Analysis Batch: 386238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Fluoride	10.0	9.76		mg/L		98	80 - 120

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Lab Sample ID: LCS 500-386238/4
Matrix: Water
Analysis Batch: 386238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Fluoride	10.0	9.76		mg/L		98	80 - 120

Lab Sample ID: 500-128380-4 MS
Matrix: Water
Analysis Batch: 386238

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Fluoride	0.32		5.00	5.04		mg/L		94	75 - 125

Lab Sample ID: 500-128380-4 MSD
Matrix: Water
Analysis Batch: 386238

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
Fluoride	0.32		5.00	5.17		mg/L		97	75 - 125	3	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-387300/3
Matrix: Water
Analysis Batch: 387300

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<5.0		5.0		mg/L			05/30/17 03:10	1

Lab Sample ID: LCS 500-387300/4
Matrix: Water
Analysis Batch: 387300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Sulfate	20.0	20.2		mg/L		101	80 - 120

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 500-128380-1 MS										Client Sample ID: MW-01	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 387300											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	330		400	741		mg/L		103	75 - 125		

Lab Sample ID: 500-128380-1 MSD										Client Sample ID: MW-01	
Matrix: Water										Prep Type: Total/NA	
Analysis Batch: 387300											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	330		400	741		mg/L		103	75 - 125	0	20

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chics
2417 Bond St.
University Park, IL 6
708-534-5200
Fax 708-534-5211 500-128380 COC



Report To:	Bill To:
Contact: Richard Gnat	Contact:
Company: KPRG and Associates, Inc	Company:
Address: 14665 W. Lisbon Rd., Suite 2B	Address:
Brookfield, WI 53005	
Phone: 262-781-0475	Phone:
Email: richardg@kprginc.com	Email:
	PO #:

Lab Lot # 500-128380

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	Samples Intact
Yes No	Yes No N/A
Temperature °C of Cooler	
2.9-3.0, 3.8-7.39, 2.7-2.8	
Within Hold Time	Preserv. Indicated
Yes No	Yes No N/A
pH Check OK	Res CL, Check OK
Yes No	Yes No N/A
Sample Labels and COC Agree	
Yes No	COC not present

Sampler Name:		COMPANY:		# / Cont.											
Ian John Howieson		KPRG & Associates Inc.		Volume											
Project Name:		TestAmerica Project Number:		Preserv.											
Quarterly- Waukegan CCR		50011597													
Project Location:		TAT		Matrix	# of Cont										
Waukegan, IL		15 Days													
Lab PM:		eric.lang@testamerica.com													
Laboratory ID	MSD	Client Sample ID	Sampling Date	Sampling Time		903.0, 904.0 Radium 226/228	6010C, 6020A, 7470A - Total Metals	2540C -TDS	4500_F_C - Fluoride	SMA4500_Cl_E Chloride	SMA4500_SO4_E - Sulfate	Additional Analyses / Remarks			
1		MW-01	5-15-17	13:39	W	5	X	X	X	X	X				
2		MW-02	5-15-17	14:56	W	5	X	X	X	X	X				
3		MW-03	5-16-17	10:44	W	5	X	X	X	X	X				
4		MW-04	5-16-17	11:55	W	5	X	X	X	X	X				
5		MW-09	5-16-17	16:10	W	5	X	X	X	X	X				
6		MW-11	5-18-17	09:50	W	5	X	X	X	X	X				
7		MW-14	5-18-17	11:15	W	5	X	X	X	X	X				
8		MW-16	5-16-17	09:27	W	5	X	X	X	X	X				
9		Duplicates	5-16-17		W	3	X	X	X	X	X				

RELINQUISHED BY: IJH	COMPANY: KPRG	DATE: 5-18-17	TIME: 16:15	RECEIVED BY: <i>Shirley Scott</i>	COMPANY: KPRG	DATE: 5/18/17	TIME: 16:15
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

Matrix Key WW = Wastewater SE = Sediment W = Water SO = Solid S = Soil DL = Drum Liquid SL = Sludge DS = Drum Solid MS = Miscellaneous L = Leachate OL = Oil W = Wipe A = Air O = _____	Container Key 1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 5. Widemouth Glass 6. Other	Preservative Key 1. HCl, Cool to 4° 2. H ₂ SO ₄ , Cool to 4° 3. HNO ₃ , Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. Cool to 4° 7. None	COMMENTS: Date Received: <u>5/18/17</u> Courier: Hand Delivered: <input type="checkbox"/> Bill of Lading:
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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-128380-1

Login Number: 128380

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	3.0,3.9,2.8
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

TestAmerica Job ID: 500-128380-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

